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```typescript
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',

            // More contributors...
        }
    }
}
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 ],
  exports: [ ContributorListComponent, ContributorComponent ]
})
export class ContributorModule { }
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[];
  groupNames: string[];
  selectedGroup: ContributorGroup;

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

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

  selectGroup(name: string) {
    name = name.toLowerCase();
this.selectedGroup = this.groups.find(g => g.name.toLowerCase() === name) || this.groups[0];
this.locationService.setSearch("", { group: this.selectedGroup.name });
}
}
import { Injectable } from '@angular/core';
import { HttpClient } from '@angular/common/http';

import { ConnectableObservable, Observable } from 'rxjs';
import { map, publishLast } from 'rxjs/operators';

import { Contributor, ContributorGroup } from './contributors.model';

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

const contributorsPath = CONTENT_URL_PREFIX + 'contributors.json';
const knownGroups = ['Angular', '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 => {
      })});
    );
    return contributors;
  }
}
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 set the query to the "GDE" group when user selects "GDE"', () => {
  component = getComponent();
  component.selectGroup('GDE');
  expect(locationService.searchResult['group']).toBe('GDE');
});

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

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

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

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

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

function getTestData(): ContributorGroup[] {
  return [
    // Not interested in the contributors data in these tests
    { name: 'Angular', order: 0, contributors: [] },
    { 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>
      <div class="card-back">...
    </div>
  </div>`
})
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  "misko": {
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    "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.",
    "group": "Angular"
  },

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    "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).",
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  },

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    "name": "Naomi Black",
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    "group": "Angular"
  },

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    "name": "Brad Green",
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    "group": "Angular"
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}
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"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.",
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},

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

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"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.",
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},

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"name": "Stephen Fluin",
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"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"

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  "name": "Rob Wormald",
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  "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."
}

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  "name": "Tobias Bosch",
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  "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."
}

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  "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)."
}

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  "name": "Alex Eagle",
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  "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."
}


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  "name": "Martin Probst",
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  "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"
},

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  "group": "Angular"
},

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  "name": "Alex Rickabaugh",
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  "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.",
  "group": "Angular"
},

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  "name": "Matias Niemela",
  "picture": "matias.jpg",
  "twitter": "yearofmoo",
  "website": "http://yearofmoo.com",
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    "website": "https://github.com/EladBezalel",
    "bio": "Elad is a fullstack developer with a very strong love for design. Since 8 years old, he's been designing in Photoshop and later on fell in love with programing. This strong bond between design and computer programming gave birth to a new kind of love. And he is currently doing the combination of both, as a core member of the ngMaterial project.",
    "group": "Angular"
},

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    "name": "Marc Laval",
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},

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

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"group": "Angular"
},

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```
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  "crisbeto": {
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    "group": "Angular"
  },
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    "name": "Miles Malerba",
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    "group": "Angular"
  },
  "jasonaden": {
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  },
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    "group": "GDE"
  }
}
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    "group": "GDE"
},

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    "group": "GDE"
},

"alyssa": {
    "name": "Alyssa Nicoll",
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    "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"
},

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    "name": "Ralph Wang",
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    "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"
},

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    "twitter": "manekinekko",
    "bio": "Wassim Chegham 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."
"website": "https://medium.com/@wassimchegham",
"bio": "Wassim (aka manekeinekko 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"
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"chrisnoring": {
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"twitter": "chris_noring",
"website": "softchris.github.io",
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"group": "GDE"
},

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"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"
},

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"group": "GDE"
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"twitter": "splaktar",
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"group": "Angular"
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  "name": "Mike Brocchi",
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  "group": "Angular"
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  "name": "Manfred Steyer",
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  "group": "GDE"
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  "group": "GDE"
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  "group": "GDE"
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  "name": "Minko Gechev",
  "picture": "minko.jpg",
  "twitter": "mgechev",
  "website": "http://blog.mgechev.com",
...
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"
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  "group": "Angular"
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  "group": "GDE"
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  "twitter": "simpulton",
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  "group": "GDE"
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  "twitter": "ChristianWeyer",
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"group": "GDE"
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    "twitter": "DanWahlin",
    "website": "https://codewithdan.com",
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  "group": "GDE"
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  "twitter": "ThierryChatel",
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  "bio": "Thierry is a senior consultant and trainer, specialized on Angular, and a Google Developer Expert."

