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```
import { ReflectiveInjector } from '@angular/core';
import { of } from 'rxjs/observable/of';
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 { 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
   1
  });
 contribService = injector.get(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(null, null, () => completed = true);
   expect (true). to Be (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',
   bio: 'Kara is a software engineer on the Angular team at Angular and a co-organizer of the Angular-SF Meetup.',
   group: 'Angular'
  },
 jeffcross: {
   name: 'Jeff Cross',
   picture: 'jeff-cross.jpg',
   twitter: 'jeffbcross',
   website: 'https://twitter.com/jeffbcross',
   bio: 'Jeff was one of the earliest core team members on AngularJS.',
   group: 'GDE'
  },
 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.',
   group: 'Angular'
  }
};
```

}

```
import { Injectable } from '@angular/core';
import { HttpClient } from '@angular/common/http';
import { Observable } from 'rxjs/Observable';
import 'rxjs/add/operator/map';
import 'rxjs/add/operator/publishLast';
import { Contributor, ContributorGroup } from './contributors.model';
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)
   // Create group map
   .map(contribs => \{
    const contribMap = new Map<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.connect();
 return contributors;
}
function compareContributors(l: Contributor, r: Contributor) {
return l.name.toUpperCase() > r.name.toUpperCase() ? 1 : -1;
}
function compareGroups(1: ContributorGroup, r: ContributorGroup) {
return l.order === r.order ?
  (1.name > r.name ? 1 : -1) :
  1.order > r.order ? 1 : -1;
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 { 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 \Rightarrow g.name);
    this.selectGroup(groupName);
   });
}
selectGroup(name) {
 name = name.toLowerCase();
 this.selectedGroup = this.groups.find(g => g.name.toLowerCase() === name) || this.groups[0];
 this.locationService.setSearch(", {group: this.selectedGroup.name});
}
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 ||</pre>
noPicture)+')"'>
```

```
<div class="contributor-info">
         <a *ngIf="person.bio" md-button>
           View Bio
         <a *ngIf="person.twitter" md-button class="icon"
           <span class="fa fa-twitter fa-2x"></span>
         </a>
         <a *ngIf="person.website" md-button class="icon"
           href="{{person.website}}" target="_blank" (click)="$event.stopPropagation()">
           <span class="fa fa-link fa-2x"></span>
         </a>
       </div>
     </div>
   </div>
   <div class="card-back" *ngIf="person.isFlipped" (click)="flipCard(person)">
     <h3>{{person.name}}</h3>
     {{person.bio}}
   </div>
 </div>
})
export class ContributorComponent {
@Input() person: Contributor;
noPicture = '_no-one.png';
pictureBase = CONTENT_URL_PREFIX + 'images/bios/';
flipCard(person) {
 person.isFlipped = !person.isFlipped;
}
}
PNG
IHDRpw<ogZIDATx [B@p+j(D!
Q@(D!
\label{eq:h9@} $$ h9@] | 4vmmjke5g\dL5{|nKW.??;w<G_/M0i\%0`zLDTM@dr0xV!qKJ0{D|d?^>jg.[7q=H@7xeXS]} } $$
KxR:uB Dez#89|c?,J{?n7,x@bSD{}?z6@3b~?,:O0>};}W]$ TIz*~;3v>#CnhAI6 ;:!?1&b~c2
hIv0-6OK;gB(W.H,-;;o03F,zt)OPH7bn_0dvDb3xRD|#aGtD$,{h.}.PHE1c8|"&uL1.EF!WpH$Pj8s/4yfu"
Jw@!PHB'3ZQ;0?voQ$ tm-t\b? '=8
a{Yt@!PH.'~gV#mx7YkWC<656
?iy
2y0\3}RS@!$bL:5~L!Nin*lv}q:
D!^21\#ubFz2J < q'wG''7DDxNf6Gpj3\&5aB@Uq1 < !FXT
T}v
M6<WQO@.@:&!iN #kE(r#C
Dh[m=E[P12KB2/q]/:xM&N[[
```

