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1.2 @ngx-translate/http-loader 1.1.0

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import { HttpClientTestingModule, HttpTestingController } from '@angular/common/http/testing';
import { Injector } from '@angular/core';
import { TestBed } from '@angular/core/testing';
import { ContributorService } from './contributor.service';
import { ContributorGroup } from './contributors.model';

describe('ContributorService', () => {

  let injector: Injector;
  let contribService: ContributorService;
  let httpMock: HttpTestingController;

  beforeEach(() => {
    injector = TestBed.configureTestingModule({
      imports: [HttpClientTestingModule],
      providers: [
        ContributorService
      ]
    });
    contribService = injector.get<ContributorService>(ContributorService);
    httpMock = injector.get(HttpTestingController);
  });

  afterEach(() => httpMock.verify());

  it('should make a single connection to the server', () => {
    const req = httpMock.expectOne({});
  });
})
describe('#contributors', () => {
  let contribs: ContributorGroup[];
  let testData: any;

  beforeEach(() => {
    testData = getTestContribs();
    httpMock.expectOne({}).flush(testData);
    contribService.contributors.subscribe(results => contribs = results);
  });

  it('contributors observable should complete', () => {
    let completed = false;
    contribService.contributors.subscribe(undefined, undefined, () => completed = true);
    expect(completed).toBe(true, 'observable completed');
  });

  it('should reshape the contributor json to expected result', () => {
    const groupNames = contribs.map(g => g.name).join(',');
    expect(groupNames).toEqual('Angular,Collaborators,GDE');
  });

  it('should have expected "GDE" contribs in order', () => {
    const gde = contribs[2];
    const actualAngularNames = gde.contributors.map(l => l.name).join(',');
    const expectedAngularNames = testData.gkalpak.name + testData.kapunahelewong.name;
    expect(actualAngularNames).toEqual(expectedAngularNames);
  });

  it('should support including a contributor in multiple groups', () => {
    const contributor = testData.gkalpak;
    const matchedGroups = contribs
      .filter(group => group.contributors.includes(contributor))
      .map(group => group.name);
    expect(matchedGroups).toEqual(['Collaborators', 'GDE']);
  });

  it('should do WHAT(?) if the request fails');
});

function getTestContribs() {
  return {
    kapunahelewong: {  
      name: 'kapunahelewong',
      contributors: [{
        name: testData.kapunahelewong.name,
        avatar: testData.kapunahelewong.avatar
      }]
    },
    gkalpak: {
      name: 'testData.gkalpak.name',
      avatar: testData.gkalpak.avatar
    }
  }
}
name: 'Kapunahele Wong',
picture: 'kapunahelewong.jpg',
website: 'https://github.com/kapunahelewong',
twitter: 'kapunahele',
bio: 'Kapunahele is a front-end developer and contributor to angular.io',
groups: ['GDE']
},
misko: {
  name: 'Miko Hevery',
picture: 'misko.jpg',
twitter: 'mhevery',
website: 'http://misko.hevery.com',
bio: 'Miko Hevery is the creator of AngularJS framework.',
groups: ['Angular']
},
igor: {
  name: 'Igor Minar',
picture: 'igor-minar.jpg',
twitter: 'IgorMinar',
website: 'https://google.com/+IgorMinar',
bio: 'Igor is a software engineer at Angular.',
groups: ['Angular']
},
kara: {
  name: 'Kara Erickson',
picture: 'kara-erickson.jpg',
twitter: 'karaforthewin',
website: 'https://github.com/kara',
bio: 'Kara is a software engineer on the Angular team at Angular and a co-organizer of the Angular-SF Meetup.',
groups: ['Angular']
},
jeffcross: {
  name: 'Jeff Cross',
picture: 'jeff-cross.jpg',
twitter: 'jeffbcross',
website: 'https://twitter.com/jeffbcross',
bio: 'Jeff was one of the earliest core team members on AngularJS.',
groups: ['Collaborators']
},
naoimi: {
  name: 'Naomi Black',
picture: 'naomi.jpg',
twitter: 'naomitraveller',
website: 'http://google.com/+NaomiBlack',
bio: 'Naomi is Angular\s TPM generalist and jack-of-all-trades.',
groups: ['Angular']
},
gkalpak: {
import { NgModule, Type } from '@angular/core';
import { CommonModule } from '@angular/common';
import { MatIconModule } from '@angular/material/icon';
import { ContributorListComponent } from './contributor-list.component';
import { ContributorService } from './contributor.service';
import { ContributorComponent } from './contributor.component';
import { WithCustomElementComponent } from '../element-registry';

@NgModule({
  imports: [ CommonModule, MatIconModule ],
  declarations: [ ContributorListComponent, ContributorComponent ],
  entryComponents: [ ContributorListComponent ],
  providers: [ ContributorService ]
})
export class ContributorListModule implements WithCustomElementComponent {
  customElementComponent: Type<any> = ContributorListComponent;
}

import { Component, OnInit } from '@angular/core';
import { ContributorGroup } from './contributors.model';
import { ContributorService } from './contributor.service';
import { LocationService } from 'app/shared/location.service';

@Component({
  selector: `aio-contributor-list`,
  template: `
    <div class="flex-center group-buttons">
      <a *ngFor="let name of groupNames"
        [class.selected]="name == selectedGroup.name"
        class="button mat-button filter-button"
        (click)="selectGroup(name)">
        {{name}}
      </a>
    </div>
    <section *ngIf="selectedGroup" class="grid-fluid">
      <div class="contributor-group">
        <aio-contributor *ngFor="let person of selectedGroup.contributors" [person]="person"></aio-contributor>
      </div>
    </section>
  
  <div class="flex-center group-buttons">
    <a *ngFor="let name of groupNames"
      [class.selected]="name == selectedGroup.name"
      class="button mat-button filter-button"
      (click)="selectGroup(name)">
      {{name}}
    </a>
  </div>
  <section *ngIf="selectedGroup" class="grid-fluid">
    <div class="contributor-group">
      <aio-contributor *ngFor="let person of selectedGroup.contributors" [person]="person"></aio-contributor>
    </div>
  </section>
})
export class ContributorListComponent implements OnInit {
  private groups: ContributorGroup[];
  groupNames: string[];

selectedGroup: ContributorGroup;

constructor(
    private contributorService: ContributorService,
    private locationService: LocationService) {
}

ngOnInit() {
    const groupName = this.locationService.search()['group'] || '';
    // no need to unsubscribe because `contributors` completes
    this.contributorService.contributors
        .subscribe(grps => {
            this.groups = grps;
            this.groupNames = grps.map(g => g.name);
            this.selectGroup(groupName);
        });
}

selectGroup(name: string) {
    name = name.toLowerCase();
    this.selectedGroup = this.groups.find(g => g.name.toLowerCase() === name) || this.groups[0];
    this.locationService.setSearch('', {group: this.selectedGroup.name});
}

import { Injectable } from '@angular/core';
import { HttpClient } from '@angular/common/http';
import { ConnectableObservable, Observable } from 'rxjs';
import { map, publishLast } from 'rxjs/operators';
import { Contributor, ContributorGroup } from './contributors.model';

// TODO(andrewjs): Look into changing this so that we don't import the service just to get the const
import { CONTENT_URL_PREFIX } from 'app/documents/document.service';

const contributorsPath = CONTENT_URL_PREFIX + 'contributors.json';
const knownGroups = ['Angular', 'Collaborators', 'GDE'];

@Injectable()
export class ContributorService {
    contributors: Observable<ContributorGroup[]>;

    constructor(private http: HttpClient) {
        this.contributors = this.getContributors();
    }

    private getContributors() {
        const contributors = this.http.get<{{key: string}: Contributor}>(contributorsPath).pipe(
            // Create group map
map(contribs => {
  const contribMap: { [name: string]: Contributor[]} = {};
  Object.keys(contribs).forEach(key => {
    const contributor = contribs[key];
    contributor.groups.forEach(group => {
      const contribGroup = contribMap[group] || (contribMap[group] = []);
      contribGroup.push(contributor);
    });
  });
  return contribMap;
});

// Flatten group map into sorted group array of sorted contributors
map(cmap => {
  return Object.keys(cmap).map(key => {
    const order = knownGroups.indexOf(key);
    return {
      name: key,
      order: order === -1 ? knownGroups.length : order,
      contributors: cmap[key].sort(compareContributors)
    } as ContributorGroup;
  }).sort(compareGroups);
}),
publishLast(),

(Contributors as ConnectableObservable<ContributorGroup[]>).connect();
return contributors;
}

function compareContributors(l: Contributor, r: Contributor) {
  return l.name.toUpperCase() > r.name.toUpperCase() ? 1 : -1;
}

function compareGroups(l: ContributorGroup, r: ContributorGroup) {
  return l.order === r.order ?
    (l.name > r.name ? 1 : -1) :
    l.order > r.order ? 1 : -1;
}

import { ReflectiveInjector } from '@angular/core';

import { of } from 'rxjs';

import { ContributorGroup } from '../contributors.model';
import { ContributorListComponent } from './contributor-list.component';
import { ContributorService } from './contributor.service';
import { LocationService } from 'app/shared/location.service';

// Testing the component class behaviors, independent of its template
// Let e2e tests verify how it displays.
describe('ContributorListComponent', () => {

  let component: ContributorListComponent;
  let injector: ReflectiveInjector;
  let contributorService: TestContributorService;
  let locationService: TestLocationService;
  let contributorGroups: ContributorGroup[];

  beforeEach(() => {
    injector = ReflectiveInjector.resolveAndCreate(
      [ContributorListComponent,
        {provide: ContributorService, useClass: TestContributorService },
        {provide: LocationService, useClass: TestLocationService }
      ]);
    locationService = injector.get(LocationService);
    contributorService = injector.get(ContributorService);
    contributorGroups = contributorService.testContributors;
  });

  it('should select the first group when no query string', () => {
    component = getComponent();
    expect(component.selectedGroup).toBe(contributorGroups[0]);
  });

  it('should select the first group when query string w/o "group" property', () => {
    locationService.searchResult = { foo: 'GDE' };
    component = getComponent();
    expect(component.selectedGroup).toBe(contributorGroups[0]);
  });

  it('should select the first group when query group not found', () => {
    locationService.searchResult = { group: 'foo' };
    component = getComponent();
    expect(component.selectedGroup).toBe(contributorGroups[0]);
  });

  it('should select the GDE group when query group is "GDE"', () => {
    locationService.searchResult = { group: 'GDE' };
    component = getComponent();
    expect(component.selectedGroup).toBe(contributorGroups[1]);
  });
it('should select the GDE group when query group is "gde" (case insensitive)', () => {
    locationService.searchResult = { group: 'gde' }
    component = getComponent();
    expect(component.selectedGroup).toBe(contributorGroups[1]);
});

it('should set the query to the "GDE" group when user selects "GDE"', () => {
    component = getComponent();
    component.selectGroup('GDE');
    expect(locationService.searchResult['group']).toBe('GDE');
});

it('should set the query to the first group when user selects unknown name', () => {
    component = getComponent();
    component.selectGroup('GDE'); // a legit group that isn't the first
    component.selectGroup('foo'); // not a legit group name
    expect(locationService.searchResult['group']).toBe('Angular');
});

///// Test Helpers /////
function getComponent(): ContributorListComponent {
    const comp = injector.get(ContributorListComponent);
    comp.ngOnInit();
    return comp;
}

interface SearchResult { [index: string]: string; }

class TestLocationService {
    searchResult: SearchResult = {};
    search = jasmine.createSpy('search').and.callFake(() => this.searchResult);
    setSearch = jasmine.createSpy('setSearch').
        and.callFake((label: string, result: SearchResult) => {
            this.searchResult = result;
        });
}

class TestContributorService {
    testContributors = getTestData();
    contributors = of(this.testContributors);
}

function getTestData(): ContributorGroup[] {
    return [
        // Not interested in the contributors data in these tests
        { name: 'Angular', order: 0, contributors: [] },
    ];
}
import { Component, Input } from '@angular/core';
import { Contributor } from './contributors.model';
import { CONTENT_URL_PREFIX } from 'app/documents/document.service';

@Component({
    selector: 'aio-contributor',
    template: `'
    <div [ngClass]='{ 'flipped': person.isFlipped }' class="contributor-card">
        <div class="card-front" (click)="flipCard(person)">
            <h3>{{person.name}}</h3>
            <div class="contributor-image" [style.background-image]="'url('+pictureBase+(person.picture || noPicture)+')'">
                <div class="contributor-info">
                    <a *ngIf="person.bio" mat-button class="info-item">
                        View Bio
                    </a>
                    <a *ngIf="person.twitter" mat-icon-button class="info-item icon"
                        href="https://twitter.com/{{person.twitter}}" target="_blank" (click)="$event.stopPropagation()">
                        <mat-icon svgIcon="logos:twitter"></mat-icon>
                    </a>
                    <a *ngIf="person.website" mat-icon-button class="info-item icon"
                        href="{{person.website}}" target="_blank" (click)="$event.stopPropagation()">
                        <mat-icon class="link-icon">link</mat-icon>
                    </a>
                </div>
            </div>
        </div>
        <div class="card-back" *ngIf="person.isFlipped" (click)="flipCard(person)">
            <h3>{{person.name}}</h3>
            <p class="contributor-bio">{{person.bio}}</p>
        </div>
    </div>
    `
})
export class ContributorComponent {
    @Input() person: Contributor;
    noPicture = '_no-one.png';
pictureBase = CONTENT_URL_PREFIX + 'images/bios/';

    flipCard(person: Contributor) {
        // code
    }
}
person.isFlipped = !person.isFlipped;
}
}