  "group": "GDE"
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  "website": "https://medium.com/@gerard.sans",
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  "group": "GDE"
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  "group": "GDE"
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  "twitter": "AlainChautard",
  "website": "http://www.angulartraining.com",
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  "group": "GDE"
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  "group": "GDE"
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"group": "Angular"
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"twitter": "chgc",
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"group": "GDE"
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"twitter": "kokkisajee",
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"group": "GDE"
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"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"
},

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"picture": "katerina.jpg",
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"website": "https://mandarini.github.io/",
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"group": "GDE"
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  "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

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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

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1.16 angular-ui-grid 4.6.6

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1.17 angular-visjs .0.0.2

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**1.18 angular2-draggable 1.4.2**

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          <label class="element-invisible" for="edit-search-block-form--2">Search </label>
          <input title="Enter the terms you wish to search for." type="text" id="edit-search-block-form--2" name="search_block_form" value="" size="15" maxlength="128" class="form-text" />
        </div>
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    <h2 class="title">Navigation</h2>
    <div class="content">
      <ul class="menu">
        <li class="first collapsed"><a href="/about" title="About the Open Source Initiative">About the OSI</a>/a</li>
        <li class="collapsed"><a href="/osd" title="The actual OSD defining what constitutes an Open Source licence">The Open Source Definition</a>/a</li>
        <li class="collapsed"><a href="/licenses" title="Open Source Licenses">Open Source Licenses</a>/a</li>
        <li class="leaf"><a href="/working_groups" title="Working Groups">Working Groups</a>/a</li>
        <li class="leaf"><a href="/faq" title="Frequently Asked Questions about open source and about the OSI.">FAQ</a>/a</li>
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* m4/ax_func_which_gethostbyname_r.m4

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

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 (dossier@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 (age@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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1.58 gson 2.8.5

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Doug Lea

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4.0.5.Final

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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 static org.junit.Assert.assertEquals;
import static org.junit.Assert.assertTrue;

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

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

    @Override
    protected Configuration constructAndConfigureConfiguration() {
    }

    public class CorporateUser {
        @Type(type = "org.hibernate.test.type.contributorArrayType")
        private String[] types;
    }

    public static void main(String[] args) {
        Configuration config = new Configuration().configure("hibernate.properties");
        SessionFactory factory = config.buildSessionFactory();
        Session session = factory.openSession();
        Transaction tx = session.beginTransaction();
        CorporateUser user = new CorporateUser();
        user.types = new String[] { "READ", "WRITE", "DELETE" };
        session.save(user);
        tx.commit();
        tx.close();
    }
}
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();

    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;

/**
 * @author Vlad Mihalcea
 */
public class ArrayTypeDescriptor extends AbstractTypeDescriptor<Array> {

private static final String DELIMITER = ",";

public static final ArrayTypeDescriptor INSTANCE = new ArrayTypeDescriptor();

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 ) {
        builder.append(token);
    }
    return builder.toString();
}


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 String objectToSQLString(Array value, Dialect dialect) throws Exception {
            return toString( value );
        }

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

    }

    */

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     */
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;
    }

}
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;
    }

    public String toString() {
        return "id: " + id + " name: " + name + " context: " + context + " access: " + access;
    }
}

public class PermissionExample {
    public static void main(String[] args) {
        Permission permission = new Permission("Read", "File", "Get");
        System.out.println(permission.toString());
    }
}


public String getAccess() {
    return access;
}

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

/**<*
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 * 
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 */

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

    @author Steve Ebersole
*/
}
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;

/**
 * Hibernate, Relational Persistence for Idiomatic Java
 * 
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 *
 * 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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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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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
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specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

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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
        .getbootsrapserviceregistry().
        .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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1.66 httpcomponents-client 4.5.6

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1.81 jQuery 1.12.4

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1.82 Jquery UI 1.12.1

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1.84 jsoup 1.7.3

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1.85 jul-to-slf4j 1.8.0-beta2

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1.86 leaflet 1.3.4

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1.90 moment-timezone 0.5.23

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      (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.)

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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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1.103 perl 5.16.3 :286.el7

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Julian Seward, jsward@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->get_metadata( fatal => 0 );
  is( $meta->{license} => 'perl', "META license will be 'perl'" );
  is( $meta->{resources}{license}, "http://dev.perl.org/licenses/",
    "META license URL is correct"
  );
}

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

  $dist->regen;
  $dist->chdir_in;

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

  my $meta = $mb->get_metadata( fatal => 0 );
  is( $meta->{license} => 'unrestricted', "META license will be 'unrestricted'" );
  is( $meta->{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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<one line to give the program's name and a brief idea of what it does.>
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The End
1.104 perl-DBD-Informix 2005.02

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1.105 perl-DBI 1.51
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1.106 Postgresql 9.6.12