```
BN]So<1T8w}<7 02} &4GkG {UR#Zz!B(Wj9hc$PRKyy3v0O&F}?R(F G&o@uw !EQHTt*2XMf4dzp
iRK]E^{@}M7GR0y2 |: @BX\?\&;X.rG8\$I(\$\sim q3H*b[1\@M'eQS]be''`6HUzcCyI(\$RY8(mq0u\\&(a5mz))) |: @BX\§\&;X.rG8\$I(\$\sim q3H*b[1\@M'eQS]be''`6HUZcCYI(\$RY8(mq0u\\&(a5mz)
da0%S^hD@!PH~CgSR!41*1#}yTlB6]{0Z~-%gI( ^BDfz1DP8-.8;i3rpH#}q1`8E\J7)U%P}bKC+"2?|
fmo7(s<0DgycKqA_1r\sim+^(S{Yo,ZRSz}Ji<@D@!PH3o>
L@&5>QPQA?vM7w
0#uYb\JY6E]n 80vZ]Z(BItEc(P%XBiud{hf")nlL t9L[5BEj~~25ymVt%@fiu.
5}dLV{VaA=5ap:SiMd'4w!P5`Ks"uVMP%a\AF/3OC(2<7ipG:)Fa3x @:QN
9%$BpaAds0dn}xd^^%0Xp*m/^<$BpA]GT$mUN/Zbb[i?4$P."^(().S_8Z&(W.%P;x,9T`!QF]Dc(-'Q
Kh0zwV;Er"Q>egi2 qAJ(gpB
<{&."dkW&
Dm"w\]T
B[ wgXP:,9}'hyzxzT
B ;P$qCp+$;:w%
#*$\^*A@!1__xp7J5OE=i}bta',"0y1H@D}}t)az'T9Yekiwz<lq$BpR$(;$WZ*+/~X42[P tOCk Y(C^an
$tzogwM]UPe3mEnXx@!OD\c^MZEkY[pWX`}xmIg
^gw$eDUkZV;af=QF{/@o~:,53_dza8;wvUi@! wy-]G0wIkYHd7bS?K(m1>(8d"u~0RKCq@xxN0%
|mSb\$d4T\}+G.;w@<vAB5,lv(
I8rw"]-x
X" YPv7Bc
I|2`>HXY2)~vFez =PHuvZ!Cz5t~vvB%tg($40 k59kjZYFGs7]9[4aPw
_>!c f\ZkrEHgYu[$P\vyay['
Xm[LZ^{5}B(n\%zNl]+!!Lf,
7e&}/ }3X.X$77wB}aW="7lmPZW@b';#b
ux--QhoGq^3E@oD[.`'P]BsQEpe6i5[[~pHBg5E-JXiSN\|tcG
JI,%9}I\&: 0^ta+, E@qMKW,z,<4o\%otO;Hx\df-Z
6n<Ee+xxU 3.:(gsa#[K94t
 PQ<DYo|K@i*v|rYdgm"3^"P~L-qoI9RP]z@>F/oKTN4!JA~RSgO
o?D`qyK/9Zu@!PSw95G0eEtRPLFez
u03!rhq
%M(
L[ce5oCk:dY.4kQE-8@!PB4\sim r\%At\ Y(W!\$xU\);^(WFR;l4'DUA;,kb/r'B>[\$A\_NhB+X[Ce5oCk:dY.4kQE-8@!PB4\sim r\%At\ Y(W!\$xU\);^(WFR;l4'DUA;,kb/r'B>[\]
EM>&egEEc^N9.PTVF<y3dY.6,kQs[]#PT&3TnG,;;9ZTiq%$P;ur?)hB?Dk_@Qu(6?&xSWJxnc}UXEB(na]v4M)
m|NL-=\Z{*S;\#0@!PT}|Y]o$OP-kk6gxpO};:@Otc}?S;e/XsCk'EkvQX&WDCoC`S(v?a4q4;9U2'k("|K\A:v@-kl24")|X||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A||V||A|
A^R[ecKa] < +P'mNkF@Sf2?1# < +NidB)
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PbY: 74z>6YZ\q@x9]5,p
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LTgEI##
Da?4C^x< xp_+ \sim $
_2a[mZ]
"OW7f > QD/xWcAr + E\{n2iHR3Al^iB + HAQ@Iu,pw5jqz < zN\{Y \sim 'gHt/d"D\}\}
j@>YjNa#]!o(HCwD(-Z;w%O\y;!C9L\\\$w
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U7Uyqoo}U#39:tx.
 *O"CW Q(Pjee0]W{f
 $wE_'KoNKN Ui]JreA Sr&~QjH$MUZ.-qD\u
7Hia T*hIDqQHcRSQERN/%i+Jib\4F5P6+O*
H\$G2v>|t5dKRlwG3.dzI(G_f\&vatO9,DQC"0:.6f\%MNQl*@i
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a$TKv%<*Dq$
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hjjb)(xDG<;SQ1.a &#Q(+,{U )D/57R+K^+uei`2BrV=gj#^/bXr)O8t|?&nB?*F>m,3[f; 2;$
E_/
  }J088sL s|)#{
gHD]8XM\0^!bZN<wzw)
TEU&X]-aK$
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EnC*@/r@ !C CV@ Q(qYV,.5M(#g%wW
sMp\ TSAN QT<L\2\]c*\sim Vk6-g\#{?1X@Vp}
gRIU} (Gvo2$
o^{-1}XSmWT@; Q - iq:0 + Fi < A&D(/b - #DQa_?I(T!\&`I-"Uz)n\%gMqR7,ym < fixed by the context of 
>^{\lower_{c-N}}3Ei11F'IrN \ (9oTE\%sEPE8-C9V??H''ku]2tve\}gA \ /u`UV=[nNzYk\&JE/\sim *62WT]2tve\}gA \ /u`UV=[nNzYk\&JE/\sim *62WT]2tve]2tve\}gA \ /u`UV=[nNzYk\&JE/\sim *62WT]2tve]2tve}gA \ /u`UV=[nNzYk\&JE/\sim *62WT]2tve}gA \ 
0Kj@6 'H h<CE~u% %Nnq,HR571w!(0ru=K7B QB]R7?<V;ot3I+t .%uNS}"KLX2} !..smd
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; tB2 = I \text{ n'DOD YTrfU zcTD} \\ S"\_nf+; F8q3Z>: w|-F(qav\%y,\%q9B]>+q) \\ \{yRQ1gdP/.rOSs'oLugI=84\} \\ (yRQ1gdP/.rOSs'oLugI=84) \\ (
dR^mbX \{x; /=Xw[\$8DVCE\}\}
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P <;x ^zaWg A Qh6Iu/YVS.rK-M ^W_|^Zeq _nAX
cD (H;i"w53,V?K1%k\qU\w&@'Nx d Q(J?N{b<=e'u|J'w|g!0SKL(I @ R
 Q(w-eP;N8D$0jw7/DO/s@D
 &w,J)DA v!X-IoQxS>ui5aK'
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R Q(gIRPkQwte nFN?ol^/(KK/9>pd
&4JX) Q(xR"UERLq7,4Ks+&wQI
6mnm
lz{ywpoWcX-rTa,]M/5 g)Dy_6D!{|
 U"lr3G`*1g@t2bs?l\}UM/5Yc)Dx:u*/r!uH0!RJ9sL28q"$QH'fD#dO<5Mx\\< soQm1[iX53GCE)`j6H~vHC<~0|w[n] | W = (1.5)^{-1} | W = (1.5)^
H$ sgIDf8/ftebv<!Tu&YAS>sQc& ZAabQM6rAth%K7n\$M<Cy$
IQ}q"Os>
H614
i*x9\o XeE!MG T{17qlM"g\%BEgids;Q$P@*u,'PG^d:ZQ qp
TX{Q3N^:]'NC'a1>|5
'6m1n:I(>&%
Q+86N
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;^TRrBiWU.MDbB p/@m= BC/Rg:%RM1GUiB?~8XJ5j@l8m6mWI#$By*BfSFKRk,}oT=G
_{KgP\&">RU1Xj1}SOj>Ey(DAH.L~XZ)\&uqOaJY = DVPi-9((qJ*X$C5(Si*D!B7:2(0R\"fuNXgH`~6}X1+(-1)))
ZKDd9jG'K2Ab)~cS<y%L?&q3-T@$
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c\%\%\%^{uMd}>>>b4~yy\_Oeee~ANOOmsFvXCR)//,PP\&B:lt`|"jlVo
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. \#YLe = 0 \|< wY]], \#ABGFfeH_Rj \#\{s\{\{kj''!2V\#3HD\{zzP*@@A\&:QsbxbaH\}374S=Rr.'@\#\#\#P=X\}\}\} + 2(sbxbaH) + 
a'5x ?k^o)*L
P5KNc$apd
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C"T (J B@A )z)0okf8Y193{km ~5:EQ,mK1-lPkP'
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6In.p^Ha-BenK>}^Q1jraII*%)6P\UjrD,C:w8s4}\/CW|4@!'4o[FV-r`b
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7nh8V`s'9R]&T-Of{@09 =tlAPl@A}d%Ugh Qblq}Qu mq@gFK)2an7RGF#P0s1m;]YW
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Ti~'KQA@{wuvw(A;@-4F6J>4~k3YJE+3]!#et?~psZi"4Y"{QUV%I|s]r84H
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va8):EB8JsU'=Oyx6>
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#7,X2.8?(~~ (nQ*TML"NjI 7GD+Tlj2a#1Z1RJ!J#Fy#1{;jwuA6(XKx
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Lj^f" 4VggIa a,*Ye (bC3<BsG]*
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P7gBe *Hx-jwq0
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i4aS5j7IA O)R`|zN6hYCh=}VNB@G?fpQL$*bRP3#+F^TO6`m9
'W<14 B5Afp-bp8yh|%@!8u8[BDC(yBc<p~H|"C!v`#ai&21L7vo1U#-1qmEvb9cF,YK5
;\j/ (3O4Osb]bE(^L*UfY*.PLZ4L%@qzTi
}o2nl+=$PL[:@pGh&}JwqO?8ffff[lPde9vaNl3[9Qto"/<zT\]`9PP$*+6HC8wS-t<`Aa(oZi
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vse/JlrmHt>[U&m\
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^='y9s&aO<NU8P. qb.@@ZuF=L69T:0+mi|5i5ECSJ8K9&^ru@m[Q\$Y%<ERqZ]2.m>e-
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J%Ph'QJ$q((*E;lUgqalzhr^ Cn\[9!g~A:hAzoOh r%FaL'vi3 X@#Vm]jA*K5P j;iP$;s!94Va|11 6B[wo!t$&GdNLst
MfKNF3=MWQ0tic (,"UTvcFLk7H
Fc@QwG>nnwrf<q6Ey1FL4?pMbJ~
czrVt_fQ_&MDV|gw@ugM0c8@IOSP[P~pEf4k\&~5AQ_1=PY\{fV`XX""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z""\cite{N}Z"
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311O@ nc@Gi ,(mpMQ8aTSIF6K$@ab/8ob)J^lzI>nA]}NQJgiW}r
&>E:-02AGwIFX^K(3)UyU&%#sJ~fA4{*mX
_W%Z^9IyDP?WEnfsdIIW\kA'yjyX^;Md[0[1vR)&%p@ugDt]YW/!2&I35IBZyp0A^qf=-K)ju:rfPMGo mtk
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-6ccjuy--BiwcHU4\o34wZO}<F)[BYO1>@-6R<B08h2'K6#
F)I
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% c(@#LCr&WIQ0gk^7x.Z>j][R)KUAGHT)yW"{]7E] 55nv]rvlL<XwE3s['. &3C R@$6]v~c?j*L[PyC(Zp
 W\{R^{**}: LehI \sim qEr^*vYP0D2f8EchFv\%Yx(E'':\$,(0)5F< KYXyY^I \sim 01v[JdPloiX \sim yRo(Q2)]
j
YP<xx_-Z\y{8koZrJ8ko0&9H6R0.OSygllVRb[si#J+1?]9@
S-lAq%)tcALRoGTScZJYglH4qGT6-
\% M = rIV \# h\% jJ!c; y4m\&f^M(\q: Z; z5YWN \# N! \_xZZP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T)!RV \{n[-1], y2TP^f! 2AO\% + bx1RP3 \} MR4, + m5h(T
4 H9^hmA + p[+BTSK^|aP"5^Stt/?R1*RM\$GT)n\$ej]IqZy5*wbgYP^?*k-g\%\%:mGVnK)\ \ JFsXP?~\$1\}\ d
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0 OA@LWZ9!]{o}v>7*[^CwQ+UlE$[O3~d\5::_}MRl^| YPx?4T[MmgIvzhhfC@w<.0ERyQ18Zogest
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NX < J] Cd > !o70S, (]RQ]7; 7hZ&UQj
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yhzEe$QO6@71cPJSj+r!:h.,1,(gXr3RNq`t?O=}He~Pa$yD]Q*I~o#GC.I\gceJC#1O4xSC"L$%|=>US];y7_hkE2dj/!
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4HmYP6m_+U'YTa s8V>&}g`1m|"4@PnZ_UV i&~"F=1B&D4pxJib}Iz8`JL|Yj.#+,_%Kc1g+o9r+W#-
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G6ZuZ)&p`T!||vG\Hv@@X{A'X=JcQk7 \&` n^nzT B&h4uM &=`DppTFkZT9qNJTfdl8oQ
vYJ$b1Y.B ek6bm6 3p8yj@xH}czlo|KJ4xC2csmsA&[|<RTq~=*0 3il&Vld9d3l8Kpp%H(n@-
[QH@"@(=A($^! z>ttNM93__Z766Q'(aocLY{vz$(Ds8Dj-7cP'BTyo~ttkvzznrr
im!^__.{h<Ms1AQtL$8n>Wn>|k9@i\7gaapBxjZym=??OmuEswtKi[?N,zfwF!Z9^9_TIIhe=[wn.4Ixqc+f
o#045cH2eAw/k$sHYa-.+++;K$CI}
F+PDB\%YROL:Kb[Xy]PqR.//wP4C0<UWGeK'PyM%e{{;^BofjY}}
sEQAC\xEzuzE[kqrsa]
wUwg@L81|=h#(5P)
CEj>kBo5q-Zo7SQ[,+zuz@S(~"GKQ"s
yN
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RuD(S91UTDO9{a-3QFG=O~$8'G*q9
OzT`YZ9rkhky.Z@vx+^P
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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
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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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 "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.",
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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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bending into pretzel-like shapes, creating paths through thick jungle with a machete or drinking really awesome
beer.",
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the cleanest of code.",
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 "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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Expert. Stephen loves to help enterprises use technology more effectively.",
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programming geek and founded the Reactive Extensions for Angular project, ngrx.",
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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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 "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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 "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
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Angular end-to-end testing framework Protractor.",
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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.",
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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.",
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"name": "Hans Larsen",
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"twitter": "hanslatwork",
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everyday to help make it easier for everyone to create beautiful, consistent web applications using Angular, using
Material Design components and the CLI tool.",
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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.",
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framework and component library veteran, and has a passion for simplifying the task of programming. Before
Google, he worked at Microsoft and Borland.",
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makes sure people on the team can move fast and not break things. Vikram enjoys doing Yoga and going on walks
with his daughter.",
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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.",
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member on Angular Material. Paul focuses on tooling and building components for Angular.",
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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
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frameworks for the company. He is also an open source developer and a contributor to Angular.",
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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.",
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team since 2014. If you can't find him roaming the Github issue queues, he's probably out with his camera
somewhere.",
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 "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.",
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world. When hes not obsessing over pixels and design, he is probably off somewhere having adventures with his
wife and daughters.",
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core contributor to the UI Bootstrap project.",
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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?)",
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eating food and ogling cute puppies.",
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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.).",
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 "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.",
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contributing to open source and is the creator of the popular angular-translate module. In his spare time hes fiddling
with EDM production.",
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courses including: 'Angular 2: Getting Started' and Angular Routing",
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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.",
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 "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.",
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 "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.",
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 "bio": "Jorge is a Fulll Stack Developer in ByteDefault ... Professor in several courses related to javascript,
speaker, and writer of technical articles and a book Entendiendo Angular, Google Developer Expert in web
technologies nominate by Google, Nativescript Developer Expert nominated by Telerik.",
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"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.",
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"website": "https://www.DevIntent.com",
 "bio": "Owner and consultant at DevIntent. Active open-source contributor and leader. Passionate advocate, coach,
and consultant for LEAN and Agile teams. Google Developer Expert (GDE) in Angular. Founder and organizer for
the Google Developers Group (GDG) community on the Space Coast of Florida, USA.",
 "group": "GDE"
},
"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": {
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"bio": "Chris is a Full Stack Developer at McKinsey. A Google Developer Expert in Web Technologies and

```
"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"
},
"minko": {
 "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"
},
"SanderElias": {
"name": "Sander Elias",
"picture": "sanderelias.jpg",
"twitter": "esoSanderElias",
"website": "https://sanderelias.nl",
"bio": "Sander is a versed developer with over 4 decades of practice under his belt. He is also an Google Developer
Expert for web, specializing in Angular. Organizer of meetups and conferences. Helping out others wherever he can.
When he is not breathing code, he is fiddling around with IOT, photography, science and anything that might
vaguely is gadget-like! Thinks he a master of the grill, but in reality you probably don't get a food-poisoning;) Also,
and actually the most important thing to him, he is a father of 4, and has the most patient girlfriend in the universe.",
"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"
```

```
},
"cironunes": {
 "name": "Ciro Nunes",
 "picture": "cironunes.jpg",
 "twitter": "cironunesdev",
 "bio": "Ciro is the Lead Front-end Engineer of CrossEngage and Google Developer Expert in Web Technologies.",
 "group": "GDE"
},
"elecash": {
 "name": "Ral Jimnez",
 "picture": "raul.jpg",
 "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"
},
"simpulton": {
 "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"
},
"shaireznik": {
 "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"
```

