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1.10 angular 7.0.4
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```javascript
export class ContributorGroup {
  name: string;
  order: number;
  contributors: Contributor[];
}

export class Contributor {
  group: string;
  name: string;
  picture?: string;
  website?: string;
  twitter?: string;
  bio?: string;
  isFlipped ? = false;
}
```
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({});
        expect(req.request.url).toBe('generated/contributors.json');
    });

    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,GDE');
});

it('should have expected "GDE" contribs in order', () => {
  const gde = contribs[1];
  const actualAngularNames = gde.contributors.map(l => l.name).join(',');
  const expectedAngularNames = testData.jeffcross, testData.kapunahelewong.map(l => l.name).join(',');
  expect(actualAngularNames).toEqual(expectedAngularNames);
});

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

function getTestContribs() {
  return {
    kapunahelewong: {
      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',
      group: 'GDE'
    },
    misko: {
      name: 'Miko Hevery',
      picture: 'misko.jpg',
      twitter: 'mhevery',
      website: 'http://misko.hevery.com',
      bio: 'Miko Hevery is the creator of AngularJS framework.',
      group: 'Angular'
    },
    igor: {
      name: 'Igor Minar',
      picture: 'igor-minar.jpg',
      twitter: 'IgorMinar',
      website: 'https://google.com/+IgorMinar',
      bio: 'Igor is a software engineer at Angular.',
      group: 'Angular'
    },
    kara: {
      name: 'Kara Erickson',
      picture: 'kara-erickson.jpg',
      twitter: 'karaforthewin',
      website: 'https://github.com/kara',
    }
  }
}
import { NgModule, Type } from '@angular/core';
import { CommonModule } from '@angular/common';
import { ContributorListComponent } from './contributor-list.component';
import { ContributorService } from './contributor.service';
import { ContributorComponent } from './contributor.component';
import { WithCustomElementComponent } from '../element-registry';

@NgModule({
  imports: [ CommonModule ],
  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`
})
export class ContributorListComponent implements OnInit {
private groups: ContributorGroup[];
groupName: 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', '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];
          const group = contributor.group;
          const contribGroup = contribMap[group];
          if (contribGroup) {
            contribGroup.push(contributor);
          } else {
            contribMap[group] = [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 { 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 select 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 "GDE" 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: [] },
    { name: 'GDE', order: 1, 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>
            View Bio
          </a>
          <a *ngIf="person.twitter" mat-button class="icon" 
             href="https://twitter.com/{{person.twitter}}" target="_blank" (click)="$event.stopPropagation()"> 
            <span class="fa fa-twitter fa-2x"></span>
          </a>
          <a *ngIf="person.website" mat-button class="icon" 
             href="{{person.website}}" target="_blank" (click)="$event.stopPropagation()"> 
            <span class="fa fa-link fa-2x"></span>
          </a>
        </div>
      </div>
    </div>
  </div>`
})
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```
{  "misko": {  
  "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.

"igor": {
  "name": "Igor Minar",
  "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).",
  "group": "Angular"
}

"naomi": {
  "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. She supports Angular's internal Google users and solves hard-to-define problems. She's been at Google since 2006, as a technical program manager on projects ranging from Accessibility to Google Transit. She fights daleks in her spare time.",
  "group": "Angular"
}

"brad": {
  "name": "Brad Green",
  "picture": "brad-green.jpg",
  "twitter": "bradlygreen",
  "website": "https://plus.google.com/+BradGreen",
  "bio": "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.",
  "group": "Angular"
}

"juleskremer": {
  "name": "Jules Kremer",
  "picture": "juleskremer.jpg",
  "twitter": "jules_kremer",
  "website": "https://plus.google.com/+JulesKremer",
  "bio": "Jules is Head of Angular Developer Relations at Google. When not working with developers, Jules is often bending into pretzel-like shapes, creating paths through thick jungle with a machete or drinking really"
awesome beer.
"group": "Angular"
},

"jelbourn": {
    "name": "Jeremy Elbourn",
    "picture": "jelbourn.jpg",
    "twitter": "jelbourn",
    "website": "https://plus.google.com/+JeremyElbourn/",
    "bio": "Angular Material Team Lead. FE Engineer @ Google specializing in AngularJS, component design, and the cleanest of code.",
    "group": "Angular"
},

"pete": {
    "name": "Pete Bacon Darwin",
    "picture": "pete.jpg",
    "twitter": "petebd",
    "website": "http://www.bacondarwin.com",
    "bio": "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.",
    "group": "Angular"
},

"stephenfluin": {
    "name": "Stephen Fluin",
    "picture": "stephenfluin.jpg",
    "twitter": "stephenfluin",
    "website": "https://plus.google.com/+stephenfluin",
    "bio": "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.",
    "group": "Angular"
},

"robwormald": {
    "name": "Rob Wormald",
    "picture": "rob-wormald.jpg",
    "twitter": "robwormald",
    "website": "http://github.com/robwormald",
    "bio": "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.",
    "group": "Angular"
},

"tobias": {
    "name": "Tobias Bosch",
    "picture": "tobias.jpg",
    "twitter": "tobias",
    "website": "https://plus.google.com/+TobiasBosch",
    "bio": "Tobias is a Developer Advocate working on the Angular team. He's the Angular team's resident reactive programming geek and founded the Reactive Extensions for Angular project, ngrx."
},
"twitter": "tbosch1009",
"website": "https://plus.google.com/+TobiasBosch",
"bio": "Tobias Bosch is a software engineer at Google. He is part of the Angular core team and works on Angular."
},
"group": "Angular"
},

"rado": {
"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)."
},
"group": "Angular"
},

"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."
},
"group": "Angular"
},

"martinprobst": {
"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."
},
"group": "Angular"
},

"julieralph": {
"name": "Julie Ralph",
"picture": "julie-ralph.jpg",
"twitter": "SomeJulie",
"bio": "Julie is a software engineer at Google in the AngularJS team. She holds a BSc in Computer Science from the University of Oxford, UK. Before joining the AngularJS team, she worked on a database startup in the Netherlands, and as a freelancer. In her free time, she likes to cook and sail, not necessarily at the same time."
},
"group": "Angular"
}
"bio": "Julie Ralph works as a Software Engineer in Test at Google in Seattle and is the lead developer on the Angular end-to-end testing framework Protractor."
}

"alexrickabaugh": {
"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."
}

"matias": {
"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."
}

"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."
}
"chuckj": {
    "name": "Chuck Jazdzewski",
    "picture": "chuckj.jpg",
    "twitter": "chuckjaz",
    "website": "http://removingalldoubt.com",
    "bio": "Chuck is a Software Engineer on the Angular team at Google. He is a programming language geek, UI framework and component library veteran, and has a passion for simplifying the task of programming. Before Google, he worked at Microsoft and Borland."
},

"vikram": {
    "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."
},

"maxsills": {
    "name": "Max Sills",
    "picture": "max-sills.jpg",
    "twitter": "angularjs",
    "website": "http://google-opensource.blogspot.com/",
    "bio": "Max Sills is Angular's Open Source lawyer."
},

"pawel": {
    "name": "Pawel Kozlowski",
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    "twitter": "pkozlowski_os",
    "bio": "Open source hacker, AngularJS book author, AngularUI lead developer. Pawel is an 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."
},

"paulgschwendtner": {
    "name": "Paul Gschwendtner",
    "picture": "devversion.jpg",
    "twitter": "DevVersion",
    "bio": ""
"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.",