#!/usr/bin/env node

// Imports
const {existsSync, readFileSync} = require('fs');
const {join, resolve} = require('path');

// Constants
const CONTENT_DIR = resolve(__dirname, '../../content');
const IMAGES_DIR = join(CONTENT_DIR, 'images/bios');
const CONTRIBUTORS_PATH = join(CONTENT_DIR, 'marketing/contributors.json');

// Run
_main();

// Functions - Definitions
function _main() {
const contributors = JSON.parse(readFileSync(CONTRIBUTORS_PATH, 'utf8'));
const expectedImages = Object.keys(contributors)
  .filter(key => !!contributors[key].picture)
  .map(key => join(IMAGES_DIR, contributors[key].picture));
const missingImages = expectedImages.filter(path => !existsSync(path));

if (missingImages.length > 0) {
  throw new Error(
    'The following pictures are referenced in contributors.json but do not exist:
    ' + missingImages.map(path => `
      - ${path}`).join(''));
}
}

# Produces a GraphViz Dot file from the data in the contributors.json file.
# Documentation for this syntax at https://stedolan.github.io/jq/manual
to_entries
| map(select(
  (.value.groups | index("Angular")) or
  (.value.groups | index("Collaborators")))))
| map(.value |= {
  name: .name,
  lead: (.lead // .mentor // ""),
  fillcolor: (if .groups | index("Collaborators") then "aquamarine" else "beige" end),
})
| map("
  '${.key|tojson} [ label="${.value.name|tojson} fillcolor=\"${.value.fillcolor|tojson} style=filled \" ]",
  (if .value.lead != "" then "\${.key|tojson} -> '${.value.lead|tojson}" else "\" end)
)")
| []
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{  
  "mhevery": {  
    "name": "Miko Hevery",  
    "picture": "misko.jpg",  
    "twitter": "mhevery",  
    "website": "http://misko.hevery.com",  
    "bio": "Miko Hevery is the creator of AngularJS framework. He has passion for making complex things simple. He currently works at Google, but has previously worked at Adobe, Sun Microsystems, Intel, and Xerox, where he became an expert in building web applications in web related technologies such as Java, JavaScript, Flex and ActionScript.",  
    "groups": ["Angular"],  
    "lead": "kara"  
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  "igorminar": {  
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    "picture": "igor-minar.jpg",  
    "twitter": "IgorMinar",  
    "website": "https://google.com/+IgorMinar",  
    "bio": "Igor is a software engineer at Google. He is a lead on the Angular project, practitioner of test driven development, open source enthusiast, hacker. In his free time, Igor enjoys spending time with his wife and two kids, doing outdoor activities (including but not limited to sports, gardening and building retaining walls).",  
    "groups": ["Angular"],  
    "lead": "bradlygreen"  
  },  
  "bradlygreen": {

Brad Green works at Google as an engineering director. Brad manages the Google Sales Platform suite of projects as well as the AngularJS framework. Prior to Google, Brad worked on the early mobile web at AvantGo, founded and sold startups, and spent a few hard years toiling as a caterer. Brad's first job out of school was as lackey to Steve Jobs at NeXT Computer writing demo software and designing his slide presentations. Brad enjoys throwing dinner parties with his wife Heather and putting on plays with his children.

Angular Material Team Lead. FE Engineer @ Google specializing in AngularJS, component design, and the cleanest of code.

AngularJS for JS Team Lead. Pete has been working on the core team since 2012 and became the team lead for the AngularJS for JS branch in November 2014. He has co-authored a book on AngularJS and regularly talks about and teaches Angular.

Stephen is a Developer Advocate working on the Angular team. Before joining Google, he was a Google Expert. Stephen loves to help enterprises use technology more effectively.

Rob is a Developer Advocate on the Angular team at Google. He's the Angular team's resident reactive
programming geek and founded the Reactive Extensions for Angular project, ngrx."
"groups": ["Angular"],
"lead": "stephenfluin"
},
"rkirov": {
"name": "Rado Kirov",
"picture": "rado.jpg",
"twitter": "radokirov",
"website": "https://plus.sandbox.google.com/+RadoslavKirov",
"bio": "Rado has been on the Angular Core team since Summer 2014. Before Angular, he worked on the Adsense serving stack, responsible for serving billions of ads daily. Being passionate about open source, he made contributions to Angular as a Google-20% project, before making the fulltime jump. He is a recovering academic; ask him about error-correcting codes from algebraic curves (or don't).",
"groups": ["Angular"],
"lead": "mprobst"
},
"alexeagle": {
"name": "Alex Eagle",
"picture": "alex-eagle.jpg",
"twitter": "jakeherringbone",
"website": "http://google.com/+alexeagle",
"bio": "Alex works on language tooling for JavaScript and TypeScript. Previously Alex spent five years in Google's developer testing tools. He has developed systems including Google's continuous integration service, capturing build&test failures, and explaining them to developers. Before Google, Alex worked at startups including Opower, and consulted for large government IT. In his 20% time, he created the Error-Prone static analysis tool, which detects common Java programming mistakes and reports them as compile errors."
"groups": ["Angular"],
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"alan-agius4": {
"name": "Alan Agius",
"groups": ["Angular"],
"lead": "alexeagle",
"picture": "alan-agius4.jpg",
"bio": "Angular CLI Member, Loves TypeScript, Build Tools, Food, Beer & Coffee:)"
}
"gregmagolan": {
  "name": "Greg Magolan",
  "groups": ["Angular"],
  "lead": "alexeagle",
  "picture": "gregmagolan.jpg",
  "bio": "Building great software with Angular and Node.js."
},
"mprobst": {
  "name": "Martin Probst",
  "picture": "martin-probst.jpg",
  "twitter": "martin_probst",
  "website": "http://probst.io",
  "bio": "Martin is a software engineer at Google in the AngularJS team. He holds a MSc in Software Engineering from HPI in Potsdam, Germany. Before joining the AngularJS team at Google, he worked at a database startup in the Netherlands, at EMC, at SAP, and as a freelancer. In his free time, he likes to cook and sail, not necessarily at the same time.",
  "groups": ["Angular"],
  "lead": "bradlygreen"
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"alxhub": {
  "name": "Alex Rickabaugh",
  "picture": "alex-rickabaugh.jpg",
  "twitter": "synalx",
  "website": "https://plus.google.com/+AlexRickabaugh/about",
  "bio": "Core team member working to optimize the Angular platform for the next generation of applications, including mobile. Before joining the Angular team, Alex worked in the Google sales organization where he helped build the first large Angular application within Google."
},
"matsko": {
  "name": "Matias Niemela",
  "picture": "matias.jpg",
  "twitter": "yearofmoo",
  "website": "http://yearofmoo.com",
  "bio": "Matias Niemela is a fullstack web developer who has been programming & building websites for over 10 years, and a core team member of AngularJS for two years. In the spring of 2015 Matias joined Angular full time at Google. In his free time Matias loves to build complex things and is always up for public speaking, travelling and tweaking his current Vim setup."
},
"hansl": {
  "name": "Hans Larsen",
  "picture": "hansl.jpg",
  "twitter": "hanslatwork",
  "website": "http://www.codingatwork.com/",
  "bio": "Hans is a software engineer at Google on the Angular team and was previously at Slack. He works
everyday to help make it easier for everyone to create beautiful, consistent web applications using Angular, using
Material Design components and the CLI tool.

"groups": ["Angular"],
"lead": "alexeagle"
],
"kara": {

"name": "Kara Erickson",
"picture": "kara-erickson.jpg",
"twitter": "karaforthewin",
"website": "https://github.com/kara",
"bio": "Kara is a software engineer on the Angular team at Google and a co-organizer of the Angular-SF Meetup. Prior to Google, she helped build UI components in Angular for guest management systems at OpenTable. She enjoys snacking indiscriminately and probably other things too.",
"groups": ["Angular"],
"lead": "igorminar"
},
"vikerman": {

"name": "Vikram Subramanian",
"picture": "vikram.jpg",
"twitter": "vikerman",
"bio": "Vikram is a Software Engineer on the Angular team focused on Engineering Productivity. That means he makes sure people on the team can move fast and not break things. Vikram enjoys doing Yoga and going on walks with his daughter.",
"groups": ["Angular"],
"lead": "alexeagle"
},
"pkozlowski-opensource": {

"name": "Pawel Kozlowski",
"picture": "pawel.jpg",
"twitter": "pkozlowski_os",
"bio": "Open source hacker, AngularJS book author, AngularUI lead developer. Pawel is a software-development addict who believes in free, open source software. He is a core contributor to the AngularJS framework, AngularUI, Karma-runner and several other projects. He is the co-author of the "Mastering Web Application Development with AngularJS" book. When not coding, Pawel can be spotted speaking at various software development conferences.",
"groups": ["Angular"],
"lead": "kara"
},
"devversion": {

"name": "Paul Gschwendtner",
"picture": "devversion.jpg",
"twitter": "DevVersion",
"website": "https://github.com/DevVersion",
"bio": "Paul is a 17-year-old developer living in Germany. While he attends school, Paul works as a core team member on Angular Material. Paul focuses on tooling and building components for Angular.",
"groups": ["Angular"],
"lead": "kara"
},
"EladBezalel": {
"name": "Elad Bezalel",
"picture": "eladbezalel.jpg",
"website": "https://github.com/EladBezalel",
"bio": "Elad is a fullstack developer with a very strong love for design. Since 8 years old, he's been designing in Photoshop and later on fell in love with programing. This strong bond between design and computer programming gave birth to a new kind of love. And he is currently doing the combination of both, as a core member of the ngMaterial project.,”
"groups": ["GDE"],
},
"marclaval": {
"name": "Marc Laval",
"picture": "marclaval.jpg",
"twitter": "marclaval",
"website": "https://github.com/mlaval",
"bio": "Marc is a manager at Amadeus where he leads the team in charge of developing and recommending UI frameworks for the company. He is also an open source developer and a contributor to Angular.”,
"groups": ["Angular"],
"lead": "kara"
},
"wardbell": {
"name": "Ward Bell",
"picture": "wardbell.jpg",
"website": "https://github.com/wardbell",
"twitter": "wardbell",
"bio": "Ward is an all-around developer with JavaScript, Node.js, and .net chops. He's a frequent conference speaker and podcaster, trainer, Google Developer Expert for Angular, Microsoft MVP, and PluralSight author. He is also president of IdeaBlade, an enterprise software consulting firm and the makers of breeze.js. He would like to get more sleep and spend more time in the mountains.”,
"groups": ["GDE"],
"lead": "petebacondarwin"
},
"Narretz": {
"name": "Martin Staffa",
"picture": "martinstaffa.jpg",
"twitter": "Narretz",
"bio": "Martin is an English major turned web developer who loves frontend stuff. He's been part of the AngularJS team since 2014. If you can't find him roaming the Github issue queues, he's probably out with his camera somewhere.”,
"groups": ["Angular"],
"lead": "petebacondarwin"
},
"filipesilva": {
"name": "Filipe Silva",
"picture": "filipe-silva.jpg",
"twitter": "filipematossilv",
"website": "http://github.com/filipesilva",
"bio": "Filipe is a passion-driven developer that always strives for the most elegant solution for each problem. He is currently an author for Angular.io, a core contributor for Angular-CLI and senior front end engineer at KonnectAgain. When not busy going through PRs, you can find him scouring reddit for new dinner recipes to cook
or enjoying a craft beer in Dublin.

Andrew Seguin

Andrew is an engineer on the Angular Material team working on bringing material components to the world. When he's not obsessing over pixels and design, he is probably off somewhere having adventures with his wife and daughters.

Kristiyan Kostadinov

Kristiyan is a front-end developer, passionate open-source contributor and a core team member on Angular Material.

George is a Software Engineer with a passion for chess, robotics and automating stuff. He has a strong need to know how things work (so if you already know, he'd love to have a talk with you). He has been a member of the AngularJS team since 2014. When not doing geeky stuff, he is probably trying to convince his wife and kids to apply programming principles in real life. (Or is it the other way around?)

Miles Malerba

Miles is a software engineer on the Angular Material team at Google. In addition to Javascripting he enjoys eating food and ogling cute puppies.

Jason Aden

Jason is a software engineer at Google on the Angular Core team. He is enthusiastic about Angular and application development in the modern age. In his free time Jason enjoys spending time with his wife and four
children and doing outdoor activities (hiking, fishing, snowboarding, etc.).",
"groups": ["Angular"],
"lead": "igorminar"
},
"jeffwhelpley": {

"name": "Jeff Whelpley",
"picture": "jeffwhelpley.jpg",
"twitter": "jeffwhelpley",
"website": "https://medium.com/@jeffwhelpley",
"bio": "Jeff Whelpley is a Google Developer Expert and the CTO of GetHuman. He is the co-organizer of the Angular Boston meetup group, co-creator of Angular Universal, former host of AngularAir and frequent speaker at Angular events.",
"groups": ["GDE"]
},
"pascalprecht": {

"name": "Pascal Precht",
"picture": "pascalprecht.jpg",
"website": "https://twitter.com/PascalPrecht",
"bio": "Pascal is a software engineer, author and Google Developer Expert for the Angular team. He loves contributing to open source and is the creator of the popular angular-translate module. In his spare time hes fiddling with EDM production.",
"groups": ["GDE"]
},
"deborah": {

"name": "Deborah Kurata",
"picture": "deborah.jpg",
"twitter": "deborahkurata",
"website": "http://blogs.msmvps.com/deborahk/",
"bio": "Deborah is a software developer, author, and Google Developer Expert. She is author of several Pluralsight courses including: 'Angular 2: Getting Started' and Angular Routing",
"groups": ["Collaborators", "GDE"],
"mentor": "kara"
},
"alyssa": {

"name": "Alyssa Nicoll",
"picture": "mickey_mouse.jpg",
"twitter": "alyssanicoll",
"website": "alyssa.io",
"bio": "I am an energetic, ber passionate GDE and Web Dev. I have some Front-End and Angular courses on Egghead.io and Code School. I love to learn new things and share them with others. I Scuba Dive and have a toothless dog named 'Gummy'. My DM is always open, come talk sometime.",
"groups": ["GDE"]
},
"ralph": {

"name": "Ralph Wang",
"picture": "ralph.jpg",
"twitter": "ralph_wang_gde",
"bio": "Ralph(Zhicheng Wang) is a senior consultant at ThoughtWorks and also a GDE. He is a technology
enthusiast and he is a passionate advocate of 'Simplicity, Professionalism and Sharing'. In his eighteen years of R&D career, he worked as tester, R&D engineer, project manager, product manager and CTO. He is immersed in the excitement of the arrival of the baby.