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},
"danwahlin": {
 "name": "Dan Wahlin",
 "picture": "danwahlin.jpg",
 "twitter": "DanWahlin",
 "website": "https://codewithdan.com",
 "bio": "Dan Wahlin founded Wahlin Consulting which provides consulting and onsite/online training services on
Web technologies such as JavaScript, Angular, TypeScript, Node.js, C#, ASP.NET Core, Web API, and Docker.
Hes 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.",
 "group": "GDE"
},
"joeeames": {
 "name": "Joe Eames",
 "picture": "joeeames.jpg",
 "twitter": "josepheames",
 "website": "https://joeeames.me",
 "bio": "Joe Eames is a developer and educator. He publishes course on Angular and JavaScript on Pluralsight.com.
He is an organizer of ng-conf, a Google Developer Expert in Angular, gives lots of talks & workshops, and loves all
things web.",
 "group": "GDE"
},
"willmendesneto": {
 "name": "Wilson Mendes",
 "picture": "willmendesneto.jpg",
 "twitter": "willmendesneto",
 "website": "https://willmendesneto.github.io",
 "bio": "GDE (Google Developer Expert) Angular and Web Technologies, GDG Salvador organizer, passionate
about technology and active in communities with a focus on web development, including Angular, JavaScript,
HTML5, CSS3, Workflow, web performance, security and Internet of things. Participates in events organization,
speaker at conferences in Brazil and other countries and contributes to several open source projects.",
 "group": "GDE"
},
"jecelynyeen": {
 "name": "Jecelyn Yeen",
 "picture": "jecelynyeen.jpg",
 "twitter": "jecelynyeen",
 "website": "https://developers.google.com/experts/people/jecelyn-yeen",
 "bio": "GDE (Google Developer Expert) Angular and Web Technologies, Women Who Code KL Director, Jecelyn
specializes in professional application development with technologies, including Angular, HTML5, Typescript,
JavaScript, CSS, C#, NodeJs, Cloud and ASP.NET.",
```

