GFT

Angular first steps

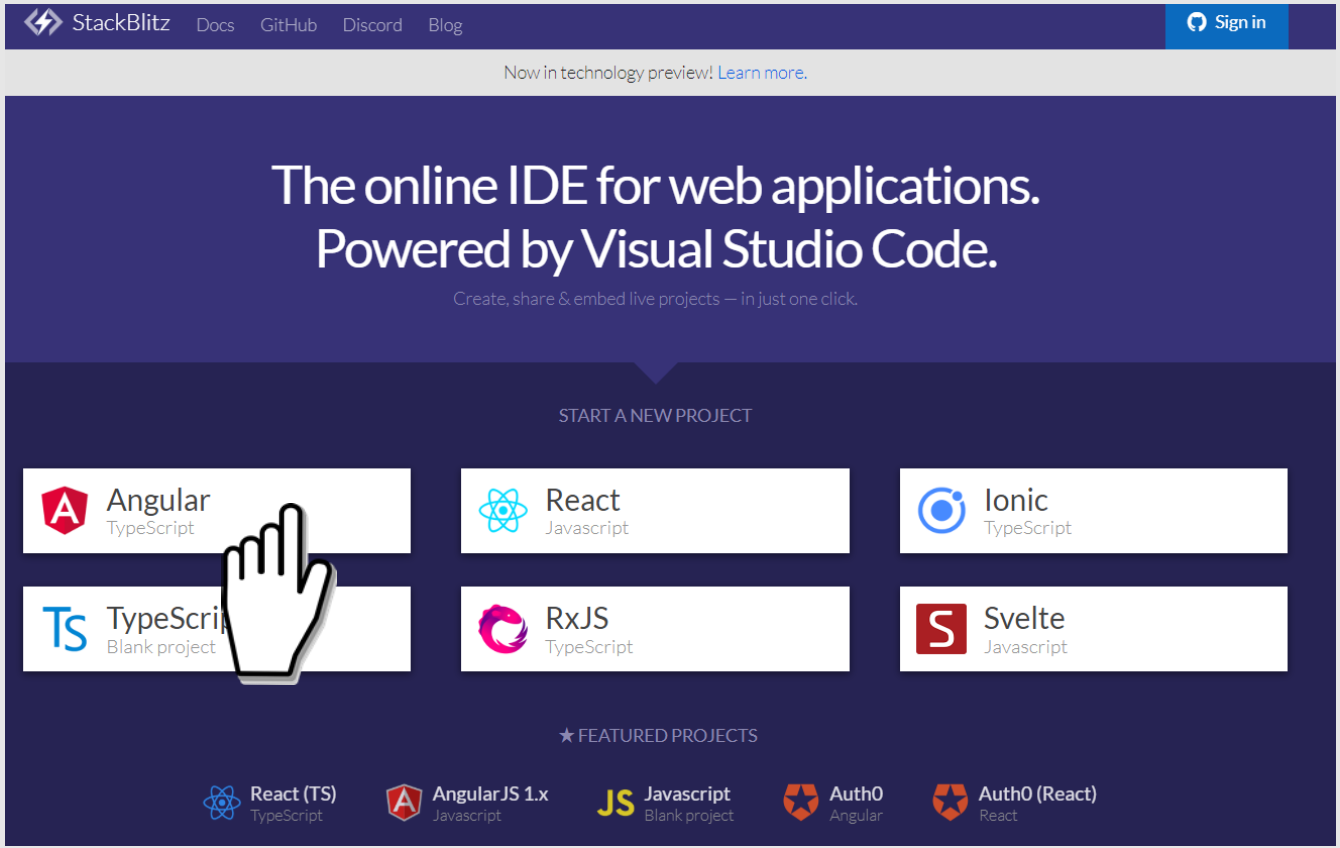
GFT INTERNAL TRAINING

INNOVATE. TRANSFORM. DELIVER.

