

Chapter 1: Creating Our First Component in Angular

Welcome to app!



Here are some links to help you start:

- [Tour of Heroes](#)
- [CLI Documentation](#)
- [Angular blog](#)

Karma v1.7.1 - connected DEBUG

Chrome 62.0.3202 (Mac OS X 10.12.5) is idle

Jasmine 2.6.4 finished in 0.299s

● ● ●

3 specs, 0 failures raise exceptions

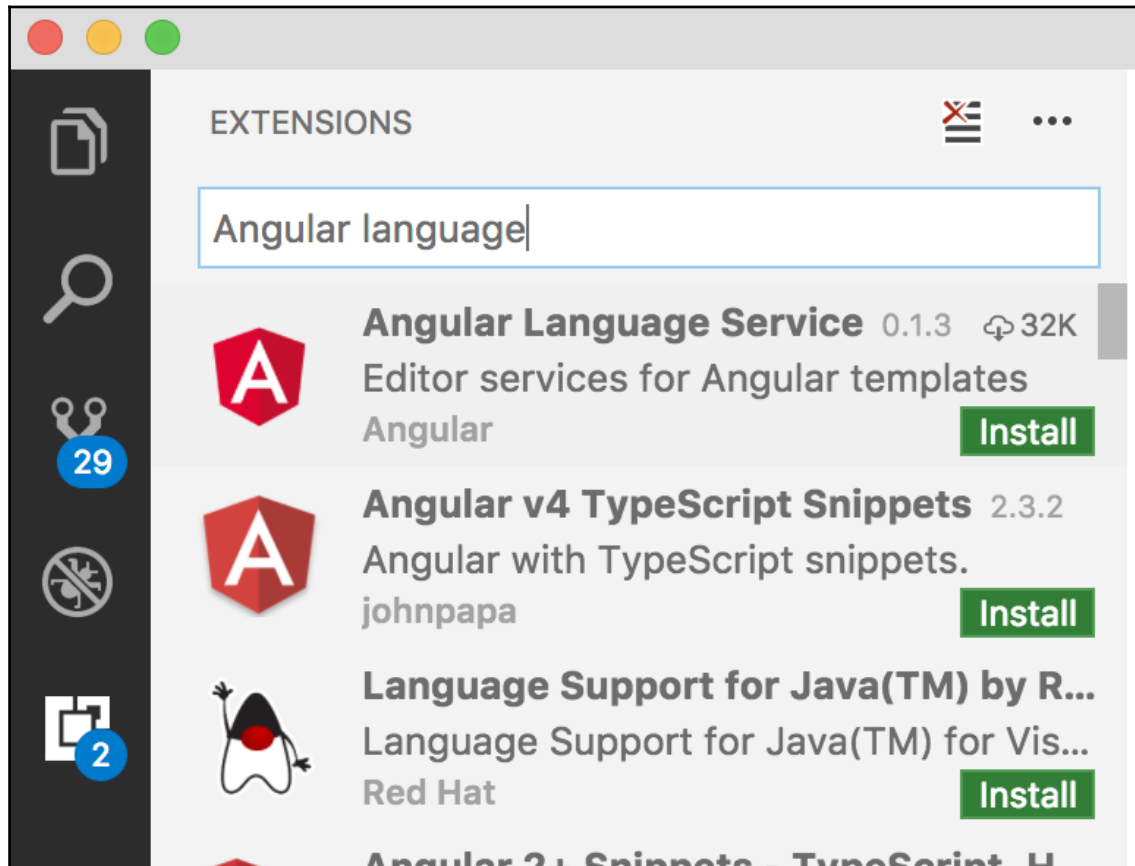
```
AppComponent
  should create the app
  should have as title 'app'
  should render title in a h1 tag
```

Welcome to app!



The image shows a Karma test runner interface. At the top, it says 'Karma v1.7.1 - connected' with a 'DEBUG' button. Below that, it indicates 'Chrome 62.0.3202 (Mac OS X 10.12.5) is idle'. The test runner is using 'Jasmine 2.6.4' and reports 'finished in 0.299s'. There are three green dots indicating the test status. A summary bar shows '3 specs, 0 failures' and a 'raise exceptions' checkbox. The test results for 'AppComponent' are listed: 'should create the app', 'should have as title 'app'', and 'should render title in a h1 tag'. The rendered application content is displayed below, showing 'Welcome to app!' and the Angular logo.