```
"group": "GDE"
},
"vincirufus": {
 "name": "Vinci Rufus",
 "picture": "vincirufus.jpg",
 "twitter": "areai51",
 "website": "https://developers.google.com/experts/people/vinci-rufus",
 "bio": "Director of Experience Technology at SapientRazorfish. Consults various brands on their frontend and
mobile web architecture. A speaker at various forums and mentor at Launchpad Accelerator and ngGirls India.
Spends free time playing with Angular, Preact, web-components ",
 "group": "GDE"
},
"thierrychatel": {
 "name": "Thierry Chatel",
 "picture": "thierrychatel.jpg",
 "twitter": "ThierryChatel",
 "website": "http://www.methotic.com",
 "bio": "Thierry is a senior consultant and trainer, specialized on Angular, and a Google Developer Expert.",
 "group": "GDE"
},
"gerardsans": {
 "name": "Gerard Sans",
 "picture": "gerardsans.jpg",
 "twitter": "gerardsans",
 "website": "https://medium.com/@gerard.sans",
 "bio": "Gerard is very excited about the future of the Web and JavaScript. Always happy Computer Science
Engineer and humble Google Developer Expert. He loves to share his learnings by giving talks, trainings and
writing about cool technologies. He loves running AngularZone and GraphQL London, mentoring students and
giving back to the community.",
 "group": "GDE"
},
"amcdnl": {
 "name": "Austin McDaniel",
 "picture": "amcdnl.jpeg",
  "twitter": "amcdnl",
 "website": "https://amcdnl.com",
 "bio": "Austin is an software architect with a passion for JavaScript and Angular. Austin loves to share his
experiences with other like-minded developers by giving talks, blogging, podcasting and open-sourcing.",
  "group": "Angular"
},
"nirkaufman": {
 "name": "Nir Kaufman",
 "picture": "nirkaufman.jpg",
```

```
"twitter": "nirkaufman",
"website": "http://ngnir.life/",
```

"bio": "Nir is a Principal Frontend Consultant & Head of the Angular department at 500Tech, Google Developer Expert and community leader. He organizes the largest Angular meetup group in Israel (Angular-IL), talks and teaches about front-end technologies around the world. He is also the author of two books about Angular and the founder of the 'Frontend Band'.",