Agenda

1. first steps with stackblitz
2. new app with angular-cli
3. new component
4. new component with angular-cli
5. using directives
6. two-way binding

first steps with StackBlitz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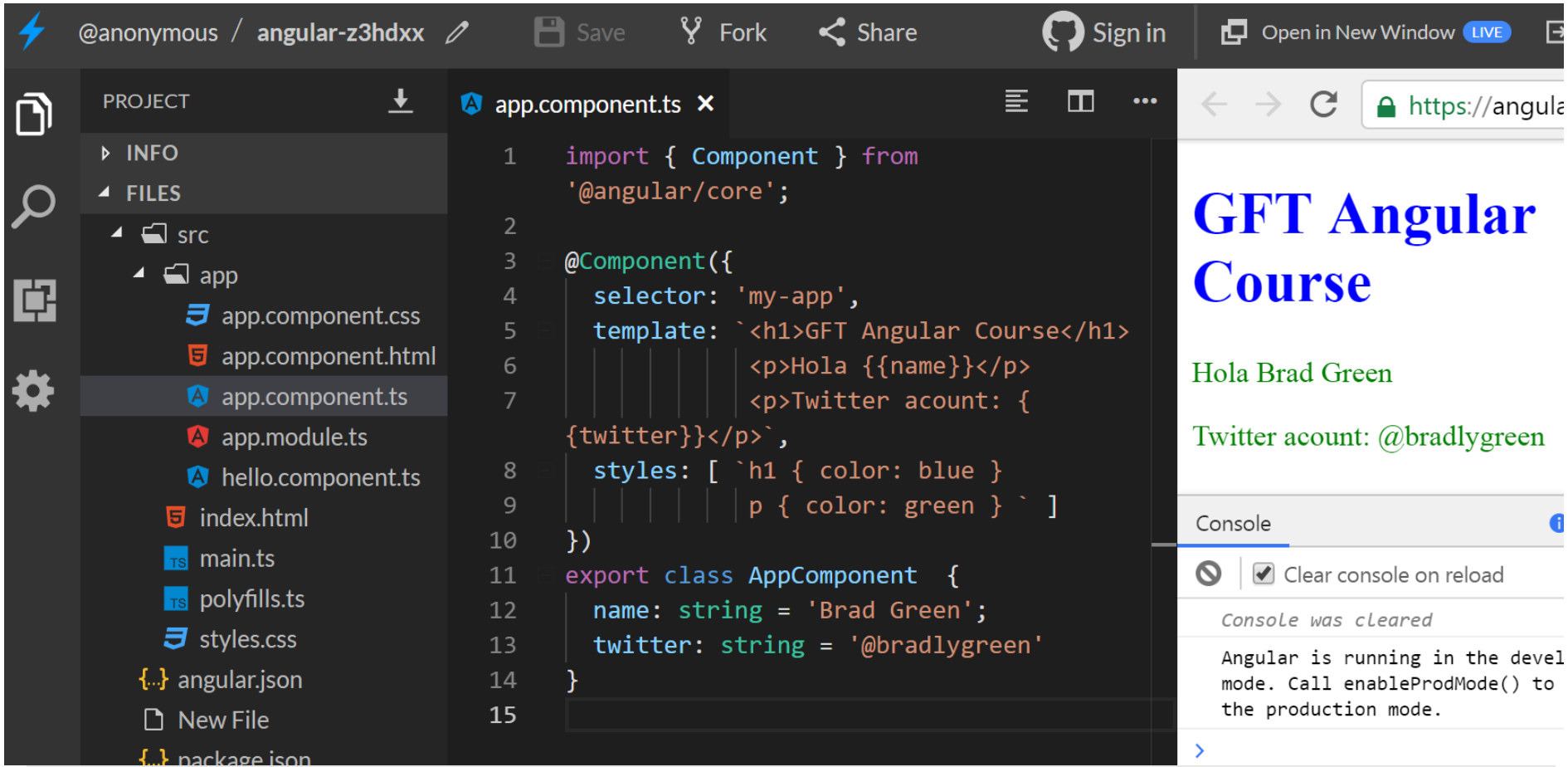
Now in technology preview! Learn more.
The online IDE for web applications.
Powered by Visual Studio Code.
Create, share & embed live projects — in just one click.
START A NEW PROJECT
Angular
TypeScript
React
Javascript
Ionic
TypeScript
TypeScri
Blank project
RxJS
TypeScript
Svelte
Javascript
★ FEATURED PROJECTS
React (TS)
TypeScript
AngularJS 1.x
Javascript
Javascript
Blank project
Auth0
Angular
Auth0 (React)
React