"groups": ["GDE"]
}
"manekinekko": {
  "name": "Wassim Chegham",
  "picture": "wassim.jpg",
  "twitter": "manekinekko",
  "website": "https://medium.com/@wassimchegham",
  "bio": "Wassim (aka manekinekko on Twitter/Github) is a Developer Advocate at SFEIR, in Web technologies (Angular, Polymer, PWA, Web Components...). He is also a Developer Expert in Web technologies nominated by Google. He enjoys writing technical articles, meeting developers at events, speaking at conferences and contributing to open source projects. Wassim loves the Web Platform and works hard to move it forward."
}
"groups": ["Angular"],
"mentor": "filipesilva"
}
"chrisnoring": {
  "name": "Christoffer Noring",
  "picture": "chrisnoring.jpg",
  "twitter": "chris_noring",
  "website": "softchris.github.io",
  "bio": "Chris is a Full Stack Developer at McKinsey. A Google Developer Expert in Web Technologies and Angular. He is also a Nativescript Developer Expert. He is one of the organizers of the Angular conference ngVikings and an author of the book RxJS 5 Ultimate",
  "groups": ["GDE"]
}
"jorgeucano": {
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  "twitter": "jorgeucano",
  "website": "https://medium.com/@jorgeucano",
  "bio": "After more than 10 years working in the tech industry, Jorge is a full stack developer with focus on JavaScript technologies. Today, Jorge is working at Hero Devs using Angular / RxJS / Firebase as well as other technologies. He delivered several courses and talks as well as write some tech articles on these subjects. Because of that, he was recognised as a Google Developer Expert in Angular & web technologies and Nativescript Developer Expert."
}
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  "website": "https://ultimateangular.com",
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}
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  "picture": "michael-hladky.jpg",
  "twitter": "Michael_Hladky",
  "website": "https://github.com/BioPhoton",
  "bio": "Michael is a self employed trainer, consultant and developer with the focus on Angular, and located in Vienna, Austria. He gives workshops on Angular, RxJS and Ionic. As Google Developer Expert, founder of Angular-Austria-Association and Angular-Vienna meetup, and speaker he is an active part of the community."
  "groups": ["GDE"]
},
"michaelprentice": {
  "name": "Michael Prentice",
  "picture": "michaelprentice.jpg",
  "twitter": "splaktar",
  "website": "https://www.DevIntent.com",
  "bio": "Lead for AngularJS Material. Owner and consultant at DevIntent. Ex-Angular GDE. Founder of the Google Developers Group (GDG) community on the Space Coast of Florida, USA."
  "groups": ["Angular"],
  "lead": "jelbourn"
},
"manfredsteyer": {
  "name": "Manfred Steyer",
  "picture": "steyer.jpg",
  "twitter": "ManfredSteyer",
  "website": "https://www.softwarearchitekt.at",
  "bio": "Trainer and Consultant with focus on Angular. Writes for O'Reilly, the German Java Magazine and Heise. Regularly speaks at conferences."
  "mentor": "mgechev",
  "groups": ["GDE", "Collaborators"]
},
"maximsalnikov": {
  "name": "Maxim Salnikov",
  "picture": "maximsalnikov.jpg",
  "twitter": "webmaxru",
  "website": "https://medium.com/@webmaxru",
  "bio": "Oslo-based web front-end engineer, a Google Developer Expert in Angular, Web technologies and IoT. Active public speaker & trainer for the developer events. Leader of Norways largest meetups dedicated to web front-end and mobile development. Founder of ngVikings and Mobile Era conferences. Progressive Web Apps advocate."
  "groups": ["GDE"]
},
"jeremywilken": {
  "name": "Jeremy Wilken",
  "picture": "jeremywilken.jpg",
  "twitter": "gnomeontherun",
  "website": "https://gnomeontherun.com",
  "bio": "Based in Austin Texas, Jeremy is an application architect and homebrewer. He is a Google Developer Expert in Web Technologies and Angular, with a focus on speaking and training and author of Angular in Action and Ionic in Action."
"groups": ["GDE"],
"mgechev": {
  "name": "Minko Gechev",
  "picture": "minko.jpg",
  "twitter": "mgechev",
  "website": "http://blog.mgechev.com",
  "bio": "Software engineer who enjoys theoretical computer science and its practical applications. Speaker, author of the book 'Switching to Angular', codelyzer, Guess.js, and the Go linter revive. Working for faster and more reliable software.",
  "groups": ["Angular"],
  "lead": "alexeagle"
},
"urish": {
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  "twitter": "UriShaked",
  "website": "https://urish.org",
  "bio": "Uri Shaked is a Google Developer Expert for Web Technologies. He regularly writes about Web and IoT related technologies in his medium blog, and speaks about these topics in conferences and meetup around the world. Among his interests are reverse engineering, hardware hacking, building 3d-printed robots and games, playing music and Salsa dancing.",
  "groups": ["GDE"],
},
"eusoj": {
  "name": "Josue Gutierrez",
  "picture": "josue.jpg",
  "twitter": "eusoj",
  "website": "http://techtam.io",
  "bio": "Based in Mexico, Josue has been web developer since the last 10 years, he is part of the Google Developer Expert Program, passionate about teaching and building communities",
  "groups": ["GDE"],
},
"SanderElias": {
  "name": "Sander Elias",
  "picture": "sanderelias.jpg",
  "twitter": "esoSanderElias",
  "website": "https://sanderelias.nl",
  "bio": "Sander is a versed developer with over 4 decades of practice under his belt. He is also an Google Developer Expert for web, specializing in Angular. Organizer of meetups and conferences. Helping out others wherever he can. When he is not breathing code, he is fiddling around with IOT, photography, science and anything that might vaguely is gadget-like! Thinks he a master of the grill, but in reality you probably don't get a food-poisoning ;) Also, and actually the most important thing to him, he is a father of 4, and has the most patient girlfriend in the universe.",
  "groups": ["GDE"],
},
"filipbech": {
  "name": "Filip Bruun Bech-Larsen",

Filip is a Frontend developer from Denmark. He works at IMPACT, delivering large-scale, high-performance e-commerce to international clients - most often build in Angular. He runs the local Angular usergroup - ngAarhus, and gives talks/workshops around and beyond the country of Denmark.

Olivier is a passionate front-end engineer who loves interacting with the community by doing open source projects (ocLazyLoad, ngx-translate), being a panelist at Angular-Air, giving talks or just chatting on Twitter and Slack. He's a member of the Angular Core team and works on i18n.

Ciro is the Lead Front-end Engineer of CrossEngage and Google Developer Expert in Web Technologies.

Raul works as a CEO and Front-end Architect at Byte Default for companies around the world helping them to build high-performance web apps. In his spare time he's usually working on Videogular, involved in local meetups, speaking at conferences and contributing to open source projects.


Co-founder and CTO of Thinktecture AG, as well as Google GDE and Microsoft MVP. Since two decades active as an engaged and passionate speaker on several software conferences and events all over the world. Some
people call him 'Mr. Cross-Platform'.",
  "groups": ["GDE"]
},
"shairez": {
  "name": "Shai Reznik",
  "picture": "shaireznik.jpg",
  "twitter": "shai_reznik",
  "website": "https://www.hirez.io",
  "bio": "Teaches Angular at HiRez.io - the most entertaining online courses on the web. An experienced developer, consultant and speaker also known for his unusual crazy Angular talks such as ng-wat, ng-show, ng-rap, etc. Shai is also the organizer of the largest JavaScript group in Israel and a professional Improv performer.";
  "groups": ["GDE"]
},
"danwahlin": {
  "name": "Dan Wahlin",
  "picture": "danwahlin.jpg",
  "twitter": "DanWahlin",
  "website": "https://codewithdan.com",
  "bio": "Dan Wahlin founded Wahlin Consulting which provides consulting and onsite/online training services on Web technologies such as JavaScript, Angular, TypeScript, Node.js, C#, ASP.NET Core, Web API, and Docker. He's also published many developer courses on Pluralsight.com and Udemy.com. Dan is a Google GDE, Docker Captain, and Microsoft MVP and Regional Director and speaks at conferences and user groups around the world. Dan has written several books on Web technologies, hundreds of technical articles and blog posts (https://blog.codewithdan.com) and runs the 'Code with Dan Web Weekly Newsletter' - a great way to stay up on the latest technologies. Follow Dan on Twitter @DanWahlin."
},
"joeames": {
  "name": "Joe Eames",
  "picture": "joeeames.jpg",
  "twitter": "josepheames",
  "website": "https://joeeames.me",
  "bio": "Joe Eames is a developer and educator. He publishes course on Angular and JavaScript on Pluralsight.com. He is an organizer of ng-conf, a Google Developer Expert in Angular, gives lots of talks & workshops, and loves all things web."
},
"willmendesneto": {
  "name": "Wilson Mendes",
  "picture": "willmendesneto.jpg",
  "twitter": "willmendesneto",
  "website": "https://willmendesneto.github.io",
  "bio": "GDE (Google Developer Expert) Angular and Web Technologies, GDG Salvador organizer, passionate about technology and active in communities with a focus on web development, including Angular, JavaScript, HTML5, CSS3, Workflow, web performance, security and Internet of things. Participates in events organization, speaker at conferences in Brazil and other countries and contributes to several open source projects."
},
"groups": ["GDE"]
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"jecelynyeen": {
  "name": "Jecelyn Yeen",
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  "website": "https://developers.google.com/experts/people/jecelyn-yeen",
  "bio": "GDE (Google Developer Expert) Angular and Web Technologies, Women Who Code KL Director. Jecelyn specializes in professional application development with technologies, including Angular, HTML5, Typescript, JavaScript, CSS, C#, NodeJs, Cloud and ASP.NET.",
  "groups": ["GDE"]
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"areai51": {
  "name": "Vinci Rufus",
  "picture": "vincirufus.jpg",
  "twitter": "areai51",
  "website": "https://developers.google.com/experts/people/vinci-rufus",
  "bio": "Director of Experience Technology at SapientRazorfish. Consults various brands on their frontend and mobile web architecture. A speaker at various forums and mentor at Launchpad Accelerator and ngGirls India. Spends free time playing with Angular, Preact, web-components",
  "groups": ["GDE"]
},
"tchatel": {
  "name": "Thierry Chatel",
  "picture": "thierrychatel.jpg",
  "twitter": "ThierryChatel",
  "website": "http://www.methotic.com",
  "bio": "Thierry is a senior consultant and trainer, specialized on Angular, and a Google Developer Expert.",
  "groups": ["GDE"]
},
"gerardsans": {
  "name": "Gerard Sans",
  "picture": "gerardsans.jpg",
  "twitter": "gerardsans",
  "website": "https://medium.com/@gerard.sans",
  "bio": "Gerard is very excited about the future of the Web and JavaScript. Always happy Computer Science Engineer and humble Google Developer Expert. He loves to share his learnings by giving talks, trainings and writing about cool technologies. He loves running AngularZone and GraphQL London, mentoring students and giving back to the community.",
  "groups": ["GDE"]
},
"nirkaufman": {
  "name": "Nir Kaufman",
  "picture": "nirkaufman.jpg",
  "twitter": "nirkaufman",
  "website": "http://ngnir.life/",
  "bio": "Nir is a Principal Frontend Consultant & Head of the Angular department at 500Tech, Google Developer Expert and community leader. He organizes the largest Angular meetup group in Israel (Angular-IL), talks and teaches about front-end technologies around the world. He is also the author of two books about Angular and the founder of the 'Frontend Band'."
}
"groups": ["GDE"]
},
"achautard": {
  "name": "Alain Chautard",
  "picture": "alainchautard.png",
  "twitter": "AlainChautard",
  "website": "http://www.angulartraining.com",
  "bio": "Alain Chautard is a Google Developer Expert in Web Technologies / Angular. He started working with Angular JS in 2011. Since then he has worked with all Angular versions on a daily basis, both as a developer and as a technical trainer. He is the organizer of the Sacramento Angular Meetup group, co-organizer of the Google Developer Group chapter in Sacramento, California, and published author of the Packt video course ‘Getting Started with Angular’.",
  "groups": ["GDE"]
},
"coryrylan": {
  "name": "Cory Rylan",
  "picture": "cory-rylan.jpg",
  "twitter": "coryrylan",
  "website": "https://coryrylan.com",
  "bio": "Cory is a full time front end web developer. He works full time building responsive web applications and progressive web apps. When not building web apps he is busy teaching Angular and other web technologies in workshops and conferences. He loves the web and is optimistic of the places it can take us.",
  "groups": ["GDE"]
},
"mhartington": {
  "name": "Mike Hartington",
  "picture": "mhartington.png",
  "twitter": "mhartington",
  "website": "https://mhartington.io",
  "bio": "Mike is a Developer Advocate for the Ionic Framework and a GDE in Angular. He spends most of his time making fast PWAs and exploring emerging web standards. When not behind a keyboard, you'll probably find him with a guitar and beer.",
  "groups": ["GDE"]
},
"juristr": {
  "name": "Juri Strumpflohner",
  "picture": "juriestr.jpg",
  "twitter": "juriestr",
  "website": "https://juristr.com",
  "bio": "Juri is a software engineer and freelance trainer and consultant currently mostly focusing on the frontend side using JavaScript, TypeScript and Angular. He has a passion for teaching and sharing his knowledge and experiences with others. This mostly happens by writing tech articles for his personal blog, by creating video courses for Egghead.io, during on-site workshops at companies or by speaking at conferences. In his free time he enjoys practicing Yoseikan Budo, a martial art where he currently owns the 3rd DAN black belt.",
  "groups": ["GDE"]
},
"mashhoodr": {
  "name": "Mashhood Rastgar",
  "bio": "Mashhood is a software engineer experienced in both the front and back end. He enjoys teaching and sharing his experiences with other developers. He has been using Angular for over 5 years and has written articles on various topics related to Angular.",
  "groups": ["GDE"]
}
Mashhood is the principal technical consultant at Recurship and a Google Developer Expert. He works with different startups in US and EU to help them crawl through the technical maze and quickly build amazing products focused around the problems they are trying to solve. He specializes in using the latest web technologies available to execute the best possible solutions.