"group": "Angular"
},

"elad": {
"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 programming. 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.",
"group": "Angular"
},

"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.",
"group": "Angular"
},

"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.",
"group": "Angular"
},

"martinstaffa": {
"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.",
"group": "Angular"
}
"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.",
    "group": "Angular"
},

"andrewseguin": {
    "name": "Andrew Seguin",
    "picture": "andrewseguin.jpg",
    "website": "http://github.com/andrewseguin",
    "bio": "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.",
    "group": "Angular"
},

"jesusrodriguez": {
    "name": "Jess Rodriguez",
    "picture": "jesus-rodriguez.jpg",
    "twitter": "foxandxss",
    "website": "http://angular-tips.com",
    "bio": "Jesus is an open source lover, a book author and editor, and AngularUI lead developer. He is currently a core contributor to the UI Bootstrap project.",
    "group": "Angular"
},

"crisbeto": {
    "name": "Kristiyan Kostadinov",
    "picture": "crisbeto.jpg",
    "website": "http://crisbeto.com/",
    "bio": "Kristiyan is a front-end developer, passionate open-source contributor and a core team member on Angular Material.",
    "group": "Angular"
},

"gkalpak": {
    "name": "Georgios Kalpakas",
    "picture": "gkalpak.jpg",
    "twitter": "gkalpakas",
    "website": "https://github.com/gkalpak",
    "bio": "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?)",
  "group": "Angular"
],
  "mmalerba": {
    "name": "Miles Malerba",
    "picture": "mmalerba.jpg",
    "bio": "Miles is a software engineer on the Angular Material team at Google. In addition to Javascripting he enjoys eating food and ogling cute puppies.",
    "group": "Angular"
],
  "jasonaden": {
    "name": "Jason Aden",
    "picture": "jasonaden.jpg",
    "bio": "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.).",
    "group": "Angular"
],
  "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.",
    "group": "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.",
    "group": "GDE"
],
  "deborah": {
    "name": "Deborah Kurata",
    "picture": "deborah.jpg",
    "twitter": "deborahkurata",
    "website": "http://blogs.msmvps.com/deborahk/"}
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,

"group": "GDE"
},

"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.",
    "group": "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.",
    "group": "GDE"
},

"wassim": {
    "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.",
    "group": "GDE"
},

"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",
    "group": "GDE"
"jorgeucano": {
    "name": "Jorge Cano",
    "picture": "jorgeucano.jpg",
    "twitter": "jorgeucano",
    "website": "https://medium.com/@jorgeucano",
    "bio": "Jorge is a Full Stack Developer in ByteDefault, a professor for several courses related to JavaScript, a
    speaker, and an author of technical articles and the book "Entendiendo Angular." He is a Google Developer Expert
    in web technologies (nominated by Google) and a NativeScript Developer Expert (nominated by Telerik).",
    "group": "GDE"
},

"toddmotto": {
    "name": "Todd Motto",
    "picture": "toddmotto.jpg",
    "twitter": "toddmotto",
    "website": "https://ultimateangular.com",
    "bio": "Owner and trainer at Ultimate Angular. Lives in England, UK. Has a love for teaching, OSS and speaking
    at conferences. Google Developer Expert for Web Technologies and Angular.",
    "group": "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.",
    "group": "Angular"
},

"mikebrocchi": {
    "name": "Mike Brocchi",
    "picture": "mike-brocchi.jpg",
    "twitter": "brocco",
    "bio": "Mike is a core team member of the Angular CLI team, a GDE and is also an instructor at egghead. Mike is
    passionate about helping others by writing code as well as teaching.",
    "group": "Angular"
},

"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.
   "group": "GDE"
},

"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."
   "group": "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."
   "group": "GDE"
},

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   "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. Author of the books 'Switching to Angular 2' and 'Getting Started with Angular', speaker and blogger. Working on tooling for Angular and TypeScript."
   "group": "GDE"
},

"uri": {
   "name": "Uri Shaked",
   "picture": "urish.jpg",
   "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."
   "group": "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",
  "group": "GDE"
},

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  "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.",
  "group": "GDE"
},

"filipbech": {
  "name": "Filip Bruun Bech-Larsen",
  "picture": "filipbech.jpg",
  "twitter": "filipbech",
  "website": "http://filipbech.github.io/",
  "bio": "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.",
  "group": "GDE"
},

"ocombe": {
  "name": "Olivier Combe",
  "picture": "ocombe.jpg",
  "twitter": "ocombe",
  "bio": "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. Hes a member of the Angular Core team and works on i18n.",
  "group": "Angular"
},

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  "name": "Ciro Nunes",
  "bio": "",
  "group": "",
  "twitter": "",
  "website": "",
  "picture": ""}
"picture": "cironunes.jpg",
"twitter": "cironunesdev",
"bio": "Ciro is the Lead Front-end Engineer of CrossEngage and Google Developer Expert in Web Technologies.",
"group": "GDE"
},

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"name": "Raul Jimnez",
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"twitter": "elecash",
"bio": "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.",
"group": "GDE"
},

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"name": "Lukas Ruebbelke",
"picture": "lukas.jpg",
"twitter": "simpulton",
"bio": "Developer. Hacker. Community backer. Author and blogger. Console logger.",
"group": "GDE"
},

"christianweyer": {
"name": "Christian Weyer",
"picture": "christianweyer.jpg",
"twitter": "ChristianWeyer",
"website": "https://www.thinktecture.com",
"bio": "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'.",
"group": "GDE"
},

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"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.",
"group": "GDE"
},

"danwahlin": {
"name": "Dan Wahlin",
"bio": "Dan Wahlin is a consultant, trainer, and author of books and articles on web technologies. He is the creator of the popular Angular.js tutorial, which has been viewed by millions of people around the world. He is also the founder of the popular Angular meetup group in Israel, and a frequent speaker at conferences and meetups around the world.",
"group": "GDE"
}
"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 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."

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"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."

"group": "GDE"
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"name": "Jecelyn Yeen",
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"website": "https://developers.google.com/experts/people/jecelyn-yeen",
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"group": "GDE"
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"twitter": "area51",
"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 ",
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},

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"twitter": "ThierryChatel",
"website": "http://www.methotic.com",
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"group": "GDE"
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"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.",
"group": "GDE"
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"name": "Austin McDaniel",
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"twitter": "amcdnl",
"website": "https://amcdnl.com",
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"group": "Angular"
},

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"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
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"group": "GDE"
},

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 "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'."
,"group": "GDE"
},

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 "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."