Chapter 2: IDEs and Plugins




```
8 export class AppComponent {  
9   title = 'app works!';  
10  description:string= 'some description';  
11 }  
12
```

```
app.component.ts  app.component.html ●
1 <h1>
2 |   {{title}} {{d}}
3 </h1>
4
```

description property

EXTENSIONS


Typescript Hero

 **TypeScript Hero** 0.13.2 69K ★ 4.5
Additional tooling for the typescript lan...
Christoph Bühler

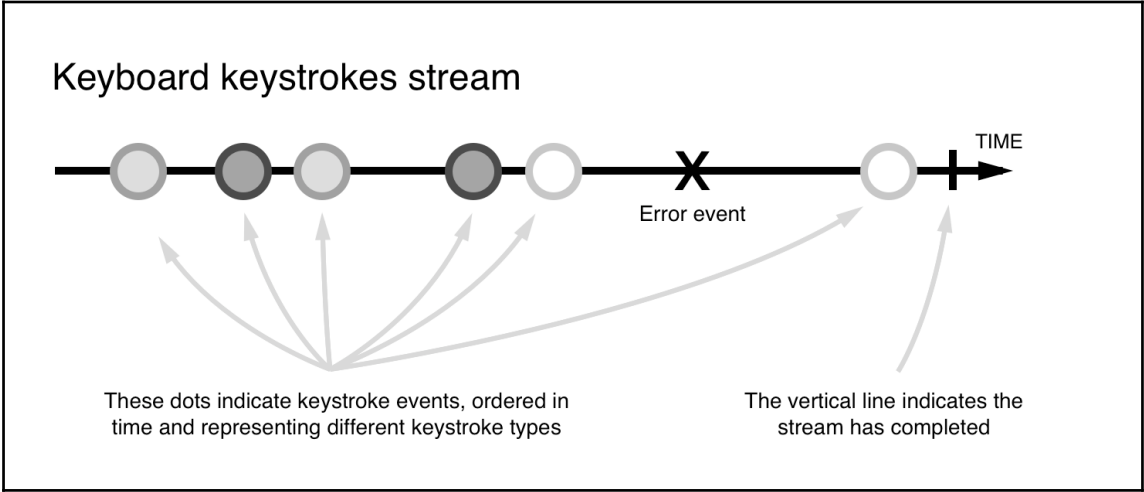
EXTENSIONS

Info vscode-icons

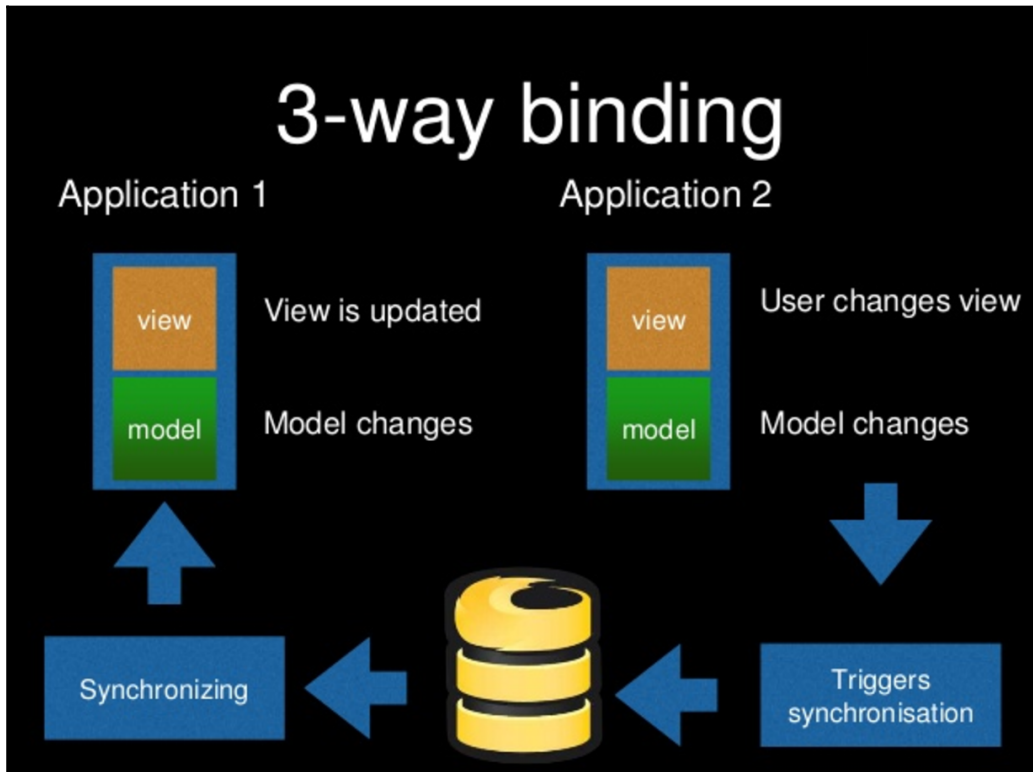
Angular |