Kim is an an Angular consultant, developer, speaker, writer, and Google Developer Expert. She is passionate about learning from and sharing knowledge with other developers through blogging, speaking, workshops, and open source.

Elana is a Developer Relations intern on the Angular team at Google. She is working on migration paths from AngularJS to Angular and would love to chat about your experience with upgrading.

Kevin is a Angular Taiwan, Angular Girls Taiwan community organizer. He loves sharing knowledge with other developers through blogging, speaking, workshops.

Sajeetharan is a Developer, Top contributor on stackoverflow for #Angular, ng-SriLanka organizer. He makes use of his extensive knowledge over the past years to contribute to community to make the world a better place.

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"name": "Suguru Inatomi",
"picture": "lacolaco.jpg",
"twitter": "laco2net",
"website": "https://lacolaco.net",
"bio": "Suguru is a community-loving Frontend developer and a lead of Angular Japan User Group. He organizes the largest Angular event in Japan (ng-japan). And he is a contributor to Angular by sending patches, writing, speaking, and localizing resources in Japanese.",
"groups": ["GDE"]
},
"katerina": {
"name": "Katerina Skroumpelou",
"picture": "katerina.jpg",
"twitter": "psybercity",
"website": "https://mandarini.github.io",
"bio": "Katerina is a front end software engineer, a conference speaker and AngularAthens meetup organizer. She is obsessed with sharing knowledge about things she loves. She is also trying to support diversity in the community. She lives with her cat in Athens.",
"groups": ["GDE"]
},
"blove": {
"name": "Brian Love",
"picture": "brian-love.jpg",
"twitter": "brian_love",
"website": "https://brianflove.com",
"bio": "Brian is a software engineer and GDE in Angular with a passion for learning, writing, speaking, teaching and mentoring. Brian has been building web applications for over 20 years and has long been a fanboy of JavaScript. When not in front of his Macbook Pro Brian is in the Rocky Mountains skiing or hiking.",
"groups": ["GDE"]
},
"jeffbcross": {
"name": "Jeff Cross",
"picture": "jeff-cross.jpg",
"twitter": "jeffbcross",
"website": "https://nrwl.io",
"bio": "Jeff is an Angular Consultant at nrwl.io where he helps enterprise teams succeed with Angular. Prior to founding Nrwl, Jeff was one of the earliest members of the Angular Core Team at Google, and contributed to many of the early state management and performance efforts of AngularJS and Angular.",
"groups": ["GDE"]
},
"keilla": {
"name": "Keilla Menezes Fernandes",
"picture": "keilla.jpg",
"twitter": "keillamenezes_",
"bio": "I am Senior Software Development Consultant in ThoughtWorks and GDE in Angular. Graduated in Computer Science from Federal University of Bahia, I have been worked with software development for more than 11 years. Since 2017, I started with Angular Framework and I went deep into front-end ecosystem and became more specialized in this area. I participate in a computer science community, Campinas Front-end, that promotes events in this area. In the end of 2016, I started to do technical talks. The passion for science is the engine that drives me to
seek answers to the problems that computing aims to solve. Besides that, sharing knowledge and experiences is the path I choose to democratize the technology for all.

"groups": ["GDE"]
},
"mira": {
"name": "Stanimira Vlaeva",
"picture": "mira.jpg",
"twitter": "StanimiraVlaeva",
"website": "https://github.com/sis0k0",
"bio": "Software engineer on the NativeScript team at Progress, focused on NativeScript Angular, NativeScript schematics, and integrating webpack in the {N} build system. Co-organizing the Angular Sofia meetup. Speaking about Angular things at conferences here and there."
},
"groups": ["GDE"]
},
"sharondio": {
"name": "Sharon DiOrio",
"picture": "sharon.jpg",
"twitter": "sharondio",
"website": "https://medium.com/@sharondio",
"bio": "Sharon is a mother to four teenagers, wife of a USMC veteran/police officer, and lead front-end engineer for an educational non-profit in Boston. In her spare time, she is the "Head Instigator" of the Angular-Boston Meetup and an active member of the Boston meetups community. She occasionally speaks on Angular and related topics at technology conferences across the country. She has a Bachelor of Fine Arts from SMU and a Masters with honors from RTFM."
},
"groups": ["GDE"]
},
"leonardozizzamia": {
"name": "Leonardo Zizzamia",
"picture": "leonardo.jpg",
"twitter": "zizzamia",
"website": "https://medium.com/@zizzamia",
"bio": "Leonardo is a Senior Software Engineer at Coinbase. He is deeply passionate about web performance and most recently developed Perfume.js to help companies prioritize roadmaps and business, through performance analytics. From 2018, co-organizer of the Angular San Francisco Meetup group and NGRome Conference."
},
"groups": ["GDE"]
},
"tomastrajan": {
"name": "Tomas Trajan",
"picture": "tomastrajan.jpg",
"twitter": "tomastrajan",
"website": "https://medium.com/@tomastrajan",
"bio": "Tomas is a Senior Software Engineer with passion for frontend and especially Angular. He always strives to provide lots of value and to empower teams he is working with by sharing know-how, introducing best practices and automating mundane task to enable full focus on creating value for the users! He likes to share his Angular know-how by blogging, speaking and recording video content. He is a co-organizer of Angular Meetup Zurich."
},
"groups": ["GDE"]
},
"samjulien": {

"name": "Sam Julien",
"picture": "samjulien.jpg",
"twitter": "samjulien",
"website": "http://www.samjulien.com/",
"bio": "Sam Julien builds software, articles, video courses, and campfires. A developer, speaker, writer, and GDE in the Pacific Northwest, Sam's favorite thing in the world is changing someone's life by teaching them to code.",
"groups": ["Collaborators", "GDE"],
"mentor": "gkalpak"
},
"JiaLiPassion": {
"name": "JiaLi Passion",
"groups": ["Collaborators"],
"mentor": "mhevery",
"picture": "JiaLiPassion.jpg",
"bio": "A programmer with passion, angular/zone.js guy! Web frontend engineer @sylabs"
},
"cexbrayat": {
"name": "Cdric Exbrayat",
"mentor": "petebacondarwin",
"groups": ["Collaborators"],
"picture": "cexbrayat.jpg",
"bio": "Author of ‘Become a ninja with Angular (2+)’ https://books.ninja-squad.com/angular - Angular trainer and @Ninja-Squad co-founder"
},
"CaerusKaru": {
"name": "Adam Plumer",
"groups": ["Collaborators"],
"mentor": "vikerman",
"picture": "CaerusKaru.jpg"
},
"jbedard": {
"name": "Jason Bedard",
"groups": ["Collaborators"],
"mentor": "kyliau",
"picture": "jbedard.jpg"
},
"JoostK": {
"name": "Joost Koehoorn",
"groups": ["Collaborators"],
"mentor": "alxhub",
"picture": "joostk.jpg",
"twitter": "devjoost",
"bio": "Joost is a Software Engineer from the Netherlands with an interest in open source software who likes to learn something new every day. He works at Blueriq during the day and contributes to Angular in his spare time, by working on the Angular compiler and runtime. He may review your PR even if you never asked for it ;)
},
"jschwarty": {
"name": "Justin Schwartenberger",
"picture": "jschwarty.jpg",
"twitter": "jschwarty",
"website": "http://www.jschwarty.com/",
"groups": ["Collaborators"],
"mentor": "mhevery",
"bio": "Justin Schwartenberger builds software and writes articles. He likes sharing knowledge and helping others, and is passionate about making the web a better place.
"}]
"bio": "Justin (aka Schwarty) is a Google Developer Expert in Web Technologies and Angular, the host and maintainer of the weekly AngularAir live video broadcast, educator, writer and content creator. He has Angular courses available on LinkedIn Learning and Pluralsight and loves passing on years of full stack development knowledge to help empower others to find their inner awesomeness!",

"groups": ["GDE"]
},
"brandonroberts": {
  "name": "Brandon Roberts",
  "picture": "brandonroberts.jpg",
  "twitter": "brandontroberts",
  "website": "https://brandonroberts.dev",
  "bio": "Brandon is a developer and technical writer working on guides, tutorials, application development, and infrastructure for the Angular docs. He is also a maintainer of the NgRx project, building reactive libraries for Angular."
},
"chembu": {
  "name": "Sreevani Sreejith",
  "picture": "sreevani.jpg",
  "bio": "Sreevani is a tech writer with prior programming experience. She writes documentation for the Angular framework team. Outside of work, she likes practicing yoga, honing her skills on classical dance forms, and baking cakes."
},
"dennisbrowm": {
  "name": "Denny Brown",
  "picture": "denny.jpg",
  "bio": "Denny is founder of Expert Support, a professional services firm specializing in technical communication, and leads the Angular technical writing team. His lifelong passion has been to reduce the time and effort required to understand complex technical information. Early on, he was Associate Chairman of the Computer Science Department at Stanford, where he taught introductory courses in programming. He also plays old-timers baseball in local leagues and national tournaments."
},
"juiogarthyde": {
  "name": "Judy Bogart",
  "bio": "Judy is a tech writer with prior programming experience. She writes documentation for the Angular framework team. Outside of work, she likes practicing yoga, honing her skills on classical dance forms, and baking cakes."
},
"jenifferfell": {
  "name": "Jennifer Fell"
}
"picture": "jennifer.jpg",
"website": "http://silverpath.org",
"bio": "Jennifer is a technical content strategist, architect, designer, and writer. As lead of the Angular docs team, she's always interested in learning more about how developers learn and use Angular. Her offline persona is a horsewoman in Idaho.",
"groups": ["Angular"],
"lead": "dennispbrown"
},
"kapunahelewong": {
"name": "Kapunahele Wong",
"picture": "kapunahele.jpg",
"twitter": "kapunahele",
"bio": "Kapunahele is a developer and Angular fan who works on the Angular docs writing guides and developing example apps. She also enjoys Native Hawaiian practices, textile arts, and marveling at little, inconspicuous plants growing in forgotten places outdoors.",
"groups": ["Angular"],
"lead": "dennispbrown"
},
"luixaviles": {
"name": "Luis Aviles",
"picture": "luixaviles.jpg",
"twitter": "luixaviles",
"website": "https://luixaviles.com",
"bio": "Luis is an enthusiast of Open Source software and communities, as well as being a public speaker, a technology trainer and an author of courses and technical articles. He is the organizer of the Angular Bolivia community and NG Bolivia conference. When he's not coding, Luis is reading about Astronomy or nerding about outer space, photography or even doing Astrophotography.",
"groups": ["GDE"]
},
"siddajmera": {
"name": "Siddharth Ajmera",
"picture": "sidd-ajmera.jpg",
"twitter": "SiddAjmera",
"website": "https://webstackup.com/",
"bio": "Siddharth is a Full Stack JavaScript Developer and a GDE in Angular. He's passionate about sharing his knowledge on Angular, Firebase and the Web in general. He's the organizer of WebStack, a local community of developers focused on Web, Mobile, Voice and Server related technologies in general. WebStack hosts free monthly meetups every 2nd or 3rd Saturday of the month. Siddharth is also an avid photographer and loves traveling. Find him anywhere on the Web with 'SiddAjmera.'",
"groups": ["GDE"]
},
"bbrennan": {
"name": "Bonnie Brennan",
"twitter": "bonnster75",
"groups": ["GDE"],
"picture": "bonnie.jpg",
"bio": "Bonnie has been specializing in Angular since 2013. She is the founder of ngHouston Angular Meetup and a regular panelist on Angular Air. She is also the very proud parent component of @thelittlestdev!"
}


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/**
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 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

'use strict';

// This check should be the first thing in this file
// This is to ensure that we catch env issues before we error while requiring other dependencies.
const engines = require('./package.json').engines;
require('./tools/check-environment')({
  requiredNodeVersion: engines.node,
  requiredNpmVersion: engines.npm,
  requiredYarnVersion: engines.yarn
});

const gulp = require('gulp');

// See `tools/gulp-tasks/README.md` for information about task loading.
function loadTask(fileName, taskName) {
  const taskModule = require('./tools/gulp-tasks/' + fileName);
  const task = taskName ? taskModule[taskName] : taskModule;
  return task(gulp);
}

// Check source code for formatting errors in all source files.
gulp.task('format:enforce', loadTask('format', 'enforce'));

// Format all source files.
gulp.task('format:all', loadTask('format', 'format'));