,"group": "GDE"
},

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 "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."
,"group": "GDE"
},

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 "picture": "juristr.jpg",
 "twitter": "juristr",
 "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.

"group": "GDE"
}

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    "twitter": "mashhoodr",
    "website": "http://imars.info/",
    "bio": "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."
    "group": "GDE"
}

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    "name": "Kim Maida",
    "picture": "kimmaida.jpg",
    "twitter": "KimMaida",
    "website": "https://kmaida.io/",
    "bio": "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."
    "group": "GDE"
}

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    "name": "Elana Olson",
    "picture": "elanaolson.jpg",
    "twitter": "elanathellama",
    "bio": "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."
    "group": "Angular"
}

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    "name": "Kevin Yang",
    "picture": "kevinyang.jpg",
    "twitter": "chgc",
    "website": "https://blog.kevinyang.net/",
    "bio": "Kevin is a Angular Taiwan, Angular Girls Taiwan community organizer. He loves sharing knowledge with other developers through blogging, speaking, workshops."
    "group": "GDE"
}

"sajee": {


"name": "Sajeetharan Sinnathurai",
"picture": "sajee.jpg",
"twitter": "kokkisajee",
"website": "https://sajeetharan.herokuapp.com/",
"bio": "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.",
"group": "GDE"
},

"lacolaco": {
  "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.",
  "group": "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.",
  "group": "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.",
  "group": "GDE"
}

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1.11 Angular local storage 0.0.1
1.11.1 Available under license:

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1.12 angular-bootstrap 2.5.0
1.12.1 Available under license:

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1.13 angular-sortablejs 2.6.0

1.13.1 Available under license:
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1.14 Angular-UI map 0.5.0 :(2013-12-28)

1.14.1 Available under license:
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1.15 angular-ui-calendar 0.9.0-beta.1
1.15.1 Available under license :

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1.16 angular-ui-grid 4.6.6
1.16.1 Available under license :

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1.17 angular-visjs .0.0.2

1.17.1 Available under license :

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webmaster
(last updated by reagle on 1999/04/99.)

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(last updated $Date: 2002-12-10 03:15:21 +1100 (Tue, 10 Dec 2002) $)

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To obtain the source code for the 1.6R5 release of Rhino, issue the following commands:

cvs -d :pserver:anonymous@cvs-mirror.mozilla.org:/cvsroot \

The patch is available here:

https://bugzilla.mozilla.org/attachment.cgi?id=288467

which is attached to this bug:

https://bugzilla.mozilla.org/show_bug.cgi?id=367627

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The Rhino jar also includes four classes:
org.mozilla.javascript.tools.debugger.downloaded.AbstractCellEditor.java
org.mozilla.javascript.tools.debugger.downloaded.JTreeTable.java
org.mozilla.javascript.tools.debugger.downloaded.TreeTableModel.java
org.mozilla.javascript.tools.debugger.downloaded.TreeTableModelAdapter.java
Which come from:
http://java.sun.com/products/jfc/tsc/articles/treetable2

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  icon-general.png (originally preferences-desktop.png)
  icon-language.png (originally preferences-desktop-locale.png)
  icon-network.png (originally applications-internet.png)
  icon-security.png (originally dialog-warning.png)
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  media-playback-pause.png
  media-playback-start.png
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  redo.png (modified version of edit-redo.png)
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<th>File</th>
<th>Original filename</th>
</tr>
</thead>
<tbody>
<tr>
<td>zoom-in.png</td>
<td>viewmag+.png</td>
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<tr>
<td>zoom-out.png</td>
<td>viewmag-.png</td>
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1.33 boost 1.57.0

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1.35 Bootstrap 3.3.7

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit
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You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major
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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in
HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.

David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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@item
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Sections 1 and 2 above); and, if the work is an executable linked
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uses the Library`, as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
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Use a suitable shared library mechanism for linking with the Library. A
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properly with a modified version of the library, if the user installs
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Doug Lea

1.65 Hamcrest Library 1.3

1.66 hamcrest-core 1.3

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 */

//$Id: Permission.java 10977 2006-12-12 23:28:04Z steve.ebersole@jboss.com$
package org.hibernate.test.collection.original;
/**
 * @author Gavin King
 */
public class Permission {
    private String type;
    Permission() {}
    public String getType() {
        return type;
    }
    public void setType(String type) {
        this.type = type;
    }
    public Permission(String type) {
        this.type = type;
    }
    public boolean equals(Object that) {
        if ( !(that instanceof Permission) ) return false;
        Permission p = (Permission) that;
        return this.type.equals(p.type);
    }
    public int hashCode() {
        return type.hashCode();
    }
}
/*
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 */
package org.hibernate.test.type.contributor;

import java.util.List;
import javax.persistence.Entity;
import javax.persistence.Id;
import javax.persistence.Table;
import org.hibernate.annotations.Type;
import org.hibernate.cfg.Configuration;
import org.hibernate.query.Query;
import org.hibernate.testing.TestForIssue;
import org.hibernate.testing.junit4.BaseCoreFunctionalTestCase;
import org.hibernate.test.collection.custom.basic.MyList;
import org.junit.Test;
import static org.hibernate.testing.transaction.TransactionUtil.doInHibernate;

import org.hibernate.test.transaction.TransactionUtil.doIn Hibernate;
import static org.junit.Assert.assertEquals;
import static org.junit.Assert.assertTrue;

/**
 * @author Vlad Mihalcea
 */
@TestForIssue(jiraKey = "HHH-11409")
public class ArrayTypeContributorTest extends BaseCoreFunctionalTestCae {

@Override
protected Class<?>[] getAnnotatedClasses() {
    return new Class[] { CorporateUser.class };
}

@Override
protected Configuration constructAndConfigureConfiguration() {
    Configuration configuration = super.constructAndConfigureConfiguration();
    configuration.registerTypeContributor((typeContributions, serviceRegistry) -> {
        typeContributions.contributeType(ArrayType.INSTANCE);
    });
    return configuration;
}

@Override
protected void prepareTest() throws Exception {
    doInHibernate(this::sessionFactory, session -> {
        CorporateUser user = new CorporateUser();
        user.setUserName("Vlad");
        session.persist(user);
        user.getEmailAddresses().add("vlad@hibernate.info");
        user.getEmailAddresses().add("vlad@hibernate.net");
    });
}

@Override
protected boolean isCleanupTestDataRequired() {
    return true;
}

@Test
public void test() {
    doInHibernate(this::sessionFactory, session -> {
        List<CorporateUser> users = session.createQuery("select u from CorporateUser u where u.emailAddresses = :address", CorporateUser.class)
            .setParameter("address", new Array(), ArrayType.INSTANCE)
            .getResultList();
    });
}
```java
assertTrue( users.isEmpty() );
}