```
"group": "GDE"
}
@title
@description
The MIT License
```

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```
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 { 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 ||</pre>
noPicture)+')'">
        <div class="contributor-info">
          <a *ngIf="person.bio" mat-button>
            View Bio
          </a>
          <a *ngIf="person.twitter" mat-button class="icon"
            <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 class="card-back" *ngIf="person.isFlipped" (click)="flipCard(person)">
      <h3>{{person.name}}</h3>
      {{person.bio}}
   </div>
 </div>
})
export class ContributorComponent {
@Input() person: Contributor;
noPicture = '_no-one.png';
pictureBase = CONTENT_URL_PREFIX + 'images/bios/';
flipCard(person) {
 person.isFlipped = !person.isFlipped;
}
```

```
import { ReflectiveInjector } from '@angular/core';
import { of } from 'rxjs/observable/of';
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 { Injectable } from '@angular/core';
import { HttpClient } from '@angular/common/http';
import { Observable } from 'rxjs/Observable';
import 'rxjs/add/operator/map';
import 'rxjs/add/operator/publishLast';
import { Contributor, ContributorGroup } from './contributors.model';
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)
   // Create group map
   .map(contribs => {
    const contribMap = new Map<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.connect();
 return contributors;
}
function compareContributors(l: Contributor, r: Contributor) {
return l.name.toUpperCase() > r.name.toUpperCase() ? 1 : -1;
}
function compareGroups(1: ContributorGroup, r: ContributorGroup) {
return 1.order === r.order ?
  (1.name > r.name ? 1 : -1) :
  1.order > r.order ? 1 : -1;
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 \Rightarrow g.name);
    this.selectGroup(groupName);
   });
}
selectGroup(name) {
 name = name.toLowerCase();
 this.selectedGroup = this.groups.find(g => g.name.toLowerCase() === name) || this.groups[0];
 this.locationService.setSearch(", {group: this.selectedGroup.name});
}
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
   1
  });
```

```
contribService = injector.get(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(() \Rightarrow \{
  testData = getTestContribs();
  httpMock.expectOne({}).flush(testData);
  contribService.contributors.subscribe(results => contribs = results);
 });
 it('contributors observable should complete', () => {
  let completed = false;
  contribService.contributors.subscribe(null, null, () => completed = true);
  expect(true).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',
   bio: 'Kara is a software engineer on the Angular team at Angular and a co-organizer of the Angular-SF Meetup.',
   group: 'Angular'
  },
 jeffcross: {
   name: 'Jeff Cross',
   picture: 'jeff-cross.jpg',
   twitter: 'jeffbcross',
   website: 'https://twitter.com/jeffbcross',
   bio: 'Jeff was one of the earliest core team members on AngularJS.',
   group: 'GDE'
  },
 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.',
   group: 'Angular'
  }
};
```