// Format only untracked source code files.
gulp.task('format:untracked', loadTask('format', 'format-untracked'));

---

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// Format only the changed, tracked source code files.
gulp.task('format:diff', loadTask('format', 'format-diff'));

// Format only changed lines based on the diff from the provided --branch
// argument (or `master` by default).
gulp.task('format:changed', ['format:untracked', 'format:diff']);

// Alias for 'format:changed' that formerly formatted all files.
gulp.task('format', ['format:changed']);

gulp.task('lint', ['format:enforce', 'validate-commit-messages', 'tslint']);
gulp.task('tslint', ['tools:build'], loadTask('lint'));
gulp.task('validate-commit-messages', loadTask('validate-commit-message'));
gulp.task('source-map-test', loadTask('source-map-test'));
gulp.task('tools:build', loadTask('tools-build'));
gulp.task('check-cycle', loadTask('check-cycle'));
gulp.task('serve', loadTask('serve', 'default'));
gulp.task('changelog', loadTask('changelog'));

gulp.task('check-env', () => {/* this is a noop because the env test ran already above */});
gulp.task('cldr:extract', loadTask('cldr', 'extract'));
gulp.task('cldr:download', loadTask('cldr', 'download'));
gulp.task('cldr:gen-closure-locale', loadTask('cldr', 'closure'));
/**
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 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

'use strict';

// THIS CHECK SHOULD BE THE FIRST THING IN THIS FILE
// This is to ensure that we catch env issues before we error while requiring other dependencies.
const engines = require('./package.json').engines;
require('./tools/check-environment')({
  requiredNodeVersion: engines.node,
  requiredNpmVersion: engines.npm,
  requiredYarnVersion: engines.yarn
});

const gulp = require('gulp');

// See `tools/gulp-tasks/README.md` for information about task loading.
function loadTask(fileName, taskName) {
  const taskModule = require('./tools/gulp-tasks/' + fileName);
  const task = taskName ? taskModule[taskName] : taskModule;
  return task;
}
return task(gulp);
}

// Check source code for formatting errors in all source files.
gulp.task('format:enforce', loadTask('format', 'enforce'));

// Format all source files.
gulp.task('format:all', loadTask('format', 'format'));

// Format only untracked source code files.
gulp.task('format:untracked', loadTask('format', 'format-untracked'));

// Format only the changed, tracked source code files.
gulp.task('format:diff', loadTask('format', 'format-diff'));

// Format only changed lines based on the diff from the provided --branch
// argument (or `master` by default).
gulp.task('format:changed', ['format:untracked', 'format:diff']);

// Alias for `format:changed` that formerly formatted all files.
gulp.task('format', ['format:changed']);

gulp.task('lint', ['format:enforce', 'validate-commit-messages', 'tslint']);
gulp.task('tslint', ['tools:build'], loadTask('lint'));
gulp.task('validate-commit-messages', loadTask('validate-commit-message'));
gulp.task('source-map-test', loadTask('source-map-test'));
gulp.task('check-cycle', loadTask('check-cycle'));
gulp.task('check-env', () => {/* this is a noop because the env test ran already above */});
gulp.task('cldr:extract', loadTask('cldr', 'extract'));
gulp.task('cldr:download', loadTask('cldr', 'download'));
gulp.task('cldr:gen-closure-locale', loadTask('cldr', 'closure'));

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1.4 Angular Bootstrap 0.12.0

1.4.1 Available under license:
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1.5 Angular UI Sortable 1.1.1

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1.6 angular-chart.js 0.7.2

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1.7 Angular-dashboard-framework 0.8.0

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1.8 Arctext.js 1

1.8.1 Available under license:

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1.9 aspectjweaver 1.9.5
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*
* Contributors:
* Xerox/PARC initial implementation
* *******************************************************************/

package org.aspectj.util;

import java.io.BufferedOutputStream;
import java.io.BufferedReader;
import java.io.ByteArrayOutputStream;
import java.io.DataInputStream;
import java.io.DataOutputStream;
import java.io.File;
import java.io.FileFilter;
import java.io.FileInputStream;
import java.io.FileNotFoundException;
import java.io.FileWriter;
import java.io.FilenameFilter;
import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.io.PrintStream;
import java.io.Reader;
import java.io.StringReader;
import java.io.Writer;
import java.net.MalformedURLException;
import java.net.URISyntaxException;
import java.net.URL;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.Iterator;
import java.util.LinkedList;
import java.util.List;
import java.util.zip.ZipEntry;
import java.util.zip.ZipFile;

/**
 * @author Andy Clement
 * @author Kris De Volder
 */
public class FileUtil {
/** default parent directory File when a file has a null parent */
private static final File DEFAULT_PARENT = new File("."); // XXX user.dir?

/** unmodifiable List of String source file suffixes (including leading ".") */
private static final List<String> SOURCE_SUFFIXES = Collections.unmodifiableList(Arrays.asList(new String[]{
"java", ".aj" }));

private static final FileFilter ZIP_FILTER = new FileFilter() {
public boolean accept(File file) {
return isZipFile(file);
}
public String toString() {
return "ZIP_FILTER";
}
};

// public static final FileFilter SOURCE_FILTER = new FileFilter() {
//   public boolean accept(File file) {
//     return hasSourceSuffix(file);
//   }
//   public String toString() {
//     return "SOURCE_FILTER";
//   }
// };

final static int[] INT_RA = new int[0];

/** accept all files */
private static final FileFilter ALL = new FileFilter() {
   public boolean accept(File f) {
     return true;
   }
};

private static final FileFilter DIRS_AND_WRITABLE_CLASSES = new FileFilter() {
   public boolean accept(File file) {
     return (null != file) && (file.isDirectory() || (file.canWrite() &&
file.getName().toLowerCase().endsWith(".class")));
   }
};
private static final boolean PERMIT_CVS;
static {
String name = FileUtil.class.getName() + ".PERMIT_CVS";
PERMIT_CVS = LangUtil.getBoolean(name, false);
}

/** @return true if file exists and is a zip file */
public static boolean isZipFile(File file) {
try {
return (null != file) && new ZipFile(file) != null;
} catch (IOException e) {
return false;
}
}

/** @return true if path ends with .zip or .jar */
// public static boolean hasZipSuffix(String path) {
// return ((null != path) && (0 != zipSuffixLength(path)));
// }
/** @return 0 if file has no zip/jar suffix or 4 otherwise */
public static int zipSuffixLength(File file) {
return (null == file ? 0 : zipSuffixLength(file.getPath()));
}

/** @return 0 if no zip/jar suffix or 4 otherwise */
public static int zipSuffixLength(String path) {
if ((null != path) && (4 < path.length())) {
String test = path.substring(path.length() - 4).toLowerCase();
if (".zip".equals(test) || ".jar".equals(test)) {
return 4;
}
}
return 0;
}

/** @return true if file path has a source suffix */
public static boolean hasSourceSuffix(File file) {
return ((null != file) && hasSourceSuffix(file.getPath()));
}

/** @return true if path ends with .java or .aj */
public static boolean hasSourceSuffix(String path) {
return ((null != path) && (0 != sourceSuffixLength(path)));
}

/**
* @return 0 if file has no source suffix or the length of the suffix otherwise
*/
public static int sourceSuffixLength(File file) {
    return (null == file ? 0 : sourceSuffixLength(file.getPath()));
}

/** @return 0 if no source suffix or the length of the suffix otherwise */
public static int sourceSuffixLength(String path) {
    if (LangUtil.isEmpty(path)) {
        return 0;
    }
    for (Iterator<String> iter = SOURCE_SUFFIXES.iterator(); iter.hasNext();) {
        String suffix = iter.next();
        if (path.endsWith(suffix) || path.toLowerCase().endsWith(suffix)) {
            return suffix.length();
        }
    }
    return 0;
}

/** @return true if this is a readable directory */
public static boolean canReadDir(File dir) {
    return ((null != dir) && dir.canRead() && dir.isDirectory());
}

/** @return true if this is a readable file */
public static boolean canReadFile(File file) {
    return ((null != file) && file.canRead() && file.isFile());
}

/** @return true if dir is a writable directory */
public static boolean canWriteDir(File dir) {
    return ((null != dir) && dir.canWrite() && dir.isDirectory());
}

/** @return true if this is a writable file */
public static boolean canWriteFile(File file) {
    return ((null != file) && file.canWrite() && file.isFile());
}

// /**
// * @throws IllegalArgumentException unless file is readable and not a
// * directory
// */
// public static void throwIaxUnlessCanReadFile(File file, String label) {
//     if (!canReadFile(file)) {
//         throw new IllegalArgumentException(label + " not readable file: " +
// file);
//     }
// */

// Open Source Used In CBD 2.2.x
public static void throwIaxUnlessCanReadDir(File dir, String label) {
    if (!canReadDir(dir)) {
        throw new IllegalArgumentException(label + " not readable dir: " + dir);
    }
}

public static void throwIaxUnlessCanWriteFile(File file, String label) {
    if (!canWriteFile(file)) {
        throw new IllegalArgumentException(label + " not writable file: " + file);
    }
}

public static void throwIaxUnlessCanWriteDir(File dir, String label) {
    if (!canWriteDir(dir)) {
        throw new IllegalArgumentException(label + " not writable dir: " + dir);
    }
}

public static String[] getPaths(File[] files) {
    if ((null == files) || (0 == files.length)) {
        return new String[0];
    }
    String[] result = new String[files.length];
    for (int i = 0; i < result.length; i++) {
        if (null != files[i]) {
            result[i] = files[i].getPath();
        }
    }
    return result;
}

public static String[] getPaths(List<File> files) {
    final int size = (null == files ? 0 : files.size());
    if (0 == size) {
        return new String[0];
    }
    String[] result = new String[size];
    for (int i = 0; i < size; i++) {
        if (null != files.get(i)) {
            result[i] = files.get(i).getPath();
        }
    }
    return result;
}
String[] result = new String[size];
for (int i = 0; i < size; i++) {
    File file = files.get(i);
    if (null != file) {
        result[i] = file.getPath();
    }
}
return result;

/**
 * Extract the name of a class from the path to its file. If the basedir is null, then the class is assumed to be in the default
 * package unless the classFile has one of the top-level suffixes { com, org, java, javax } as a parent directory.
 * @param basedir the File of the base directory (prefix of classFile)
 * @param classFile the File of the class to extract the name for
 * @throws IllegalArgumentException if classFile is null or does not end with ".class" or a non-null basedir is not a prefix of
 *     classFile
 */
public static String fileToClassName(File basedir, File classFile) {
    LangUtil.throwIaxIfNull(classFile, "classFile");
    String classFilePath = normalizedPath(classFile);
    if (!classFilePath.endsWith(".class")) {
        String m = classFile + " does not end with .class";
        throw new IllegalArgumentException(m);
    }
    classFilePath = classFilePath.substring(0, classFilePath.length() - 6);
    if (null != basedir) {
        String basePath = normalizedPath(basedir);
        if (!classFilePath.startsWith(basePath)) {
            String m = classFile + " does not start with " + basedir;
            throw new IllegalArgumentException(m);
        }
        classFilePath = classFilePath.substring(basePath.length() + 1);
    } else {
        final String[] suffixes = new String[] { "com", "org", "java", "javax" };
        boolean found = false;
        for (int i = 0; !found && (i < suffixes.length); i++) {
            int loc = classFilePath.indexOf(suffixes[i] + "/");
            if ((0 == loc) || ((-1 != loc) && ('/' == classFilePath.charAt(loc - 1)))) {
                classFilePath = classFilePath.substring(loc);
                found = true;
            }
        }
        if (!found) {
            int loc = classFilePath.lastIndexOf("/");
            ...
if (-1 != loc) { // treat as default package
classFilePath = classFilePath.substring(loc + 1);
}
return classFilePath.replace('/', '.');

/**
 * Normalize path for comparisons by rendering absolute, clipping basedir prefix, trimming and changing \\ to '/'
 * @param file the File with the path to normalize
 * @param basedir the File for the prefix of the file to normalize - ignored if null
 * @return "" if null or normalized path otherwise
 * @throws IllegalArgumentException if basedir is not a prefix of file
 */
public static String normalizedPath(File file, File basedir) {
String filePath = normalizedPath(file);
if (null != basedir) {
String basePath = normalizedPath(basedir);
if (filePath.startsWith(basePath)) {
filePath = filePath.substring(basePath.length());
if (filePath.startsWith('/')) {
filePath = filePath.substring(1);
}
}
return filePath;
}

/**
 * Render a set of files to String as a path by getting absolute paths of each and delimiting with infix.
 * @param files the File[] to flatten - may be null or empty
 * @param infix the String delimiter internally between entries (if null, then use File.pathSeparator). (alias to
 * <code>flatten(getAbsolutePaths(files), infix)</code>
 * @return String with absolute paths to entries in order, delimited with infix
 */
public static String flatten(File[] files, String infix) {
if (LangUtil.isEmpty(files)) {
return "";
}
return flatten(getPaths(files), infix);
}

/**
 * Flatten File[] to String.
 *
* @param files the File[] of paths to flatten - null ignored
* @param infix the String infix to use - null treated as File.pathSeparator
*/
public static String flatten(String[] paths, String infix) {
    if (null == infix) {
        infix = File.pathSeparator;
    }
    StringBuffer result = new StringBuffer();
    boolean first = true;
    for (int i = 0; i < paths.length; i++) {
        String path = paths[i];
        if (null == path) {
            continue;
        }
        if (first) {
            first = false;
        } else {
            result.append(infix);
        }
        result.append(path);
    }
    return result.toString();
}

/**
 * Normalize path for comparisons by rendering absolute trimming and changing '\\' to '/'
 * @return "" if null or normalized path otherwise
 */
public static String normalizedPath(File file) {
    return (null == file ? "" : weakNormalize(file.getAbsolutePath()));
}