@Test
public void testNativeSQL() {
    doInHibernate( this::sessionFactory, session -> {
        List<Array> emails = session.createNativeQuery(
            "select u.emailAddresses from CorporateUser u where u.userName = :name" )
            .setParameter( "name", "Vlad" )
            .getResultList();

        assertEquals( 1, emails.size() );
    } );
}

@Entity(name = "CorporateUser")
public static class CorporateUser {

    @Id
    private String userName;

    @Type(type = "comma-separated-array")
    private Array emailAddresses = new Array();

    public String getUserName() {
        return userName;
    }

    public void setUserName(String userName) {
        this.userName = userName;
    }

    public Array getEmailAddresses() {
        return emailAddresses;
    }
}

package org.hibernate.test.type.contributor;

import java.util.Arrays;
import org.hibernate.type.descriptor.WrapperOptions;
import org.hibernate.type.descriptor.java.AbstractTypeDescriptor;

/**
 */
public class ArrayTypeDescriptor extends AbstractTypeDescriptor<Array> {

    private static final String DELIMITER = ",";

    public static final ArrayTypeDescriptor INSTANCE = new ArrayTypeDescriptor();

    public ArrayTypeDescriptor() {
        super( Array.class );
    }

    @Override
    public String toString(Array value) {
        StringBuilder builder = new StringBuilder();
        for ( String token : value ) {
            if ( builder.length() > 0 ) {
                builder.append( DELIMITER );
            }
            builder.append( token );
        }
        return builder.toString();
    }

    @Override
    public Array fromString(String string) {
        if ( string == null || string.isEmpty() ) {
            return null;
        }
        String[] tokens = string.split( DELIMITER );
        Array array = new Array();
        array.addAll( Arrays.asList(tokens) );
        return array;
    }

    @SuppressWarnings("unchecked")
    public <X> X unwrap(Array value, Class<X> type, WrapperOptions options) {
        if ( value == null ) {
            return null;
        }
        if ( Array.class.isAssignableFrom( type ) ) {
            return (X) value;
        }
        if ( String.class.isAssignableFrom( type ) ) {
            return (X) toString( value);
        }
        throw unknownUnwrap( type );
    }
}
public <X> Array wrap(X value, WrapperOptions options) {
    if (value == null) {
        return null;
    }
    if (String.class.isInstance(value)) {
        return fromString((String) value);
    }
    if (Array.class.isInstance(value)) {
        return (Array) value;
    }
    throw unknownWrap(value.getClass());
}

package org.hibernate.test.type.contributor;

import java.util.ArrayList;

/**
 * @author Vlad Mihalcea
 */
public class Array extends ArrayList<String> {
    package org.hibernate.test.type.contributor;

    import org.hibernate.dialect.Dialect;
    import org.hibernate.type.AbstractSingleColumnStandardBasicType;
    import org.hibernate.type.DiscriminatorType;
    import org.hibernate.type.descriptor.sql.VarcharTypeDescriptor;