 **Angular v4 TypeScript Snippets** 2.3.2
Angular with TypeScript snippets.
johnpapa

Chapter 7: Asynchronous Data Services with Angular



Chapter 8: Firebase



Create a project



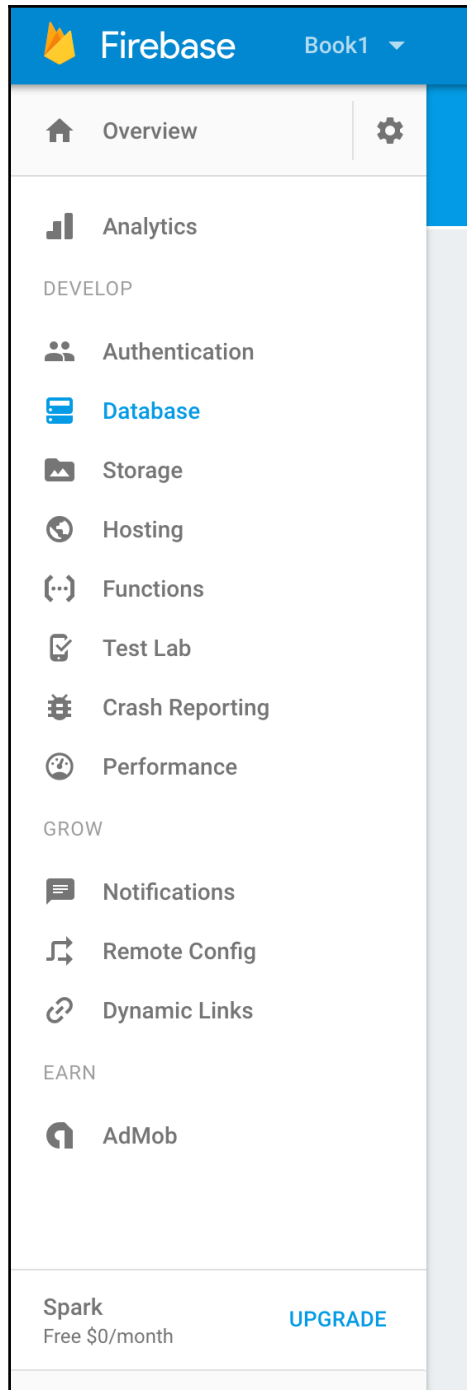
Project name

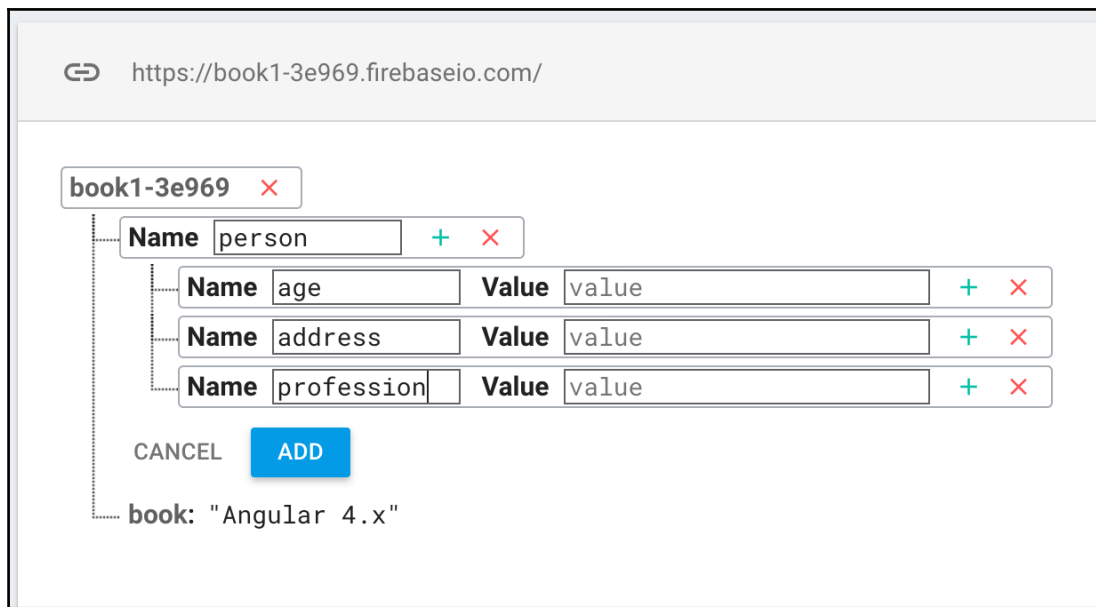
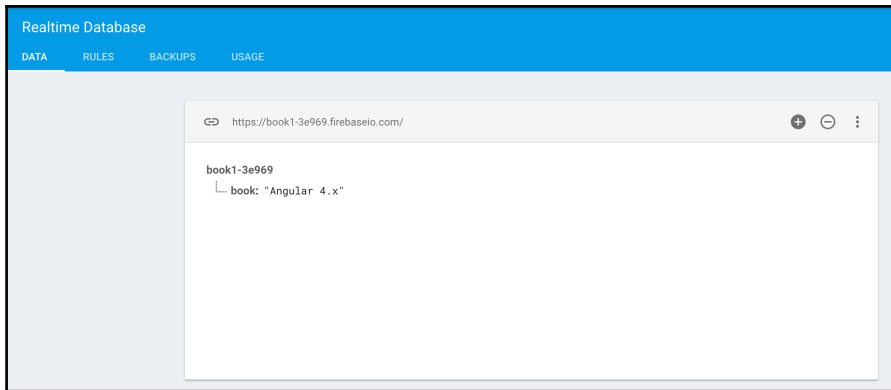
Country/region 

By default, your Analytics data will enhance other Firebase features and Google products. You can control how your analytics data is shared in your settings at anytime. [Learn more](#)

CANCEL

CREATE PROJECT





Sign-in providers










Provider	Status
Email/Password	Enabled

Add an Email/Password user








Email

Password

CANCEL

-  `signInAndRetrieveDataWithCredential` (met...
 -  `signInAnonymously`
 -  `signInWithCredential`
 -  `signInWithCustomToken`
 -  `signInWithEmailAndPassword`
 -  `signInWithPhoneNumber`
 -  `signInWithPopup`
 -  `signInWithRedirect`
 -  `signOut`
- `ev().subscribe(data => {`

Sign-in providers

Provider	Status
 Email/Password	Enabled
 Phone	Disabled
 Google	Disabled
 Facebook	Disabled
 Twitter	Disabled
 GitHub	Disabled
 Anonymous	Enabled