/**
 * Weakly normalize path for comparisons by trimming and changing '\\' to '/'
 */
public static String weakNormalize(String path) {
    if (null != path) {
        path = path.replace(\\, '/').trim();
    }
    return path;
}

/**
 * Get best File for the first-readable path in input paths, treating entries prefixed "sp:" as system property keys. Safe
to
call in static initializers.
 */
public static File getBestFile(String[] paths) {
    if (null == paths) {
        return null;
    }
    File result = null;
    for (int i = 0; (null == result) && (i < paths.length); i++) {
        String path = paths[i];
        if (null == path) {
            continue;
        }
        if (path.startsWith("sp:")) {
            try {
                path = System.getProperty(path.substring(3));
            } catch (Throwable t) {
                path = null;
            }
        }
        if (null == path) {
            continue;
        }
        try {
            File f = new File(path);
            if (f.exists() && f.canRead()) {
                result = FileUtil.getBestFile(f);
            }
        } catch (Throwable t) {
            // swallow
        }
    }
    return result;
}

public static File getBestFile(String[] paths, boolean mustBeJar) {
    if (null == paths) {
        return null;
    }
    File result = null;
    for (int i = 0; (null == result) && (i < paths.length); i++) {
        String path = paths[i];
        if (null == path) {
            continue;
        }
        if (path.startsWith("sp:")) {
            try {
                path = System.getProperty(path.substring(3));
            } catch (Throwable t) {
                path = null;
            }
        }
        try {
            File f = new File(path);
            if (mustBeJar) {
                if (!f.isFile()) {
                    continue;
                }
            }
            if (f.exists() && f.canRead()) {
                result = FileUtil.getBestFile(f);
            }
        } catch (Throwable t) {
            // swallow
        }
    }
    return result;
}
try {
    File f = new File(path);

    if (f.exists() && f.canRead()) {
        if (mustBeJar && !f.isDirectory()) {
            result = FileUtil.getBestFile(f);
        }
        // swallow
    }
    return result;
}

/**
 * Render as best file, canonical or absolute.
 *
 * @param file the File to get the best File for (not null)
 * @return File of the best-available path
 * @throws IllegalArgumentException if file is null
 */
public static File getBestFile(File file) {
    LangUtil.throwIaxIfNull(file, "file");
    if (file.exists()) {
        try {
            return file.getCanonicalFile();
        } catch (IOException e) {
            return file.getAbsoluteFile();
        }
    } else {
        return file;
    }
}

/**
 * Render as best path, canonical or absolute.
 *
 * @param file the File to get the path for (not null)
 * @return String of the best-available path
 * @throws IllegalArgumentException if file is null
 */

*/
public static String getBestPath(File file) {
    LangUtil.throwIaxIfNull(file, "file");
    if (file.exists()) {
        try {
            return file.getCanonicalPath();
        } catch (IOException e) {
            return file.getAbsolutePath();
        }
    } else {
        return file.getPath();
    }
}

/** @return array same length as input, with String absolute paths */
public static String[] getAbsolutePaths(File[] files) {
    if ((null == files) || (0 == files.length)) {
        return new String[0];
    }
    String[] result = new String[files.length];
    for (int i = 0; i < result.length; i++) {
        if (null != files[i]) {
            result[i] = files[i].getAbsolutePath();
        }
    }
    return result;
}

/**
 * Recursively delete the contents of dir, but not the dir itself
 * @return the total number of files deleted
 */
public static int deleteContents(File dir) {
    return deleteContents(dir, ALL);
}

/**
 * Recursively delete some contents of dir, but not the dir itself. This deletes any subdirectory which is empty after
 * its files
 * @return the total number of files deleted
 */
public static int deleteContents(File dir, FileFilter filter) {
    return deleteContents(dir, filter, true);
}
/**
 * Recursively delete some contents of dir, but not the dir itself. If deleteEmptyDirs is true, this deletes any
 * subdirectory which is empty after its files are deleted.
 * *
 * @param dir the File directory (if a file, the the file is deleted)
 * @return the total number of files deleted
 */
public static int deleteContents(File dir, FileFilter filter,
        boolean deleteEmptyDirs) {
    if (null == dir) {
        throw new IllegalArgumentException("null dir");
    }
    if (!dir.exists() || !dir.canWrite()) {
        return 0;
    }
    if (!dir.isDirectory()) {
        dir.delete();
        return 1;
    }
    String[] fromFiles = dir.list();
    if (fromFiles == null) {
        return 0;
    }
    int result = 0;
    for (int i = 0; i < fromFiles.length; i++) {
        String string = fromFiles[i];
        File file = new File(dir, string);
        if ((null == filter) || filter.accept(file)) {
            if (file.isDirectory()) {
                result += deleteContents(file, filter, deleteEmptyDirs);
                String[] fileContent = file.list();
                if (deleteEmptyDirs && fileContent != null
                        && 0 == fileContent.length) {
                    file.delete();
                } else {
                    /* boolean ret = */
                    file.delete();
                    result++;
                }
            } else {
                /* boolean ret = */
                file.delete();
                result++;
            }
        }
    }
    return result;
}

/**
 * Copy contents of fromDir into toDir
* @param fromDir must exist and be readable
* @param toDir must exist or be creatable and be writable
* @return the total number of files copied
*/
public static int copyDir(File fromDir, File toDir) throws IOException {
    return copyDir(fromDir, toDir, null, null);
}

/**
 * Recursively copy files in fromDir (with any fromSuffix) to toDir, replacing fromSuffix with toSuffix if any. This silently
 * ignores dirs and files that are not readable but throw IOException for directories that are not writable. This does not clean
 * out the original contents of toDir. (subdirectories are not renamed per directory rules)
 *
 * @param fromSuffix select files with this suffix - select all if null or empty
 * @param toSuffix replace fromSuffix with toSuffix in the destination file name - ignored if null or empty, appended to name if
 * fromSuffix is null or empty
 * @return the total number of files copied
 */
public static int copyDir(File fromDir, File toDir, final String fromSuffix, String toSuffix) throws IOException {
    return copyDir(fromDir, toDir, fromSuffix, toSuffix, (FileFilter) null);
}

// /**
// * Recursively copy files in fromDir (with any fromSuffix) to toDir, replacing fromSuffix with toSuffix if any, and adding the destination
// * file to any collector. This silently ignores dirs and files that are
// * not readable but throw IOException for directories that are not writable.
// * This does not clean out the original contents of toDir. (subdirectories
// * are not renamed per directory rules) This calls any delegate
// * FilenameFilter to collect any selected file.
// *
// * @param fromSuffix select files with this suffix - select all if null or
// * empty
// * @param toSuffix replace fromSuffix with toSuffix in the destination
// * file
// * name - ignored if null or empty, appended to name if
// * fromSuffix is null or empty
// * @param collector the List sink for destination files - ignored if null
// * @return the total number of files copied
// */
// public static int copyDir(File fromDir, File toDir, final String
// fromSuffix, final String toSuffix, final List collector)
// throws IOException {
```java
// int before = collector.size();
// if (null == collector) {
// return copyDir(fromDir, toDir, fromSuffix, toSuffix);
// } else {
// FileFilter collect = new FileFilter() {
// public boolean accept(File pathname) {
// return collector.add(pathname);
// }
// }
// return copyDir(fromDir, toDir, fromSuffix, toSuffix, collect);
// }
// }

/**
* Recursively copy files in fromDir (with any fromSuffix) to toDir, replacing fromSuffix with toSuffix if any. This
* silently
* ignores dirs and files that are not readable but throw IOException for directories that are not writable. This does
* not clean
* out the original contents of toDir. (subdirectories are not renamed per directory rules) This calls any delegate
* FilenameFilter to collect any selected file.
* @param fromSuffix select files with this suffix - select all if null or empty
* @param toSuffix replace fromSuffix with toSuffix in the destination file name - ignored if null or empty,
* appended to name if
* @param fromSuffix is null or empty
* @return the total number of files copied
*/
public static int copyDir(File fromDir, File toDir, final String fromSuffix, final String toSuffix, final FileFilter delegate)
throws IOException {
    if ((null == fromDir) || (!fromDir.canRead())) {
        return 0;
    }
    final boolean haveSuffix = ((null != fromSuffix) && (0 < fromSuffix.length()));
    final int slen = (!haveSuffix ? 0 : fromSuffix.length());
    final String[] fromFiles;
    if (!haveSuffix) {
        fromFiles = fromDir.list();
    } else {
        FilenameFilter filter = new FilenameFilter() {
            public boolean accept(File dir, String name) {
                return (new File(dir, name).isDirectory() || (name.endsWith(fromSuffix)));
            }
        };
        fromFiles = filter.accept(fromDir, fromSuffix);
    }
    final String[] toFiles = toDir.list();
    for (String fromFile : fromFiles) {
        if (toFile.endsWith(fromFile)) {
            fromFile = fromFile.replaceFirst(toSuffix, toSuffix);
            new File(toDir, fromFile).createNewFile();
        } else {
            new File(toDir, fromFile).createNewFile();
        }
    }
    return toFiles.length;
}
```

**Open Source Used in CBD 2.2.x**
fromFiles = fromDir.list(filter);

}  
int result = 0;
final int MAX = (null == fromFiles ? 0 : fromFiles.length);
for (int i = 0; i < MAX; i++) {
    String filename = fromFiles[i];
    File fromFile = new File(fromDir, filename);
    if (fromFile.canRead()) {
        if (fromFile.isDirectory()) {
            result += copyDir(fromFile, new File(toDir, filename), fromSuffix, toSuffix, delegate);
        } else if (fromFile.isFile()) {
            if (haveSuffix) {
                filename = filename.substring(0, filename.length() - slen);
            }
            if (null != toSuffix) {
                filename = filename + toSuffix;
            }
            File targetFile = new File(toDir, filename);
            if ((null == delegate) || delegate.accept(targetFile)) {
                copyFile(fromFile, targetFile);
            }
            result++;
        }
    }
}
return result;

/**
 * Recursively list files in srcDir.
 * @return ArrayList with String paths of File under srcDir (relative to srcDir)
 */
public static String[] listFiles(File srcDir) {
    ArrayList<String> result = new ArrayList<String>();
    if ((null != srcDir) && srcDir.canRead()) {
        listFiles(srcDir, null, result);
    }
    return result.toArray(new String[0]);
}

class aspectjSourceFileFilter implements FileFilter {
    public boolean accept(File pathname) {
        String name = pathname.getName().toLowerCase();
        return name.endsWith(".java") || name.endsWith(".aj");
    }
}
/**
 * Recursively list files in srcDir.
 * @return ArrayList with String paths of File under srcDir (relative to srcDir)
 */
public static File[] listFiles(File srcDir, FileFilter fileFilter) {
ArrayList<File> result = new ArrayList<File>();
if ((null != srcDir) && srcDir.canRead()) {
   listFiles(srcDir, result, fileFilter);
}
return result.toArray(new File[result.size()]);
}

/**
 * Recursively list .class files in specified directory
 * @return List of File objects
 */
public static List<File> listClassFiles(File dir) {
ArrayList<File> result = new ArrayList<File>();
if ((null != dir) && dir.canRead()) {
   listClassFiles(dir, result);
}
return result;
}

/**
 * Convert String[] paths to File[] as offset of base directory
 * @param basedir the non-null File base directory for File to create with paths
 * @param paths the String[] of paths to create
 * @return File[] with same length as paths
 */
public static File[] getBaseDirFiles(File basedir, String[] paths) {
   return getBaseDirFiles(basedir, paths, (String[]) null);
}

/**
 * Convert String[] paths to File[] as offset of base directory
 * @param basedir the non-null File base directory for File to create with paths
 * @param paths the String[] of paths to create
 * @param suffixes the String[] of suffixes to limit sources to - ignored if null
 * @return File[] with same length as paths
 */
public static File[] getBaseDirFiles(File basedir, String[] paths, String[] suffixes) {
   LangUtil.throwIaxIfNull(basedir, "basedir");
}
LangUtil.throwIaxIfNull(paths, "paths");
File[] result = null;
if (!LangUtil.isEmpty(suffixes)) {
    ArrayList<File> list = new ArrayList<File>();
    for (int i = 0; i < paths.length; i++) {
        String path = paths[i];
        for (int j = 0; j < suffixes.length; j++) {
            if (path.endsWith(suffixes[j])) {
                list.add(new File(basedir, paths[i]));
                break;
            }
        }
    }
    result = list.toArray(new File[0]);
} else {
    result = new File[paths.length];
    for (int i = 0; i < result.length; i++) {
        result[i] = newFile(basedir, paths[i]);
    }
    return result;
}

/**
 * Create a new File, resolving paths "." and "." specially.
 *
 * @param dir the File for the parent directory of the file
 * @param path the path in the parent directory (filename only?)
 * @return File for the new file.
 */
private static File newFile(File dir, String path) {
    if (".".equals(path)) {
        return dir;
    } else if ("..".equals(path)) {
        File parentDir = dir.getParentFile();
        if (null != parentDir) {
            return parentDir;
        } else {
            return new File(dir, ".");
        }
    } else {
        return new File(dir, path);
    }
}