    /**
     * @author Vlad Mihalcea
     */
    public class ArrayType
            extends AbstractSingleColumnStandardBasicType<Array>
            implements DiscriminatorType<Array> {
        public static final ArrayType INSTANCE = new ArrayType();

        public ArrayType() {
            super(VarcharTypeDescriptor.INSTANCE, ArrayTypeDescriptor.INSTANCE);
        }

        @Override
        public Array stringToObject(String xml) throws Exception {
            return fromString(xml);
        }

        @Override
        public long getSqlType() {
            return VarcharTypeDescriptor.INSTANCE.getSqlType();
        }

        @Override
        public String getHibernateType() {
            return ArrayTypeDescriptor.INSTANCE.getHibernateType();
        }
    }

    public static final ArrayType INSTANCE = new ArrayType();

    public ArrayType() {
        super(VarcharTypeDescriptor.INSTANCE, ArrayTypeDescriptor.INSTANCE);
    }

    @Override
    public Array stringToObject(String xml) throws Exception {
        return fromString(xml);
    }
}
@Override
d public String objectToSQLString(Array value, Dialect dialect) throws Exception {
    return toString( value );
}

@Override
d public String getName() {
    return "comma-separated-array";
}

} /*
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 */

//@Id$ package org.hibernate.test.annotations.manytomany;
import java.util.Date;
import javax.persistence.Entity;
import javax.persistence.Id;

/**
 * @author Emmanuel Bernard
 */
@Entity
public class Permission {
    private String permission;
    private Date expirationDate;

    @Id
    public String getPermission() {
        return permission;
    }

    public void setPermission(String permission) {
        this.permission = permission;
    }

    public Date getExpirationDate() {
        return expirationDate;
    }

    public void setExpirationDate(Date expirationDate) {
        this.expirationDate = expirationDate;
    }
}
package org.hibernate.test.version.sybase;
import java.util.Date;

/**
 * Implementation of Permission.
 *
 * @author Steve Ebersole
 */

public class Permission {
    private Long id;
    private Date timestamp;
    private String name;
    private String context;
    private String access;

    public Permission() {
    }

    public Permission(String name, String context, String access) {
        this.name = name;
        this.context = context;
        this.access = access;
    }

    public Long getId() {
        return id;
    }

    public void setId(Long id) {
        this.id = id;
    }

    public Date getTimestamp() {
        return timestamp;
    }

    public void setTimestamp(Date timestamp) {
        this.timestamp = timestamp;
    }

    public void setId(Long id) {
        this.id = id;
    }

    public Date getTimestamp() {
        return timestamp;
    }

    public void setTimestamp(Date timestamp) {
        this.timestamp = timestamp;
    }

    // $Id: Permission.java 7805 2005-08-10 16:25:11Z steveebersole $
public String getName() {
    return name;
}

public void setName(String name) {
    this.name = name;
}

public String getContext() {
    return context;
}

public void setContext(String context) {
    this.context = context;
}

public String getAccess() {
    return access;
}

public void setAccess(String access) {
    this.access = access;
}

package org.hibernate.test.version.db;
import java.util.Date;

/**
 * Implementation of Permission.
 *
 * @author Steve Ebersole
 */

public class Permission {
    private Long id;
    private Date timestamp;
    private String name;
    private String context;
    private String access;

    // $Id: Permission.java 7736 2005-08-03 20:03:34Z steveebersole $
    package org.hibernate.test.version.db;
    import java.util.Date;

    /**
     * Implementation of Permission.
     *
     * @author Steve Ebersole
     */
    public class Permission {
        private Long id;
        private Date timestamp;
        private String name;
        private String context;
        private String access;
public Permission() {
}

public Permission(String name, String context, String access) {
    this.name = name;
    this.context = context;
    this.access = access;
}

public Long getId() {
    return id;
}

public void setId(Long id) {
    this.id = id;
}

public Date getTimestamp() {
    return timestamp;
}

public void setTimestamp(Date timestamp) {
    this.timestamp = timestamp;
}

public String getName() {
    return name;
}

public void setName(String name) {
    this.name = name;
}

public String getContext() {
    return context;
}

public void setContext(String context) {
    this.context = context;
}

public String getAccess() {
    return access;
}

public void setAccess(String access) {
    this.access = access;
}
package org.hibernate.jpa.userguide.util;
import javax.persistence.FetchType;
import javax.persistence.ManyToOne;
import javax.persistence.MappedSuperclass;

/**
 * @author Emmanuel Bernard
 */
@MappedSuperclass
public abstract class CopyrightableContent {
   private Author author;

   public CopyrightableContent() {
   }

   public CopyrightableContent(Author author) {
      this.author = author;
   }

   @ManyToOne(fetch = FetchType.LAZY)
   private Author getAuthor() {
      return author;
   }

   private void setAuthor(Author author) {
      this.author = author;
   }
}

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This license, the Lesser General Public License, applies to some specially designated software packages—typically libraries—of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the entire work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a “work that uses the Library” with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer’s own use and reverse
engineering for debugging such modifications.

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Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable “work that
uses the Library”, as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user’s computer system,
rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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public class LatestAndGreatestConnectionProviderImplContributor
    implements ServiceContributor {
@Override
public void contribute(
        standardserviceregistrybuilder serviceregistrybuilder) {

    // here we will register a short-name for our service strategy
    strategyselector selector = serviceregistrybuilder
           .getbootstrapserviceregistry().
           getservice(strategyselector.class);

    selector.registerstrategyimplementor(
           connectionprovider.class,
           "lag"
           latestandgreatestconnectionproviderimpl.class
    );
}

public class LatestAndGreatestConnectionProviderImplContributor1
        implements ServiceContributor {

    @Override
    public void contribute(StandardServiceRegistryBuilder serviceRegistryBuilder) {
        serviceRegistryBuilder.addService(
                ConnectionProvider.class,
                new LatestAndGreatestConnectionProviderImpl()
        );
    }
}

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1.73 httpcomponents-client 4.5.6