}

```
IHDRpw<ogZIDATx [B@p+j(D!
Q@(D!
h9@]|4vmmjke5g\dL5{|nKW.??;w<G_/M0i%0`zLDTM@dr0xV!qKJ0{D|d?^>jg.[7q=H@7xeXS
KxR:uB Dez#89|c?,J{?n7,x@bSD{}?z6@3b~?,:O0>};}W|$ TIz*~;3v>#CnhAI6;:!?1&b~c2
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Jw@!PHB'3ZQ;0?voQ$ tm-t\b? '=8
a{Yt@!PH.'~gV#mx7YkWC<656
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D!^21#ubFz2J<q'wG"7DDxNf6Gpj3&5aB@Uq1<!FXT
Tv
M6<WQO@.@:&!iN #kE(r#C
Dh[m=E[P12KB2/q]/:xM&N[[
BN]So<1T8w}<7 02} &4GkG {UR#Zz!B(Wj9hc$PRKyy3v0O&F}?R(F G&o@uw !EQHTt*2XMf4dzp
iRK]E^{0}M7GR0y2|:@BX\?&;X.rG8$I($\sim q3H*b[1\@M'eQS]be"`6HUzcCyI($RY8(mq0u\&(a5mz))|:@BX\?&;X.rG8$I($\pi q3H*b[1\@M'eQS]be"`6HUzcCyI($RY8(mq0u\&(a5mz))|:@BX\pi q3H*b[1\@M'eQS]be"`6HUzcCyI($RY8(mq0u
da0%S^hD@!PH~CgSR!41*1#}yTlB6]{0Z~-%gI( ^BDfz1DP8-.8;i3rpH#}q1`8E\J7)U%P}bKC+"2?|
fmo7(s<0DgycKqA_1r\sim+^(S{Yo,ZRSz}Ji<@D@!PH3o>
L@&5>QPQA?vM7w
0#uYb \JY6E]n \80vZ]Z(BItEc(P\%XBiud\{hf'')nlL \t9L[5BEj$$\sim$25ymVt\% @fiu.
5dLV{VaA=5ap:SiMd'4w!P5`Ks"uVMP%a\AF/3OC(2<7ipG:)Fa3x @:QN
9%$BpaAds0dn}xd^^%0Xp*m/^<$BpA]GT$mUN/Zbb[i?4$P."^(().S 8Z&(W.%P;x,9T`!QF]Dc(-'Q
Kh0zwV;Er"Q>egi2_qAJ(gpB
<{&."dkW&
Dm''w \]T
B[ wgXP:,9}'hyzxzT
B ;P$qCp+$;:w%
#*$\^*A@!1__xp7J5OE=i}bta',"0y1H@D}}t)az'T9Yekiwz<lq$BpR$(;$WZ*+/~X42[P tOCk Y(C^an
$tzogwM]UPe3mEnXx@!OD\c^MZEkY[pWX`}xmIg
^gw$eDUkZV;af=QF{/@o~:,53_dza8;wvUi@! wy-]G0wIkYHd7bS?K(m1>(8d"u~0RKCq@xxN0%
|mSb$d4T\}+G.;w@ < vAB5,lv(
I8rw"]-x
X" YPv7Bc
I|2`>HXY2) \sim vFez\_= PHuvZ!Cz5t \sim vvB\%tg(\$40\_k59kjZYFGs7]9[4aPw]
_>!c f\ZkrEHgYu[$P\vyay['
Xm[LZ^{5}B(n\%zNl]+!!Lf,
7e\& /_{3X.X}77wB aW = "7lmPZW @b';#b
ux--QhoGq^3E@oD[.`P]BsQEpe6i5[[~pHBg5E-JXiSN\\tcG
JI,\%9}I\&:_0^ta+,_E@qMKW,z,<40\%otO;Hx\df-Z
6n<Ee+xxU_3.:(gsa#[K94t_
\label{eq:power_poly} $$ PQ<DYo| K@i*v|rYdgm"3^"P~L-qoI9RP]z@>F/oKTN4!JA~RSgO $$
o?D`qyK/9Zu@!PSw95G0eEtRPLFez
u03!rhq
%M(
L[ce5oCk:dY.4kQE-8@!PB4~r% At Y(W!$xU\;^(WFR;l4'DUA;,kb/r'B>[$A_NhB+X[
```

```
EM>&egEEc^N9.PTVF<y3dY.6,kQs[]#PT&3TnG,;;9ZTiq%$P;ur?)hB?Dk_@Qu(6?&xSWJxnc}UXEB(na]v4M)
A^R[ecKa] < +P'mNkF@Sf2?1# < +NidB)
1"ILcR)*uXx/@!PT%Z#^6OCu}A(_IkV
BHEUH%Pp
rKdXi+/\$5^h;SB|X[
h5/EIX pL5]uveD!iN Z}0W1
2*/%C(EJ(O6&8b"lWM]6SKee@d?)jKK1([wn!cDKAM.Ctq)0B`<DXH?5FHr|$PpH'(_`Fm
$m3br}(bYXby(=NS5TBHtE@NN56vu1Jgc>=ulfgVT~Kz85E04-1|L"\|z+7Nd,QaF$m-+O9hKw/3H;
Lp&n5"0g*,CE%Pr'Dex!Qn4a @_AH0bQC?E[f}/p)uW{}y8~?rhi:#G_*PT\3o>fK!h/sfNTK=/N|2>jl7
~00xWow5xfo(]w:bnrA K; t4ucPdnR8T=#"lps2.7msY
K0.+7:ye&YdxRvncH 0.`]|6`oKY6M2[C?|K
P;LX:C`Q`cQ:IXGbC
PbY : 74z>6YZ q@x9]5,p
%6s&{@X}b<ELb5?'}doPt,:O
vCF:fXbYD0?{_^-1b-3
-f6L2333c8g8133NY{':"T} C|zU~U*9v ^h;<>1E~G$
Ao?F:1Q&Ctwd<TSu M>X^OyLCV!Q(d;0KB`?u_],STxFr'8D"}i >s9$Z#1{"d?.N$
~^1`u#`"[=:
:L<
Q(Q\sim \{1fY*wREuZbm.l\{v\%Ug.g\}yB<
BZi:$ ~! aI IuV1>E=pHN
HaQ2]SEDgmVv,oHRPk!OeY(`$+/n)c;a/d:%Yk&+ #b%&(1@
Q(h|"jz;uUF\#7":\&.<MV3V"26Qn^i1\_>j\#,?ilaom\&ipucm>I)6k2v`\$5bN|I[paDpw([buaq<s,"\sim Hf(H\&Y+()+1)])f(H\&Y+()+1)]f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H\&Y+()+1)f(H
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,}~V=Ha?RPRY~6[To|wQ`>8L*]X{EH=M5a<m>J'-!S(J~<@1R`)10jbH QWkdl$]A<vEJn-
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Da?/c @ % DQzl:ctZ f\{x]xvDa\_>XH(RQ0A|+a&
TS<4~G(A)(Pb A6^[{;pGL[9NpP`l,jPoF}Td7.:q}ITyf7 L+*PDa'Qr=0IVX~ZRq> b5O<3i;C!|&M^'QDqe
H5]6%|5~w+tjC(
^XM/Y.v|>q$y/8"apix(;}Dt]F&cB<[ER?aC]
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DQ8fY#dQ.',9nC!\7^R/q\K@_\%K(Hon''
lgY~2
w|oT2jiZ2$
w<DY%a&> Tcm"?yi;QD(
eve$
cR4_ ^=BlsBrMqu^;*bk]5j$KW/:Lr6>oZ[lqeWl%;E#I'Q/ze|Da^IC'kLb@MU4xAWq^qER)d)%g
XfZd{!Q(3{w)pcpXY~*pIwIE2lBa K m@|"DDFP-f}
```

```
co~[(9O^Ag6<DW?*0<
mPeTgN,)-|;
&0bX>fr5x$W$
"MMc1(+b]qSP1TRzkyc
&^x-DyWL>5{6Bmhl=wJEF_.uDOX60S(H2]j5XNT_sCyOHvmKKN-zq'u
epDApkYd~A[Tf-{KP2v| aMT
Yvxtj#+kh$
~CvTBD,S3:0TdLt'(!0Bo0H$.J/UCExSP<_JOe{l-*qm EceNrTza[DA(8<Qx>E~Q=!P{x'=gp
YaDWUZLI|""]:L Q
LTgEI##
Da?4C^x< xp_+ - 
2a[mZ
j@>YjNa#]!o(HCwD(-Z;w%O\y;!C9LI`$w
H2rdYtE"3(IIjn.2cxLhMDs=#FGIb3)Q@}>qM(cYNSVw)Ipt9|S1[d&QS(U
DER?P~*K;!~6 <6TnMfu#=E]SE Q(JhN*?eFgQGDKQ}R_?$"KM$R%FTBr^DQR>OLUq45k
K~G~|9@7KIv-i9"e{#KM%Wv/;-8C Q(',hjDKG3hmD3.!EP/dV]b&{0(5*DA(Y0]U~E24tyE3Z@6Iu~$2*;R bU
L5|1?RC Q,~xGUQ"Z
U7Uyqoo}U#39:tx.
*O"CW Q(Piee0]W{f
$wE_'KoNKN Ui]JreA Sr&~QjH$MUZ.-qD\u
7Hia T*hIDqQHcRSQERN/%i+Jib\4F5P6+O*
H\$G2v>|t5dKRlwG3.dzI(G_f\&vatO9,DQC"0:.6f\%MNQl*@i
QD0(NWJ$
[\% \{s"Jpq+T
a$TKv%<*Dq$
E`T(@2:u\
/U3Gh9}T$I9d^:cPBCkDAVpJ},s[B(3zJYbJP2d_e.En*&6DxpZ8\*i95CZ?$K#F{M;jLrW_!Q-
HI78xM@v+;wsK3LPDb--
.;~9H$J1iQYy3(d+3Iv1UU2/"DD@v8;}DAx"@yC)UE4cFq3]<0tC>t<1(HAi_Cec]2p+}gTe:S<M:!L-'Q(,~Y
Z[v3T];$qlF(0
sXv~lb>A QSdy&%C<<yMN\~I0]E8,H)zlA_luq|`Y"l/uahu{aR/P-d: H`?&;|N9 Q(8<A
hjjb)(xDG<;SQ1.a &#Q(+,{U_)D/57R+K^+uei`2BrV=gj#^/bXr)O8t|?&nB?*F>m,3[f;_2;$
E /
}J088sL s|)#{
gHD]8XM\0^!bZN<wzw)
TEU&X]-aK$
s'e4x^UG*gwP<8g`j2QRA Q]U4\??F|Q\Kdfe/j.KVm#1H Q8n~-i/.w']V?WtLOA%eLLw&[8 H$
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WINxQ.[a G]1S1?DQ=YE(|v1zDA7tTRUIY`[2nY!5.r&|)b%N02
32
EnC*@/r@ !C CV@ Q(qYV,.5M(#g%wW
sMp\ TSAN QT<L\2\]c*\sim Vk6-g\#{?1X@Vp}
```

```
gRIU} (Gvo2$
o^{-1}XSmWT@; Q - iq:0 + Fi < A&D(/b~\#DQa_?I(T!\&`I-"Uz)n\%gMqR7,ym < Iquid No. 1 | Iq
>^UQNYP"fc-N>3Ei1lF'IrN \(9oTE% sEPE8-C9V??H"ku]2tve}gA /u`UV=[nNzYk&JE/~*62WT
0Kj@6 'H h<CE~u%%Nnq,HR571w!(0ru=K7B QB]R7?<V;ot3I+t .%uNS}"KLX2} !..smd
ClgK
J)H+&y@(qALZ60Z|d|*< c/SBTek">_!'$
Dw7OLi,&r
~E
tB2 = I \text{ n'DOD YTrfU zcTD}S"_nf+;F8q3Z>:w|-F(qav\%y,\%q9B]>+q}{yRQ1gdP/.rOSs'oLugI=84}
dR^mbX \{x; =Xw \{\$BVCE\}\}
!Bf~6.\OpI CR<2
2Qrp@ Q0 NiP$X,S-{bGg
P <;x ^zaWg A Qh6Iu/YVS.rK-M ^W |^Zeq nAX
cD (H;i"w53,V?K1%k\qU\w&@'Nx d Q(J?N{b\leqe'u|J'w|g!0SKL(I @ R
Q(w-eP;N8D$0jw7/DO/s@D
&w,J)DA v!X-IoQxS>ui5aK'
R Q(gIRPkQwte nFN?ol^/(KK/9>pd
&4JX) Q(xR"UERLq7,4Ks+&wQI
6mnm
lz{ywpoWcX-rTa,]M/5 g)Dy_6D!{|
 U"lr3G`*1g@t2bs?!\}UM/5Yc)Dx:u*/r!uH0!RJ9sL28q"$QH'fD#dO<5Mx\\< soQm1[iX53GCE)`j6H~vHC<~0|w[n] | Wall of the control of the c
H$ sgIDf8/ftebv<!Tu&YAS>sQc& ZAabQM6rAth%K7n\$M<Cy$
IQ}q"Os>
H614
i*x9\o XeE!MG T{17qlM"g\%BEgids;Q$P@*u,'PG^d:ZQ qp
TX{Q3N^:]'NC'a1>|5
 '6m1n:I(>&%
Q+86N
(.Zh&u7@ EhQ`C:5$JGxH.!MWgYxb8p?C)S&H"%QH0;[qK(Nhu
5%KqVf6!K64jM3m9 kHLbY37D7on%A2$vhb;w.N<^SN>HDa><XAGo9\:`-Z0 L$VZe&5v@ *~Xbr8z"
7 q Xb)YG)U2 BY8;6<<<$QH0RmT?+gQ3M3TOAp
7vQ3
:$!8H$F0,oINYjz3($Q4U4RU!'Y=
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(,--!Klr,OOOQe)
;^TRrBiWU.MDbB p/@m= BC/Rg:%RM1GUiB?~8XJ5j@l8m6mWI#$By*BfSFKRk,}oT=G
_KgP&">RU1Xj1}SOj>Ey(DAH.L~XZ}&uqOaJY =DVPi-9((qJ*X$C5(Si*D!B7:2(0R\\"fuNXgH` ~6}X1+(-
ZKDd9jG'K2Ab)~cS<y%L?&q3-T@$
7^s1_h0p10Z = !u
\:'XueKCP3DA,YDU>\nnnuB#$QHV*Q`j0
R46=k6Q!oWi(0x`YUD>zj;2\z
S B|,J6d=RKexa?:j)zR "c2RbT
(?f!
zBs-P lmmI((tA$g0wTZJ3hQaa:$x,LD^7.!*N1b0x8} L*T0+Bv2ZL0 iaThkEC8% -DU4AVfIN*Uf ($QH>Q
lr=^sfAZx\%^QF^{\N}J8D\%Wo>6U\]VA
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0B!B!B!BPPPPPPk-J)R?QQ $)@*U@JI%B)I\w[HofX=s:F#>CDRT*HIT*:~ bQ?5|O~U uP`q'
```