/**
 * Copy files from source dir into destination directory, creating any needed directories. This differs from copyDir in not
* being recursive; each input with the source dir creates a full path. However, if the source is a directory, it is
* copied as
* such.
*
* @param srcDir an existing, readable directory containing relativePaths files
* @param relativePaths a set of paths relative to srcDir to readable File to copy
* @param destDir an existing, writable directory to copy files to
* @throws IllegalArgumentException if input invalid, IOException if operations fail
*/

public static File[] copyFiles(File srcDir, String[] relativePaths, File destDir) throws IllegalArgumentException,
IOException {
    final String[] paths = relativePaths;
    throwIaxUnlessCanReadDir(srcDir, "srcDir");
    throwIaxUnlessCanWriteDir(destDir, "destDir");
    LangUtil.throwIaxIfNull(paths, "relativePaths");
    File[] result = new File[paths.length];
    for (int i = 0; i < paths.length; i++) {
        String path = paths[i];
        LangUtil.throwIaxIfNull(path, "relativePaths-entry");
        File src = newFile(srcDir, paths[i]);
        File dest = newFile(destDir, path);
        File destParent = dest.getParentFile();
        if (!destParent.exists()) {
            destParent.mkdirs();
        }
        LangUtil.throwIaxIfFalse(canWriteDir(destParent), "dest-entry-parent");
        copyFile(src, dest); // both file-dir and dir-dir copies
        result[i] = dest;
    }
    return result;
}

/**
 * Copy fromFile to toFile, handling file-file, dir-dir, and file-dir copies.
 *
 * @param fromFile the File path of the file or directory to copy - must be readable
 * @param toFile the File path of the target file or directory - must be writable (will be created if it does not exist)
 */

public static void copyFile(File fromFile, File toFile) throws IOException {
    LangUtil.throwIaxIfNull(fromFile, "fromFile");
    LangUtil.throwIaxIfNull(toFile, "toFile");
    LangUtil.throwIaxIfFalse(toFile.equals(fromFile), "same file");
    if (toFile.isDirectory()) { // existing directory
        throwIaxUnlessCanWriteDir(toFile, "toFile");
    } else if (fromFile.isDirectory()) { // file-dir
        File targFile = new File(toFile, fromFile.getName());
        copyValidFiles(fromFile, targFile);
    } else if (fromFile.isFile()) { // file-dir
        copyValidFiles(fromFile, targFile);
    }
copyDir(fromFile, toFile);
} else {
    LangUtil.throwIaxIfFalse(false, "not dir or file: " + fromFile);
}
} else if (toFile.isFile()) { // target file exists
    if (fromFile.isDirectory()) {  
LangUtil.throwIaxIfFalse(false, "can't copy to file dir: " + fromFile);
    }  
    copyValidFiles(fromFile, toFile); // file-file
} else if (toFile.isDirectory()) {  
    copyValidFiles(fromFile, toFile); // file-dir
} else { // target file is a non-existent path -- could be file or dir
    /* File toFileParent = */ensureParentWritable(toFile);
    if (fromFile.isFile()) {
LangUtil.throwIaxIfFalse(false, "can't copy to file dir: " + fromFile);
        copyValidFiles(fromFile, toFile);
    } else if (fromFile.isDirectory()) {
        toFile.mkdirs();
        throwIaxUnlessCanWriteDir(toFile, "toFile");
        copyDir(fromFile, toFile);
    } else {
        LangUtil.throwIaxIfFalse(false, "not dir or file: " + fromFile);
    }
}

/**
 * Ensure that the parent directory to path can be written. If the path has a null parent, DEFAULT_PARENT is tested. If the path
 * parent does not exist, this tries to create it.
 * *
 * @param path the File path whose parent should be writable
 * @return the File path of the writable parent directory
 * @throws IllegalArgumentException if parent cannot be written or path is null.
 */
public static File ensureParentWritable(File path) {
LangUtil.throwIaxIfNull(path, "path");
File pathParent = path.getParentFile();
if (null == pathParent) {
    pathParent = DEFAULT_PARENT;
}
if (!pathParent.canWrite()) {
    pathParent.mkdirs();
}
throwIaxUnlessCanWriteDir(pathParent, "pathParent");
return pathParent;
}

/**
 * Copy file to file.
 *
* @param fromFile the File to copy (readable, non-null file)
* @param toFile the File to copy to (non-null, parent dir exists)
* @throws IOException
*/
public static void copyValidFiles(File fromFile, File toFile) throws IOException {
  FileInputStream in = null;
  FileOutputStream out = null;
  try {
    in = new FileInputStream(fromFile);
    out = new FileOutputStream(toFile);
    copyStream(in, out);
  } finally {
    if (out != null) {
      out.close();
    }
    if (in != null) {
      in.close();
    }
  }
}

/** do line-based copying */
@SuppressWarnings("deprecation")
public static void copyStream(DataInputStream in, PrintStream out) throws IOException {
  LangUtil.throwIaxIfNull(in, "in");
  LangUtil.throwIaxIfNull(out, "out");
  String s;
  while (null != (s = in.readLine())) {
    out.println(s);
  }
}

public static void copyStream(InputStream in, OutputStream out) throws IOException {
  final int MAX = 4096;
  byte[] buf = new byte[MAX];
  for (int bytesRead = in.read(buf, 0, MAX); bytesRead != -1; bytesRead = in.read(buf, 0, MAX)) {
    out.write(buf, 0, bytesRead);
  }
}

public static void copyStream(Reader in, Writer out) throws IOException {
  final int MAX = 4096;
  char[] buf = new char[MAX];
  for (int bytesRead = in.read(buf, 0, MAX); bytesRead != -1; bytesRead = in.read(buf, 0, MAX)) {
    out.write(buf, 0, bytesRead);
  }
}
/**
 * Make a new child directory of parent
 *
 * @param parent a File for the parent (writable)
 * @param child a prefix for the child directory
 * @return a File dir that exists with parentDir as the parent file or null
 */
public static File makeNewChildDir(File parent, String child) {
    if (null == parent || !parent.canWrite() || !parent.isDirectory()) {
        throw new IllegalArgumentException("bad parent: " + parent);
    } else if (null == child) {
        child = "makeNewChildDir";
    } else if (!isValidFileName(child)) {
        throw new IllegalArgumentException("bad child: " + child);
    }
    File result = new File(parent, child);
    int safety = 1000;
    for (String suffix = FileUtil.randomFileString(); ((0 < --safety) && result.exists()); suffix =
        FileUtil.randomFileString()) {
        result = new File(parent, child + suffix);
    }
    if (result.exists()) {
        System.err.println("exhausted files for child dir in " + parent);
        return null;
    }
    return ((result.mkdirs() && result.exists()) ? result : null);
}

/**
 * Make a new temporary directory in the same directory that the system uses for temporary files, or if that files, in
 * the
 * current directory.
 *
 * @param name the preferred (simple) name of the directory - may be null.
 * @return File of an existing new temp dir, or null if unable to create
 */
public static File getTempDir(String name) {
    if (null == name) {
        name = "FileUtil_getTempDir";
    } else if (!isValidFileName(name)) {
        throw new IllegalArgumentException(" invalid: " + name);
    }
    File result = null;
    File tempFile = null;
    try {
        tempFile = File.createTempFile("ignoreMe", ".txt");
        File tempParent = tempFile.getParentFile();
        result = makeNewChildDir(tempParent, name);
    } catch (IOException e) {
        throw new IllegalArgumentException("unable to create temp dir", e);
    }
    return result;
}
} catch (IOException t) {
    result = makeNewChildDir(new File("."), name);
} finally {
    if (null != tempFile) {
        tempFile.delete();
    }
}
return result;

public static URL[] getFileURLs(File[] files) {
    if ((null == files) || (0 == files.length)) {
        return new URL[0];
    }
    URL[] result = new URL[files.length]; // XXX dangerous non-copy...
    for (int i = 0; i < result.length; i++) {
        result[i] = getFileURL(files[i]);
    }
    return result;
}

/**
 * Get URL for a File. This appends "/" for directories. prints errors to System.err
 * @param file the File to convert to URL (not null)
 */
@SuppressWarnings("deprecation")
public static URL getFileURL(File file) {
    LangUtil.throwIaxIfNull(file, "file");
    URL result = null;
    try {
        result = file.toURL(); // TODO AV - was toURI.toURL that does not
        // works on Java 1.3
        if (null != result) {
            return result;
        }
        String url = "file:" + file.getAbsolutePath().replace(’\’, ’/’);
        result = new URL(url + (file.isDirectory() ? "/" : ""));
    } catch (MalformedURLException e) {
        String m = "Util.makeURL(" + file.getPath() + " MUE " + e.getMessage();
        System.err.println(m);
    }
    return result;
}

/**
 * Write contents to file, returning null on success or error message otherwise. This tries to make any necessary
parent
public static String writeAsString(File file, String contents) {
    LangUtil.throwIaxIfNull(file, "file");
    if (null == contents) {
        contents = "";
    }
    Writer out = null;
    try {
        File parentDir = file.getParentFile();
        if (!parentDir.exists() && !parentDir.mkdirs()) {
            return "unable to make parent dir for " + file + ";
        }
        Reader in = new StringReader(contents);
        out = new FileWriter(file);
        FileUtil.copyStream(in, out);
        return null;
    } catch (IOException e) {
        return LangUtil.unqualifiedClassName(e) + " writing " + file + ": " + e.getMessage();
    } finally {
        if (null != out) {
            try {
                out.close();
            } catch (IOException e) {
                // ignored
            }
        }
    }
}

/**
 * Reads a boolean array with our encoding
 */
public static boolean[] readBooleanArray(DataInputStream s) throws IOException {
    int len = s.readInt();
    boolean[] ret = new boolean[len];
    for (int i = 0; i < len; i++) {
        ret[i] = s.readBoolean();
    }
    return ret;
}

/**
 * Writes a boolean array with our encoding
 */
public static void writeBooleanArray(boolean[] a, DataOutputStream s) throws IOException {
    int len = a.length;
    s.writeInt(len);
    for (int i = 0; i < len; i++) {
        s.writeBoolean(a[i]);
    }
}

/**
 * Reads an int array with our encoding
 */
public static int[] readIntArray(DataInputStream s) throws IOException {
    int len = s.readInt();
    int[] ret = new int[len];
    for (int i = 0; i < len; i++) {
        ret[i] = s.readInt();
    }
    return ret;
}

/**
 * Writes an int array with our encoding
 */
public static void writeIntArray(int[] a, DataOutputStream s) throws IOException {
    int len = a.length;
    s.writeInt(len);
    for (int i = 0; i < len; i++) {
        s.writeInt(a[i]);
    }
}

/**
 * Reads an int array with our encoding
 */
public static String[] readStringArray(DataInputStream s) throws IOException {
    int len = s.readInt();
    String[] ret = new String[len];
    for (int i = 0; i < len; i++) {
        ret[i] = s.readUTF();
    }
    return ret;
}

/**
 * Writes an int array with our encoding
 */
public static void writeStringArray(String[] a, DataOutputStream s) throws IOException {
    if (a == null) {
        // Write null
        s.writeInt(-1);
    } else {
        int len = a.length;
        s.writeInt(len);
        for (int i = 0; i < len; i++) {
            s.writeUTF(a[i]);
        }
    }
}
s.writeInt(0);
return;
}
int len = a.length;
s.writeInt(len);
for (int i = 0; i < len; i++) {
s.writeUTF(a[i]);
}

/**
 * Returns the contents of this file as a String
 */
public static String readAsString(File file) throws IOException {
BufferedReader r = new BufferedReader(new FileReader(file));
StringBuffer b = new StringBuffer();
while (true) {
int ch = r.read();
if (ch == -1) {
break;
}
b.append((char) ch);
}
r.close();
return b.toString();
}

// /**
// * Returns the contents of this stream as a String
// */
// public static String readAsString(InputStream in) throws IOException {
// BufferedReader r = new BufferedReader(new InputStreamReader(in));
// StringBuffer b = new StringBuffer();
// while (true) {
// int ch = r.read();
// if (ch == -1)
// break;
// b.append((char) ch);
// }
// in.close();
// r.close();
// return b.toString();
// }

/**
 * Returns the contents of this file as a byte[]
 */
public static byte[] readAsByteArray(File file) throws IOException {

FileInputStream in = new FileInputStream(file);
byte[] ret = FileUtil.readAsByteArray(in);
in.close();
return ret;
}

/**
 * Reads this input stream and returns contents as a byte[]
 */
public static byte[] readAsByteArray(InputStream inStream) throws IOException {
    int size = 1024;
    byte[] ba = new byte[size];
    int readSoFar = 0;

    while (true) {
        int nRead = inStream.read(ba, readSoFar, size - readSoFar);
        if (nRead == -1) {
            break;
        }
        readSoFar += nRead;
        if (readSoFar == size) {
            int newSize = size * 2;
            byte[] newBa = new byte[newSize];
            System.arraycopy(ba, 0, newBa, 0, size);
            ba = newBa;
            size = newSize;
        }
    }

    byte[] newBa = new byte[readSoFar];
    System.arraycopy(ba, 0, newBa, 0, readSoFar);
    return newBa;
}

final static String FILECHARS =
"abcdefghijklmnopqrstuvxyzABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789";

/** @return semi-random String of length 6 usable as filename suffix */
static String randomFileString() {
    final double FILECHARS_length = FILECHARS.length();
    final int LEN = 6;
    final char[] result = new char[LEN];
    int index = (int) (Math.random() * 6d);
    for (int i = 0; i < LEN; i++) {
        if (index >= LEN) {
            index = 0;
        }
        result[index++] = FILECHARS.charAt((int) (Math.random() * FILECHARS_length));
    }
    return new String(result);
}
public static InputStream getStreamFromZip(String zipFile, String name) {
    try {
        ZipFile zf = new ZipFile(zipFile);
        try {
            ZipEntry entry = zf.getEntry(name);
            return zf.getInputStream(entry);
        } finally {
            // ??? is it safe not to close this zf.close();
        }
    } catch (IOException ioe) {
        return null;
    }
}