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1.90 Jquery UI 1.12.1

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1.93 jul-to-slf4j 1.8.0-beta2

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the
Module-Build mailing list at <module-
build@perl.org>.'"
build_requires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: Module-Build
resources:
MailingList: mailto:module-build@perl.org
license: http://dev.perl.org/licenses/
repository: http://github.com/dagolden/module-build/
version: 3
use strict;
use lib 't/lib';
use MBTest;
use DistGen;

plan 'no_plan';

# Ensure any Module::Build modules are loaded from correct directory
blib_load('Module::Build');

#---------------------------------------------------------------#
# Create test distribution
#---------------------------------------------------------------#
{
my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'perl'
);
$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'perl',

---
"license 'perl' is valid"
);

my $meta = $mb-&gt;get_metadata( fatal =&gt; 0 );

is( $meta-&gt;{license} =&gt; 'perl', "META license will be 'perl'" );
is( $meta-&gt;{resources} {license}, "http://dev.perl.org/licenses/",
   "META license URL is correct" );
}

{
my $dist = DistGen-&gt;new(
   name =&gt; 'Simple::Name',
   version =&gt; '0.01',
   license =&gt; 'VaporWare'
);

$dist-&gt;regen;
$dist-&gt;chdir_in;

my $mb = $dist-&gt;new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb-&gt;license, 'VaporWare',
   "license 'VaporWare' is valid" );

my $meta = $mb-&gt;get_metadata( fatal =&gt; 0 );

is( $meta-&gt;{license} =&gt; 'unrestricted', "META license will be 'unrestricted'" );
is( $meta-&gt;{resources} {license}, "http://example.com/vaporware/",
   "META license URL is correct" );
}

# Test with alpha number
# vim:ts=2:sw=2:et:sta:sts=2
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1.115 perl-DBD-Informix 2005.02

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http://dbi.perl.org/

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1.116 perl-DBI 1.51
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diff -c -r bsd_indent/Makefile pg_bsd_indent/Makefile
*** bsd_indent/Makefile	Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/MakefileWed Oct 12 12:17:12 2011
***************
*** 2,10 ****
# Makefile

---
#
# ! TARGET = indent
# XFLAGS = -Wall -D__RCSID="static char *rcsid=" -D__COPYRIGHT="static char *copyright="
# CFLAGS = -g
LIBS =

$(TARGET) : args.o indent.o io.o lexi.o parse.o pr_comment.o
--- 2,10 ----
# Makefile
#
# ! TARGET = pg_bsd_indent
# XFLAGS = -Wall -D__RCSID="static char *rcsid=" -D__COPYRIGHT="static char *copyright="
# CFLAGS = -O
LIBS =

$(TARGET) : args.o indent.o io.o lexi.o parse.o pr_comment.o
**************
*** 31,37 ****
clean:
   rm -f *.o $(TARGET) log core

! install:
! make clean
! make CFLAGS=-O
   install -s -o bin -g bin $(TARGET) /usr/local/bin
--- 31,35 ----
clean:
   rm -f *.o $(TARGET) log core

! install: $(TARGET)
   install -s -o bin -g bin $(TARGET) /usr/local/bin
diff -c -r bsd_indent/README pg_bsd_indent/README
*** bsd_indent/README Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/README Mon Nov 14 19:30:24 2005
**************
*** 1,3 ****
--- 1,13 ----
+
+ This patch is from NetBSD current, 2005-11-14. It contains all the
+ patches need for its use in PostgreSQL.
+
+ bjm
+
+ ----------------------------------------------------------
This is the C indenter, it originally came from the University of Illinois via some distribution tape for PDP-11 Unix. It has subsequently been hacked upon by James Gosling @ CMU. It isn't very pretty, and really needs
diff -c -r bsd_indent/args.c pg_bsd_indent/args.c
*** bsd_indent/args.c Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/args.c Wed Oct 26 17:16:56 2011
***************
*** 83,88 ****
--- 83,90 ----
#include <string.h>
#include "indent_globs.h"

+ #define INDENT_PG_VERSION "1.1"
+
/* profile types */
#define PRO_SPECIAL /* special case */
#define PRO_BOOL /* boolean */
***************
*** 99,106 ****
--- 101,113 ----
#define STDIN /* use stdin */
#define KEY /* type (keyword) */

+ #define KEY_FILE /* only used for args */
+ #define VERSION /* only used for args */
+
char *option_source = "?";
+
void add_typedefs_from_file(char *str);
+
/*
 * N.B.: because of the way the table here is scanned, options whose names are
 * substrings of other options must occur later; that is, with -lp vs -l, -lp
***************
*** 118,123 ****
--- 125,136 ----
"T", PRO_SPECIAL, 0, KEY, 0
 },
{
+ "U", PRO_SPECIAL, 0, KEY_FILE, 0
+ },
+ {
+ "V", PRO_SPECIAL, 0, VERSION, 0
+ },
+ {
"bacc", PRO_BOOL, false, ON, &blanklines_around_conditional_compilation
}.

break;

+ case KEY_FILE:
+ if (*param_start == 0)
+ goto need_param;
+ add_typedefs_from_file(param_start);
+ break;
+
+ case VERSION:
+ {
+ printf("pg_bsd_indent %s\n", INDENT_PG_VERSION);
+ exit(0);
+ }
+ break;
+
+ default:
+ fprintf(stderr, "indent: set_option: internal error: p_special %d\n", p->p_special);
+ ***********************
+ *** 459,461 ****
--- 485,508 ----
exit(1);
}
}
+
+ void
+ add_typedefs_from_file(char *str)
+ {
+ FILE *file;
+ char line[BUFSIZ];
+ + if ((file = fopen(param_start, "r")) == NULL)
+ + {
+ fprintf(stderr, "indent: cannot open file %s\n", str);
+ exit(1);
+ }
+ + while ((fgets(line, BUFSIZ, file)) != NULL)
+ + {
+ /* Remove trailing whitespace */
+ *(line + strcspn(line, " \t\n\r")) = '\0';
+ addkey(strdup(line), 4);
+ }
+}