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tCa0.rp8drE"</|>LZVnV5&)`0! M$A&X,6
T*P(\.t:MVCAd2k4
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;+z?<<,ooo%d(dFY/,
c%%%^{uMd >>>b4~yy Oeee~ANOOmsFvXCR)//,PP&B:lt`|"jlVo
(>kq1
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(Q150[',;oii%e
YO#uttwJ6Cf}e{{yDL@5_vl;D-
NH'l.
dHG@>0qRQ @]]]'3qq6 988qpkkkiKBiU 5s[.0-
.#YLe=o||<wY]],j#ABGFfeH_Rj#{s{{kj"!2V#3HD{zzP*@@A&:QsbxbaH}374S=Rr.'@###P=X
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N_xZ (iOz-^5"k
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//2&y>DSAP .q\T;ZG@|>sJ?~BCNl-BUleaTNtg{
bCDe'} ";
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1.2 @angular/material 5.2.3

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```
import {buildConfig} from './build-config';
import MagicString from 'magic-string';
/** License banner from the build config that will be removed in all source files. */
const licenseBanner = buildConfig.licenseBanner;
* Rollup plugin that removes all license banners of source files.
* This is necessary to avoid having the license comment repeated in the output.
export const rollupRemoveLicensesPlugin = {
name: 'rollup-clean-duplicate-licenses',
transform: (code: string) => {
  const newContent = new MagicString(code);
  // Walks through every occurrence of a license comment and overwrites it with an empty string.
  for (let pos = -1; (pos = code.indexOf(licenseBanner, pos + 1)) !== -1; null) {
   newContent.overwrite(pos, pos + licenseBanner.length, ");
  }
  return {
   code: newContent.toString(),
   map: newContent.generateMap({ hires: true })
  };
}
};
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```

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1.3 angular 1.5.9

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1.4 angular ui-grid 4.0.4

1.5 angular2-moment 1.7.0

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1.6 Bootstrap 4 4.0.0

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layout: docs

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description: Commonly asked questions about Bootstrap's open source license.

group: about

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1.7 chart.js 2.7.2

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1.11 core-js 2.4.1

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1.12 csv.js 1.1.1

1.13 flink-connector-kafka-0.9_2.10 1.2.0

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Version 1.1 - 26 February 2007 PREAMBLE

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1.23 jsoup 1.10.2

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1.24 libpcap 1.5.3 :December 18, 2013

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*

- * @(#) \$Header: /tcpdump/master/libpcap/pcap-bpf.h,v 1.50 2007-04-01 21:43:55 guy Exp \$ (LBL)
- */

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#

Calling this script install-sh is preferred over install.sh, to prevent

'make' implicit rules from creating a file called install from it

when there is no Makefile.