//
// public static void extractJar(String zipFile, String outDir) throws
// IOException {
//    ZipInputStream zs = new ZipInputStream(new FileInputStream(zipFile));
//    ZipEntry entry;
//    while ((entry = zs.getNextEntry()) != null) {
//        if (entry.isDirectory())
//            continue;
//        byte[] in = readAsByteArray(zs);
//        //
//        // File outFile = new File(outDir + "/" + entry.getName());
//        // if (!outFile.getParentFile().exists())
//        //    System.err.println("parent: "+ outFile.getParentFile());
//        // System.err.println("parent: " + outFile.getParentFile());
//        // outFile.getParentFile().mkdirs();
//        // FileOutputStream os = new FileOutputStream(outFile);
//        // os.write(in);
//        // os.close();
//        // zs.closeEntry();
//        // }
//    }
//}
//
/**
 * Do line-based search for literal text in source files, returning file:line where found.
 *
 * @param sought the String text to seek in the file
 * @param sources the List of String paths to the source files
 * @param listAll if false, only list first match in file
 * @param errorSink the PrintStream to print any errors to (one per line) (use null to silently ignore errors)
* @return List of String of the form file:line for each found entry (never null, might be empty)
 */
// OPTIMIZE only used by tests? move it out
public static List<String> lineSeek(String sought, List<String> sources, boolean listAll, PrintStream errorSink) {
    if (LangUtil.isEmpty(sought) || LangUtil.isEmpty(sources)) {
        return Collections.emptyList();
    }
    ArrayList<String> result = new ArrayList<String>();
    for (Iterator<String> iter = sources.iterator(); iter.hasNext();) {
        String path = iter.next();
        String error = lineSeek(sought, path, listAll, result);
        if ((null != error) && (null != errorSink)) {
            errorSink.println(error);
        }
    }
    return result;
}

/**
 * Do line-based search for literal text in source file, returning line where found as a String in the form
 * {sourcePath}:line:column submitted to the collecting parameter sink. Any error is rendered to String and returned as the
 * result.
 * 
 * @param sought the String text to seek in the file
 * @param sources the List of String paths to the source files
 * @param listAll if false, only list first match in file
 * @param List sink the List for String entries of the form {sourcePath}:line:column
 * @return String error if any, or add String entries to sink
 */
public static String lineSeek(String sought, String sourcePath, boolean listAll, ArrayList<String> sink) {
    if (LangUtil.isEmpty(sought) || LangUtil.isEmpty(sourcePath)) {
        return "nothing sought";
    }
    if (LangUtil.isEmpty(sourcePath)) {
        return "no sourcePath";
    }
    final File file = new File(sourcePath);
    if (!file.canRead() || !file.isFile()) {
        return "sourcePath not a readable file";
    }
    int lineNum = 0;
    FileReader fin = null;
    try {
        fin = new FileReader(file);
        BufferedReader reader = new BufferedReader(fin);
        String line;
        while (null != (line = reader.readLine())) {
lineNum++;
int loc = line.indexOf(sought);
if (-1 != loc) {
sink.add(sourcePath + ":" + lineNum + ":" + loc);
if (!listAll) {
break;
}
}
}

} catch (IOException e) {
return LangUtil.unqualifiedClassName(e) + " reading " + sourcePath + ":" + lineNum;
}
finally {
try {
if (null != fin) {
fin.close();
}
} catch (IOException e) {
// ignore
}
return null;
}

public static BufferedOutputStream makeOutputStream(File file) throws FileNotFoundException {
File parent = file.getParentFile();
if (parent != null) {
parent.mkdirs();
}
return new BufferedOutputStream(new FileOutputStream(file));
}

/**
 * Sleep until after the last last-modified stamp from the files.
 * @param files the File[] of files to inspect for last modified times (this ignores null or empty files array and null or
 * non-existing components of files array)
 * @return true if succeeded without 100 interrupts
 */
public static boolean sleepPastFinalModifiedTime(File[] files) {
if ((null == files) || (0 == files.length)) {
return true;
}
long delayUntil = System.currentTimeMillis();
for (int i = 0; i < files.length; i++) {
File file = files[i];
if ((null == file) || !file.exists()) {
continue;
}
long nextModTime = file.lastModified();
if (nextModTime > delayUntil) {
    delayUntil = nextModTime;
}
}
return LangUtil.sleepUntil(++delayUntil);
}

private static void listClassFiles(final File baseDir, ArrayList<File> result) {
    File[] files = baseDir.listFiles();
    for (int i = 0; i < files.length; i++) {
        File f = files[i];
        if (f.isDirectory()) {
            listClassFiles(f, result);
        } else {
            if (f.getName().endsWith(".class")) {
                result.add(f);
            }
        }
    }
}

private static void listFiles(final File baseDir, ArrayList<File> result, FileFilter filter) {
    File[] files = baseDir.listFiles();
    // hack https://bugs.eclipse.org/bugs/show_bug.cgi?id=48650
    final boolean skipCVS = (!PERMIT_CVS && (filter == aspectjSourceFileFilter));
    for (int i = 0; i < files.length; i++) {
        File f = files[i];
        if (f.isDirectory()) {
            if (skipCVS) {
                String name = f.getName().toLowerCase();
                if ("cvs".equals(name) || "sccs".equals(name)) {
                    continue;
                }
            }
            listFiles(f, result, filter);
        } else {
            if (filter.accept(f)) {
                result.add(f);
            }
        }
    }
}

/** @return true if input is not null and contains no path separator */
private static boolean isValidFileName(String input) {
    return ((null != input) && (-1 == input.indexOf(File.pathSeparator)));
}
private static void listFiles(final File baseDir, String dir, ArrayList<String> result) {
final String dirPrefix = (null == dir ? "" : dir + "/");
final File dirFile = (null == dir ? baseDir : new File(baseDir.getPath() + "/" + dir));
final String[] files = dirFile.list();
for (int i = 0; i < files.length; i++) {
File f = new File(dirFile, files[i]);
String path = dirPrefix + files[i];
if (f.isDirectory()) {
listFiles(baseDir, path, result);
} else {
result.add(path);
}
}
}
private FileUtil() {
}
public static List<String> makeClasspath(URL[] urls) {
List<String> ret = new LinkedList<String>();
if (urls != null) {
for (int i = 0; i < urls.length; i++) {
ret.add(toPathString(urls[i]));
}
}
return ret;
}
private static String toPathString(URL url) {
try {
return url.toURI().getPath();
} catch (URISyntaxException e) {
System.err.println("Warning!! Malformed URL may cause problems: "+url); // TODO: Better way to report this?
// In this case it was likely not using properly escaped
// characters so we just use the 'bad' method that doesn't decode
// special chars
return url.getPath();
}
}
/**
* A pipe when run reads from an input stream to an output stream, optionally sleeping between reads.
*
* @see #copyStream(InputStream, OutputStream)
*/
public static class Pipe implements Runnable {
private final InputStream in;
private final OutputStream out;

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private final long sleep;
private ByteArrayOutputStream snoop;
private long totalWritten;
private Throwable thrown;
private boolean halt;
/**
 * Seem to be unable to detect erroneous closing of System.out...
 */
private final boolean closeInput;
private final boolean closeOutput;
/**
 * If true, then continue processing stream until no characters are returned when halting.
 */
private boolean finishStream;

private boolean done; // true after completing() completes

/**
 * alias for <code>Pipe(in, out, 100l, false, false)</code>
 *
 * @param in the InputStream source to read
 * @param out the OutputStream sink to write
 */
Pipe(InputStream in, OutputStream out) {
    this(in, out, 100l, false, false);
}

/**
 * @param in the InputStream source to read
 * @param out the OutputStream sink to write
 * @param tryClosingStreams if true, then try closing both streams when done
 * @param sleep milliseconds to delay between reads (pinned to 0..1 minute)
 */
Pipe(InputStream in, OutputStream out, long sleep, boolean closeInput, boolean closeOutput) {
    LangUtil.throwIaxIfNull(in, "in");
    LangUtil.throwIaxIfNull(out, "out");
    this.in = in;
    this.out = out;
    this.closeInput = closeInput;
    this.closeOutput = closeOutput;
    this.sleep = Math.min(0l, Math.max(60l * 1000l, sleep));
}

public void setSnoop(ByteArrayOutputStream snoop) {
    this.snoop = snoop;
}
/**
 * Run the pipe. This halts on the first Throwable thrown or when a read returns -1 (for end-of-file) or on demand.
 */

public void run() {
    totalWritten = 0;
    if (halt) {
        return;
    }
    try {
        final int MAX = 4096;
        byte[] buf = new byte[MAX];
        // TODO this blocks, hanging the harness
        int count = in.read(buf, 0, MAX);
        ByteArrayOutputStream mySnoop;
        while ((halt && finishStream && (0 < count)) || (!halt && (-1 != count))) {
            out.write(buf, 0, count);
            mySnoop = snoop;
            if (null != mySnoop) {
                mySnoop.write(buf, 0, count);
            }
            totalWritten += count;
            if (halt && !finishStream) {
                break;
            }
            if (!halt && (0 < sleep)) {
                Thread.sleep(sleep);
            }
            if (halt && !finishStream) {
                break;
            }
            count = in.read(buf, 0, MAX);
        }
        } catch (Throwable e) {
            thrown = e;
        } finally {
            halt = true;
            if (closeInput) {
                try {
                    in.close();
                } catch (IOException e) {
                    // ignore
                }
            }
            if (closeOutput) {
                try {
                    out.close();
                } catch (IOException e) {
                    // ignore
                }
            } catch (IOException e) {
                throw new RuntimeException(e);
            }
        }
    } catch (IOException e) {
        throw new RuntimeException(e);
    } finally {
        halt = true;
        if (closeInput) {
            try {
                in.close();
            } catch (IOException e) {
                // ignore
            }
        }
        if (closeOutput) {
            try {
                out.close();
            } catch (IOException e) {
                // ignore
            }
        }
    }
done = true;
completing(totalWritten, thrown);
}

/**
 * Tell the pipe to halt the next time it gains control.
 * @param wait if true, this waits synchronously until pipe is done
 * @param finishStream if true, then continue until a read from the input stream returns no bytes, then halt.
 * @return true if <code>run()</code> will return the next time it gains control
 */
public boolean halt(boolean wait, boolean finishStream) {
    if (!halt) {
        halt = true;
    }
    if (wait) {
        while (!done) {
            synchronized (this) {
                notifyAll();
            }
            if (!done) {
                try {
                    Thread.sleep(5l);
                } catch (InterruptedException e) {
                    break;
                }
            }
        }
        return halt;
    }

    /** @return the total number of bytes written */
    public long totalWritten() {
        return totalWritten;
    }

    /** @return any exception thrown when reading/writing */
    public Throwable getThrown() {
        return thrown;
    }

    /**
     * This is called when the pipe is completing. This implementation does nothing. Subclasses implement this to get
protected void completing(long totalWritten, Throwable thrown) {
}

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1.10 aws-java-sdk-core 1.11.222
1.11 aws-java-sdk-marketplacemeteringservice 1.11.222

1.12 bcpkix-jdk15on 1.56

1.13 Bean Validation API 1.1.0.Final

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1.14 bootstrap 3.3.7

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1.15 caffeine 2.6.2

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File: orm-busy.trace.xz
Description: Database object access of a e-commerce web application during a busy daytime.

File: orm-night.trace.xz
Description: Database object access of a e-commerce web application during the night time.
File: web07.trace.xz  
Description: Normalized access trace (HTTP requests) a product detail page in July 2013.

File: web12.trace.xz  
Description: Normalized access trace (HTTP requests) on a product detail page in December 2013.

Format: The accessed objects comprise of a mixture of product inventory, availability per price and also customer data. Objects are keyed by type, id and a index (e.g. the 3rd price of a product). All data is normalized into numbers starting at 0 (or 1 for sub-ids) and then collapsed into a single integer consisting of,
- Bits 27-31: type
- Bits 9-26: id
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Other developers who have contributed code are:

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1.40 json 20180813

1.41 kubernetes-api 3.0.8

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Upstream Authors:

Eliot Horowitz
Dwight Merriman
Aaron Staple
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mgo - MongoDB driver for Go

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mgo - MongoDB driver for Go

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JMS Client for Pivotal RabbitMQ 1.4.6 GA

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1.56 rxjs 5.4.1

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1.57 slf4j 1.7.30

1.58 slf4j 1.7.29

1.59 Spring Cloud Greenwich.SR4

1.60 spring framework 5.1.16

1.61 spring-boot 2.1.15

1.62 spring-context-support 4.3.18.RELEASE
1.63 springfox swagger2 2.6.1

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1.65 tomcat-embed-core 9.0.36

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The original XML Schemas for Java EE Deployment Descriptors:
- javae_5.xsd
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- javae_web_services_client_1_2.xsd
- javae_6.xsd
- javae_web_services_1_3.xsd
- javae_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javae_7.xsd
- javae_web_services_1_4.xsd
- javae_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
1.66 velocity 1.7

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1.67 xss-filters 1.2.6

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Authors: Nera Liu <neraliu@yahoo-inc.com>
        Adonis Fung <adon@yahoo-inc.com>
        Albert Yu <alberthyu@yahoo-inc.com>

1.68 zjsonpatch 0.4.8
1.68.1 Available under license :

    package com.flipkart.zjsonpatch;

    import com.fasterxml.jackson.databind.JsonNode;
    import java.util.EnumSet;

    class CopyingApplyProcessor extends InPlaceApplyProcessor {
        
        CopyingApplyProcessor(JsonNode target) {
            this(target, CompatibilityFlags.defaults());
        }

        CopyingApplyProcessor(JsonNode target, EnumSet<CompatibilityFlags> flags) {
            super(target.deepCopy(), flags);
        }
    }

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