+ fclose(file);
+ }
Only in pg_bsd_indent: args.o
Only in pg_bsd_indent: indent.bsd.patch
Only in pg_bsd_indent: indent.o
diff -c -r bsd_indent/indent_globs.h pg_bsd_indent/indent_globs.h
*** bsd_indent/indent_globs.h Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/indent_globs.h Mon Nov 14 19:30:24 2005
***************
*** 239,245 ****
    scomf,/* Same line comment font */
    bodyf,/* major body font */
!
#define STACK_SIZE 150

EXTERN struct parser_state {
    int     last_token;
--- 239,249 ----
    scomf,/* Same line comment font */
    bodyf,/* major body font */

! /*
! * This controls the maximum number of 'else if' clauses supported.
! * If it is exceeded, comments are placed in column 100.
! */
! #define STACK_SIZE 1000

EXTERN struct parser_state {
    int     last_token;
Only in pg_bsd_indent: io.o
diff -c -r bsd_indent/lexi.c pg_bsd_indent/lexi.c
*** bsd_indent/lexi.c Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/lexi.c Mon Nov 14 19:30:24 2005
***************
*** 93,99 ****
    int     rwcode;
};

! struct templ specials[1000] =
    
    {"switch", 1},
    {"case", 2},
--- 93,99 ----
    int     rwcode;
};

! struct templ specials[16384] =
    

{"switch", 1},
{"case", 2},
***************
*** 622,629 ****
else
p++;
if (p >= specials + sizeof specials / sizeof specials[0])
! return/* For now, table overflows are silently
! * ignored */
p->rwd = key;
p->rwcode = val;
p[1].rwd = 0;
--- 622,632 ----
else
p++;
if (p >= specials + sizeof specials / sizeof specials[0])
!
!
! fprintf(stderr, "indent: typedef table overflow\n");
! exit(1);
! }
!
p->rwd = key;
p->rwcode = val;
p[1].rwd = 0;
Only in pg_bsd_indent: lexi.o
diff -c -r bsd_indent/parse.c pg_bsd_indent/parse.c
*** bsd_indent/parse.c Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/parse.c Mon Nov 14 19:30:24 2005
***************
*** 231,236 ****
--- 231,241 ----
}			/* end of switch */
+ if (ps.tos >= STACK_SIZE) {
+     fprintf(stderr, "indent: stack size overflow\n");
+     exit(1);
+ }
+
+ reduce();/* see if any reduction can be done */

#ifdef debug
Only in pg_bsd_indent: parse.o
diff -c -r bsd_indent/pr_comment.c pg_bsd_indent/pr_comment.c
*** bsd_indent/pr_comment.c Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/pr_comment.c Mon Nov 14 19:30:24 2005
***************
*** 148,154 ****
ps.box_com = true;  
ps.com_col = 1;  
}
else {  
  if (*buf_ptr == '-' || *buf_ptr == '*') {  
    ps.box_com = true;/* a comment with a '-', '*'  
* or newline immediately  
* after the start comment is  
--- 148,158 ----  
ps.box_com = true;  
ps.com_col = 1;  
}  
else {  
  /*  
  * Don't process 'n' or every comment is treated as a  
  * block comment, meaning there is no wrapping.  
  */  
  */  
  if (*buf_ptr == '-' || *buf_ptr == '*') {  
    ps.box_com = true;/* a comment with a '-', '*'  
* or newline immediately  
* after the start comment is  
***************  
*** 328,333 ****  
--- 332,350 ----  
goto end_of_comment;  
}  
} while (*buf_ptr == ' ' || *buf_ptr == '	');  
+  
+ /*  
+ * If there is a blank comment line, we need to prefix  
+ * the line with the same three spaces that "/* " takes up.  
+ * Without this code, blank stared lines in comments have  
+ * three too-many characters on the line when wrapped.  
+ */  
+ if (s_com == e_com) {  
+   *e_com++ = ' ';/* add blanks for continuation */  
+   *e_com++ = ' ';  
+   *e_com++ = ' ';  
+   now_col += 3;  
+ }  
} else  
if (++buf_ptr >= buf_end)  
fill_buffer();  
Only in pg_bsd_indent: pr_comment.o  
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</head>
<body class="sect1"
Notice and warning messages generated by the server are not returned by the query execution functions, since they do not imply failure of the query. Instead they are passed to a notice handling function, and execution continues normally after the handler returns. The default notice handling function prints the message on stderr, but the application can override this behavior by supplying its own handling function.

For historical reasons, there are two levels of notice handling, called the notice receiver and notice processor. The default behavior is for the notice receiver to format the notice and pass a string to the notice processor for printing. However, an application that chooses to provide its own notice receiver will typically ignore the notice processor layer and just do all the work in the notice receiver.

The function `PQsetNoticeReceiver` sets or
examines the current notice receiver for a connection object.

Similarly, `<CODE CLASS="FUNCTION">PQsetNoticeProcessor</CODE>`

sets or

examines the current notice processor.

```<PRE CLASS="SYNOPSIS">
typedef void (*PQnoticeReceiver) (void *arg, const PGresult *res);

PQnoticeReceiver
PQsetNoticeReceiver(PGconn *conn,
    PQnoticeReceiver proc,
    void *arg);

typedef void (*PQnoticeProcessor) (void *arg, const char *message);

PQnoticeProcessor
PQsetNoticeProcessor(PGconn *conn,
    PQnoticeProcessor proc,
    void *arg);
</PRE>
```

Each of these functions returns the previous notice receiver or
processor function pointer, and sets the new value. If you supply a
null function pointer, no action is taken, but the current pointer is
returned.