Chapter 9: Routing

```
▼ Router Event: NavigationStart
  NavigationStart(id: 2, url: '/products')
  ▶ NavigationStart {id: 2, url: "/products"}
```

```
▼ Router Event: RoutesRecognized
  RoutesRecognized(id: 2, url: '/products', urlAfterRedirects: '/products', state: Route(url:'', path:'') { Route(url:'products', path:'products') { Route(url:'', path:''), Route(url:'', path:'') } })
  ▶ RoutesRecognized {id: 2, url: "/products", urlAfterRedirects: "/products", state: RouterStateSnapshot}
```

```
▼ Router Event: GuardsCheckStart
  GuardsCheckStart(id: 2, url: '/products', urlAfterRedirects: '/products', state: Route(url:'', path:'') { Route(url:'products', path:'products') { Route(url:'', path:''), Route(url:'', path:'') } })
  ▶ GuardsCheckStart {id: 2, url: "/products", urlAfterRedirects: UrlTree, state: RouterStateSnapshot}
```

```
▼ Router Event: GuardsCheckEnd
  GuardsCheckEnd(id: 2, url: '/products', urlAfterRedirects: '/products', state: Route(url:'', path:'') { Route(url:'products', path:'products') { Route(url:'', path:''), Route(url:'', path:'') } }, shouldActivate: true)
  ▶ GuardsCheckEnd {id: 2, url: "/products", urlAfterRedirects: UrlTree, state: RouterStateSnapshot, shouldActivate: true}
```

```
▼ Router Event: ResolveStart
  ResolveStart(id: 2, url: '/products', urlAfterRedirects: '/products', state: Route(url:'', path:'') { Route(url:'products', path:'products') { Route(url:'', path:''), Route(url:'', path:'') } })
  ▶ ResolveStart {id: 2, url: "/products", urlAfterRedirects: UrlTree, state: RouterStateSnapshot}
```

```
▼ Router Event: ResolveEnd
  ResolveEnd(id: 2, url: '/products', urlAfterRedirects: '/products', state: Route(url:'', path:'') { Route(url:'products', path:'products') { Route(url:'', path:''), Route(url:'', path:'') } })
  ▶ ResolveEnd {id: 2, url: "/products", urlAfterRedirects: UrlTree, state: RouterStateSnapshot}
```

```
▼ Router Event: NavigationEnd
  NavigationEnd(id: 2, url: '/products', urlAfterRedirects: '/products')
  ▶ NavigationEnd {id: 2, url: "/products", urlAfterRedirects: "/products"}
```

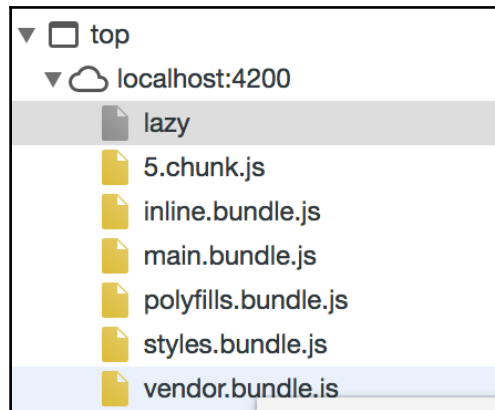
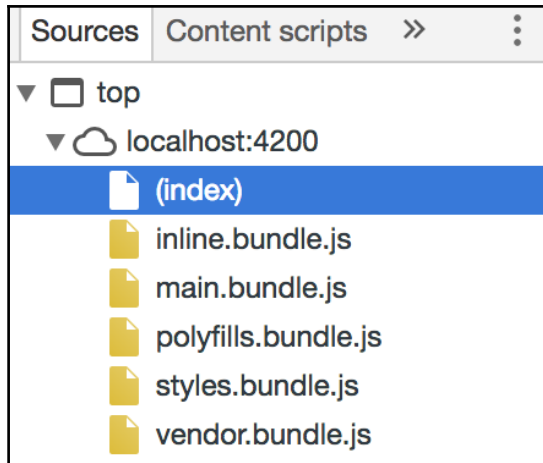
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```
▼ Router Event: GuardsCheckEnd
  GuardsCheckEnd(id: 1, url: '/products', urlAfterRedirects: '/products', state: Route(url:'', path:'') { Route(url:'products', path:'products') { Route(url:'', path:''), Route(url:'', path:'') } }, shouldActivate: true)
  ▶ GuardsCheckEnd {id: 1, url: "/products", urlAfterRedirects: UrlTree, state: RouterStateSnapshot, shouldActivate: true}
```