#

This script is compatible with the BSD install script, but was written

from scratch. It can only install one file at a time, a restriction

shared with many OS's install programs.

1.25 log4j 1.2.17

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1.27 ng2-drag-drop 3.0.2

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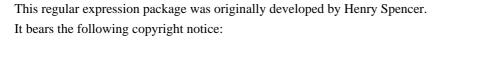
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1.28 PostgreSQL 9.5.9

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1.29 postgresql-client-common 42.1.4

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1.30 primeng 5.0.2

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     c0, 8.501 - 6.891, 15.391 - 15.39, 15.391 + 93.208 c - 8.501, 0 - 15.393 - 6.89 - 15.393 - 15.391 \\ V93.267 c 0 - 8.5, 6.892 - 15.393 - 15.391 \\ V93.267 c 0 - 8.5, 6.892 - 15.393 - 15.391 \\ V93.267 c 0 - 8.5, 6.892 - 15.393 - 15.391 \\ V93.267 c 0 - 8.5, 6.892 - 15.393 - 15.391 \\ V93.267 c 0 - 8.5, 6.892 - 15.393 - 15.391 \\ V93.267 c 0 - 8.5, 6.892 - 15.393 - 15.391 \\ V93.267 c 0 - 8.5, 6.892 - 15.393 - 15.391 \\ V93.267 c 0 - 8.5, 6.892 - 15.393 - 15.391 \\ V93.267 c 0 - 8.5, 6.892 - 15.393 - 15.391 \\ V93.267 c 0 - 8.5, 6.892 - 15.393 - 15.391 \\ V93.267 c 0 - 8.5, 6.892 - 15.393 - 15.391 \\ V93.267 c 0 - 8.5, 6.892 - 15.393 - 15.393 - 15.391 \\ V93.267 c 0 - 8.5, 6.892 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 15.393 - 
 15.392,15.393-15.392h113.467
     c8.499,0,15.39,6.891,15.39,15.392V206.734z"/>
  </g>
  <g id="IRISH">
    <path fill="#404C51" d="M149.938,209.013c-32.537,0-59.007-26.472-59.007-59.009c0-32.542,26.47-</p>
59.015.59.007-59.015
     c32.54,0,59.013,26.473,59.013,59.015C208.95,182.541,182.478,209.013,149.938,209.013z M149.938,93.092
     c-31.378,0-56.9,25.53-56.9,56.911c0,31.378,25.522,56.903,56.9,56.903c31.382,0,56.907-25.524,56.907-56.903
     C206.845,118.623,181.319,93.092,149.938,93.092z"/>
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 13.069
     <polygon fill="#404C51" points="149.94,133.093 155.341,123.568 165.295,118.179 164.428,117.676</pre>
 152.646,120.509
     149.238.132.255 "/>
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 147.2,179.493 150.607,167.748
         "/>
    <polygon fill="#404C51" points="166.83,150.018 176.355,155.416 181.744,165.374 182.247,164.508</p>
 179.417,152.724
      167.668,149.316 "/>
    <polygon fill="#404C51" points="133.018,149.983 123.492,144.582 118.103,134.628 117.6,135.496</p>
 120.429,147.278 132.176,150.686
         "/>
    <polygon fill="#404C51" points="161.864,161.968 164.784,172.521 161.553,183.372 162.522,183.112</pre>
 168.852.172.779
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```
162.954,162.065 "/>
<polygon fill="#404C51" points="137.979,138.034 135.061,127.481 138.292,116.629 137.321,116.888</pre>
130.994,127.222
 136.89,137.936 "/>
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127.146,168.93
 137.859,163.034 "/>
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172.706,131.073
 161.991.136.969 "/>
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121.597,158.65
 133.758.157.357 "/>
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178.252,141.354
 166.09.142.648 "/>
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176.098,163.866 166.566,156.2
  "/>
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141.194,121.698
 142.524.133.854 "/>
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158.655,178.303
 157.323.166.145 "/>
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  "/>
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135.832,176.055 143.58,166.59
  "/>
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141.194,115.986 "/>
<polygon fill="#404D52" points="159.499,181.685 145.579,191.276 150.753,204.354 150.083,193.021</pre>
159.499,184.015 "/>
<polygon fill="#404D52" points="182.031,140.849 191.623,154.767 204.699,149.594 193.366,150.263</pre>
184.36,140.849 "/>
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116.333,159.151 "/>
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180.867,167.582 "/>
<polygon fill="#404D52" points="121.47,134.068 124.53,117.445 111.623,111.856 120.111,119.396</pre>
119.821,132.422 "/>
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132.767,180.525 "/>
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122.188,171.16 "/>
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178.508,128.845 "/>
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172.544,177.354 "/>
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155.165,115.109 "/>
 <polygon fill="#404D52" points="146.442,182.749 129.888,186.164 129.561,200.225 133.357,189.525</pre>
145.534,184.895 "/>
</g>
</g>
</svg>
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```

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1.31 PyGreSQL 5.0.4

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1.32 reflections 0.9.10

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1.33 rxjs 5.5.2

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```
var fs = require('fs');
var dist = require('minimist')(process.argv).dist;
var license = require('minimist')(process.argv).license;

function addLicenseToFile (license, destination) {
   if (!license) {
      throw new Error('license path is required as 1st argument');
   }

   addLicenseTextToFile(fs.readFileSync(license).toString(), destination);
}

function addLicenseTextToFile(licenseText, destination) {
```

```
if (!destination) {
    throw new Error('destination file path is required as 2nd argument');
}

fs.writeFileSync(destination, `/**
@license
${licenseText}

**/

${fs.readFileSync(`${destination}`).toString()}
`);
}

module.exports = {
    addLicenseToFile: addLicenseToFile,
    addLicenseTextToFile: addLicenseTextToFile
};
    Apache License
    Version 2.0, January 2004
```

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1.34 slf4j-api 1.7.24

1.35 spring-boot-starter-data-jpa 1.5.2.RELEASE

1.36 spring-boot-starter-data-rest 1.5.2 RELEASE

1.37 spring-boot-starter-jdbc 1.5.2 RELEASE

1.38 spring-boot-starter-security 1.5.2 RELEASE

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1.40 tcpdump 4.9.2 :0ubuntu0.16.04.1

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