When a notice or warning message is received from the server, or
generated internally by `<SPAN CLASS="APPLICATION">libpq</SPAN>

the notice

receiver function is called. It is passed the message in the form of

a `<TT CLASS="SYMBOL">PGRES_NONFATAL_ERROR</TT`

`<TT CLASS="STRUCTNAME">PGresult</TT`

`<TT CLASS="SYMBOL">PGRES_NONFATAL_ERROR</TT>`

`<TT CLASS="STRUCTNAME">PGresult</TT>`

(This allows the receiver to extract

individual fields using `<CODE CLASS="FUNCTION">`
or obtain a complete preformatted message using <CODE CLASS="FUNCTION">PQresultErrorMessage</CODE> or <CODE CLASS="FUNCTION">PQresultVerboseErrorMessage</CODE>.) The same void pointer passed to <CODE CLASS="FUNCTION">PQsetNoticeReceiver</CODE> is also passed. (This pointer can be used to access application-specific state if needed.)

The default notice receiver simply extracts the message (using <CODE CLASS="FUNCTION">PQresultErrorMessage</CODE>) and passes it to the notice processor.

The notice processor is responsible for handling a notice or warning message given in text form. It is passed the string text of the message (including a trailing newline), plus a void pointer that is the same one passed to <CODE CLASS="FUNCTION">PQsetNoticeProcessor</CODE>. (This pointer can be used to access application-specific state if needed.)

The default notice processor is simply:

```
static void defaultNoticeProcessor(void *arg, const char *message)
{
    fprintf(stderr, "%s", message);
}
```

Once you have set a notice receiver or processor, you should expect
that function could be called as long as either the

<tt>
PGconn
</tt>

object or

<tt>
PGresult
</tt>

objects made

from it exist. At creation of a

<tt>
PGresult
</tt>

, the

<tt>
PGconn
</tt>

's current notice handling pointers are copied

into the

<tt>
PGresult
</tt>

for possible use by functions like

<code>
PQgetvalue
</code>

.
PostgreSQL Database Management System  
(formerly known as Postgres, then as Postgres95)  

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1.118 postgresql-jdbc 9.4-1208

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1.119 powermock-api-mockito-common 1.7.3

1.120 powermock-api-mockito2 1.7.3

1.121 powermock-api-support 1.7.3

1.122 powermock-core 1.7.3

1.123 powermock-module-testng 1.7.3

1.124 powermock-module-testng-common 1.7.3

1.125 powermock-reflect 1.7.3

1.126 python 2.7.8

1.126.1 Available under license:

```
.. highlightlang:: none

.. _history-and-license:

*******************
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```
History of the software
========================

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl/) in the Netherlands as a
successor of a language called ABC. Guido remains Python's principal author,
although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National
Research Initiatives (CNRI, see http://www.cnri.reston.va.us/) in Reston,
Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to
form the BeOpen PythonLabs team. In October of the same year, the PythonLabs
team moved to Digital Creations (now Zope Corporation; see
http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see
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|----------------+--------------+-----------+------------+-----------------|
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| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes             |
| 1.6            | 1.5.2        | 2000      | CNRI       | no              |
| 2.0            | 1.6          | 2000      | BeOpen.com | no              |
| 1.6.1          | 1.6          | 2001      | CNRI       | no              |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no              |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes             |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes             |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes             |
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Mersenne Twister
---------------

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html

email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

http://www.ietf.org/rfc/rfc1321.txt

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

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-----------------------

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UUencode and UUdecode functions

-----------------------------

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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-----------------------------

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test_epoll
---------

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-------------

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.132 sortablejs 1.7.0

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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 */

package org.springframework.test.context.junit4.orm.domain;

/* *
 * DriversLicense POJO.
 *
 * @author Sam Brannen
 * @since 3.0
 */

public class DriversLicense {

    private Long id;

    private Long number;
public DriversLicense() {
}

public DriversLicense(Long number) {
    this(null, number);
}

public DriversLicense(Long id, Long number) {
    this.id = id;
    this.number = number;
}

public Long getId() {
    return this.id;
}

protected void setId(Long id) {
    this.id = id;
}

public Long getNumber() {
    return this.number;
}

public void setNumber(Long number) {
    this.number = number;
}

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE hibernate-mapping PUBLIC "/Hibernate/Hibernate Mapping DTD//EN"
"http://hibernate.sourceforge.net/hibernate-mapping-3.0.dtd">

<hibernate-mapping auto-import="true" default-lazy="false">
    <class name="org.springframework.test.context.junit4.orm.domain.DriversLicense" table="drivers_license">
        <id name="id" column="id">
            <generator class="identity" />
        </id>
        <property name="number" column="license_number" />
    </class>
</hibernate-mapping>

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*/

package org.springframework.orm.jpa.domain;

import javax.persistence.Entity;
import javax.persistence.Id;
import javax.persistence.Table;

@Entity
@Table(name="DRIVERS_LICENSE")
public class DriversLicense {

@Id
private int id;

private String serial_number;

protected DriversLicense() {
}

public DriversLicense(String serialNumber) {
    this.serial_number = serialNumber;
}

public String getSerialNumber() {
    return serial_number;
}

}
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1.135 spring security 5.1.2

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package org.springframework.security.acls.model;

import java.io.Serializable;

/**
 * Represents a permission granted to a <tt>Sid</tt> for a given domain object.
 */
public interface Permission extends Serializable {

// ~ Static fields/initializers

 rencont
char RESERVED_ON = '~';
char RESERVED_OFF = '.';
String THIRTY_TWO_RESERVED_OFF = "...........................";

// ~ Methods

/**
 * Returns the bits that represents the permission.
 * @return the bits that represent the permission
 */
int getMask();

/**
 * Returns a 32-character long bit pattern String representing this
 * permission.
 * @return a 32-character bit pattern
 */
String getPattern();

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- jsp_2_2.xsd
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- web-common_3_0.xsd
- web-fragment_3_0.xsd
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- jsp_2_3.xsd
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- web-common_3_1.xsd
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1.147 zlib 1.2.5

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.5, April 19th, 2010

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The data format used by the zlib library is described by RFCs (Request for
Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt
(zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).
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1.148 zone.js 0.8.26
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