```
▼ Router Event: GuardsCheckEnd
  GuardsCheckEnd(id: 1, url: '/products', urlAfterRedirects: '/products', state: Route(url:'', path:'') { Route(url:'products', path:'products') { Route(url:'', path:''), Route(url:'', path:'') } }, shouldActivate: false)
  ▶ GuardsCheckEnd {id: 1, url: "/products", urlAfterRedirects: UrlTree, state: RouterStateSnapshot, shouldActivate: false}
```

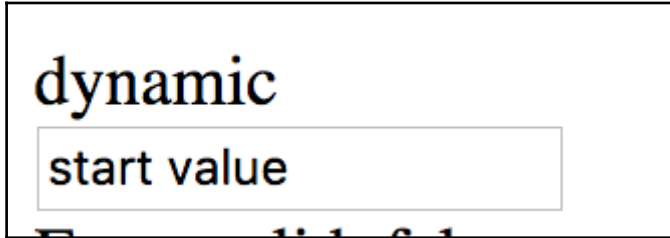
```
▼ Router Event: NavigationCancel
  NavigationCancel(id: 1, url: '/products')
  ▶ NavigationCancel {id: 1, url: "/products", reason: ""}
```

>



```
Router Event: NavigationCancel  
NavigationCancel(id: 1, url: '/lazy')  
NavigationCancel {id: 1, url: "/lazy", reason: "NavigationCancelingError: Cannot load children bec... guard of the route "path: 'lazy'" returned false"}
```

Chapter 10: Forms in Angular



Chapter 11: Angular Material



jedis

Luke

Yoda

Darth Vader

Choose a date



AUG 2017 ▼



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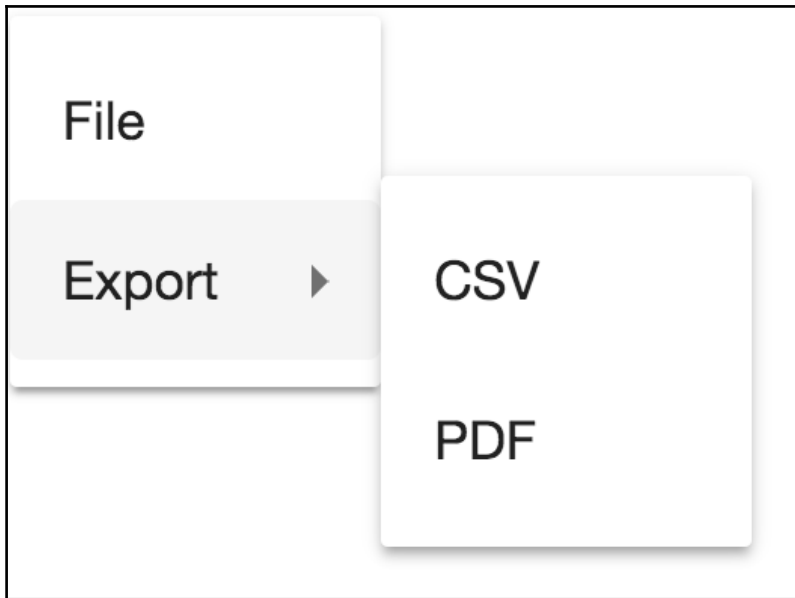
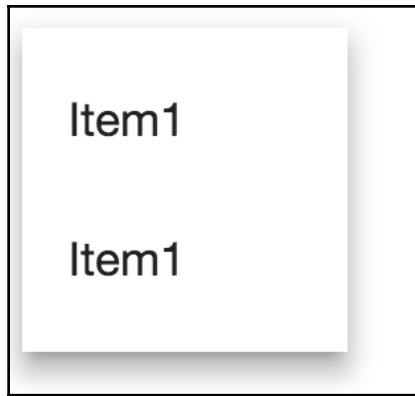
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Item1

Item1

 Item1

 Item1

Delete all

Are you sure?

No Yes

Name	Side
Yoda	Good
Darth	Evil
Palpatine	Evil

Name ↓	Side
Yoda	Good
Palpatine	Evil
Darth	Evil

Chapter 13: Unit Testing in Angular

The screenshot displays the Karma v1.7.1 test runner interface. At the top, a green header bar shows "Karma v1.7.1 - connected" and a "DEBUG" button. Below this, it indicates "Chrome 62.0.3202 (Mac OS X 10.12.5) is idle". The test runner is using Jasmine 2.6.4, which finished in 0.299s, as shown by three green dots. A summary bar reports "3 specs, 0 failures" and includes a "raise exceptions" checkbox. The test results for the "AppComponent" are listed: "should create the app", "should have as title 'app'", and "should render title in a h1 tag". The rendered application output is visible, featuring the text "Welcome to app!" and the Angular logo (a red shield with a white 'A').

Appendix B: Webpack with Angular