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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/Makefile Wed 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/READMEMon Nov 14 19:30:24 2005
***************
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	1	/* special case */
#define PRO_BOOL	2	/* boolean */
***************
*** 99,106 ****
--- 101,113 ----
#define STDIN		3	/* use stdin */
#define KEY		4	/* type (keyword) */

+ #define KEY_FILE		5	/* only used for args */
+ #define VERSION			6	/* 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
},
{
***************
*** 425,430 ****
--- 438,456 ----
} 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;
    *** 91,96 ****
    };

! 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.cWed Oct 26 17:13:34 2011
--- pg_bsd_indent/pr_comment.cMon Nov 14 19:30:24 2005
***************
*** 148,154 ****
ps.box_com = true;
ps.com_col = 1;
} else {
  if (*buf_ptr == '-' || *buf_ptr == '*' || *buf_ptr == 'n') {
    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 == 'n') {
   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 == 't');
+
+ /*
+ * 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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<html>
<head>
<meta name="GENERATOR" content="Modular DocBook HTML Stylesheet Version 1.79" />
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</head>
<body>

---

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TITLE="Event System"

<body>

<title>Event System</title>

<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">

<h1>Title: Event System</h1>

<p>The Event System is a crucial component of the PowerVu Network Center, providing real-time monitoring and control capabilities. It allows for the management of various events related to the network, such as connection failures, system restarts, and user actions. By integrating with other modules, it enables a comprehensive view of the network's status and helps in proactive troubleshooting and maintenance.</p>

<p>Key features of the Event System include:</p>

- **Event Logging:** Tracks all significant events, ensuring no critical information is overlooked.
- **Alert Management:** Enables automated notification of critical events to relevant parties.
- **Customization:** Allows users to define specific events and thresholds for monitoring.
- **Integration:** Connects seamlessly with other components for enhanced functionality.

<p>Usage examples and detailed configurations can be found in the accompanying documentation. For more in-depth analysis and advanced configurations, refer to the advanced features section.</p>

<p>Access the latest version of the PowerVu Network Center documentation for further guidance.</p>

</body>
Chapter 32. libpq - C Library

32.12. Notice Processing

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, `PQsetNoticeProcessor` sets or examines the current notice processor.

```c
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);
```

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

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

The same

```void pointer passed to <CODE CLASS="FUNCTION">PQsetNoticeReceiver</CODE>
```

The default notice receiver simply extracts the message (using

```<CODE CLASS="FUNCTION">PQresultErrorMessage</CODE>
```

or <CODE CLASS="FUNCTION">PQresultVerboseErrorMessage</CODE>)

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>

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 that function could be called as long as either the

PGconn object or PGresult objects made from it exist. At creation of a PGresult, the PGconn's current notice handling pointers are copied into the PGresult for possible use by functions like PQgetvalue.
<table>
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<th>Miscellaneous Functions</th>
<th>Home</th>
<th>Event System</th>
</tr>
</thead>
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<td><a href="index.html">Home</a></td>
<td><a href="libpq-events.html">Next</a></td>
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PostgreSQL database management system
(formerly known as Postgres, then as Postgres95)

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1.107 postgresql-jdbc 9.4-1208

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1.108 python 2.7.8
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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
http://www.python.org/psf/) was formed, a non-profit organization created
specifically to own Python-related Intellectual Property. Zope Corporation is a
spooning member of the PSF.

All Python releases are Open Source (see http://www.opensource.org/ for the Open
Source Definition). Historically, most, but not all, Python releases have also
been GPL-compatible; the table below summarizes the various releases.

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<td>2.1.1</td>
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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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Sockets
-------

The `socket` module uses the functions, `getaddrinfo`, and
`getnameinfo`, which are coded in separate source files from the WIDE

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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.

Asynchronous socket services
----------------------------------

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

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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.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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1.113 soci 3.2.3

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1.114 sortablejs 1.7.0

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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>

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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/*
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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.
 * @author Ben Alex
 */
public interface Permission extends Serializable {

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

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

}
* circumstances may [@link #RESERVED_OFF] or [@link #RESERVED_ON] be used within the
* pattern. An exemption is in the case of [@link #RESERVED_OFF] which is used to
* denote a bit that is off (clear). Implementations may also elect to use
* [@link #RESERVED_ON] internally for computation purposes, although this method may
* not return any <code>String</code> containing [@link #RESERVED_ON].
* <p>
* The returned String must be 32 characters in length.
* <p>
* This method is only used for user interface and logging purposes. It is not used in
* any permission calculations. Therefore, duplication of characters within the output
* is permitted.
* *
* @return a 32-character bit pattern
* /
String getPattern();
}
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