@anonymous / angular-z3hdxx
Save
Fork
Share
Sign in
Open in New Window
LIVE
PROJECT
INFO
FILES
src
app
app.component.css
app.component.html
app.component.ts
app.module.ts
hello.component.ts
index.html
main.ts
polyfills.ts
styles.css
angular.json
New File
package.json
app.component.ts
1 import { Component } from '@angular/core';
2
3 @Component({
4 selector: 'my-app',
5 template: `<h1>GFT Angular Course</h1>
6 Hola {{name}}
7 Twitter acount: {{twitter}} `,
8 styles: [`h1 { color: blue }
9 p { color: green } `]
10 })
11 export class AppComponent {
12 name: string = 'Brad Green';
13 twitter: string = '@bradlygreen'
14 }
15
https://angula
GFT Angular Course
Hola Brad Green
Twitter acount: @bradlygreen
Console
Clear console on reload
Console was cleared
Angular is running in the devel
mode. Call enableProdMode() to
the production mode.

new app with angular cli

angular-cli installation

```
console -> npm install -g @angular/cli
```

```
console -> ng --version
```

angular-cli custom installation

```
console -> npm install -g @angular/cli@7.0.2

console -> ng --version
```

angular-cli upgrading

```
console -> npm uninstall -g @angular/cli

console -> npm cache clean (if npm <=5)
console -> npm cache verify (if npm >5)

console -> npm install -g @angular/cli@latest
```

app prueba1 with angular cli

console -> ng new prueba1

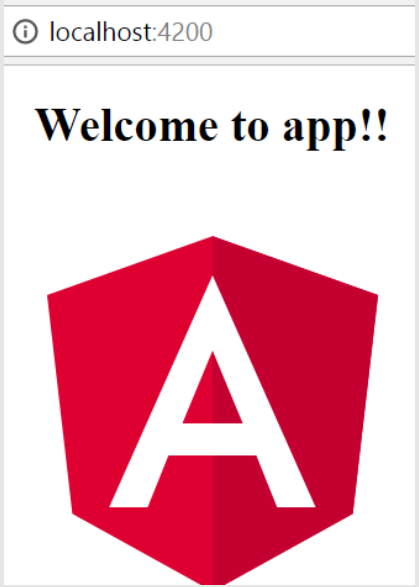
```
? Would you like to add Angular routing? No
? Which stylesheet format would you like to use? (Use arrow keys)
> CSS
  SCSS   [ http://sass-lang.com   ]
  SASS   [ http://sass-lang.com   ]
```

```
  create e2e\app.e2e-spec.ts
  create e2e\app.po.ts
  create e2e\tsconfig.e2e.json
  create .gitignore
  create karma.conf.js
  create package.json
  create protractor.conf.js
  create tsconfig.json
  create tslint.json
Successfully initialized git.
Installing packages for tooling via npm.
Installed packages for tooling via npm.
Project 'prueba1' successfully created.

C:\Users                                    inicio\examples>
```

console -> cd prueba1

console -> ng serve



creating a new component

new component saludo

- create file -> saludo.component.ts
- declare component in a module (app.module.ts)
- use its tag

saludo.component.ts

```
import { Component } from '@angular/core';

@Component({
  selector: 'saludo',
  template: `<h1>Hola {{name}}</h1>`
})

export class SaludoComponent {
  name: string = "Misko Hevery";
}
```

declaration in app.module.ts

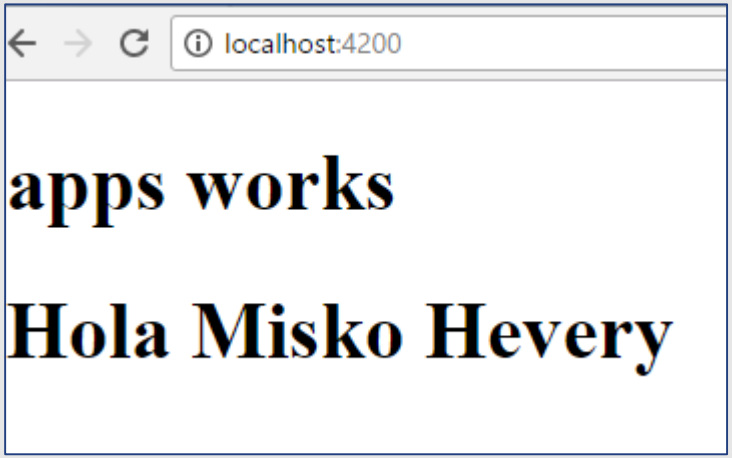
```
import { HttpModule } from '@angular/http';

import { AppComponent } from './app.component';
import { SaludoComponent } from './saludo.component';


@NgModule({
  declarations: [
    AppComponent,
    SaludoComponent
  ],
  imports: [
    BrowserModule,
    FormsModule,
    HttpModule
  ],
  providers: [],
  bootstrap: [AppComponent]
})
export class AppModule { }
```

use tag in app.component.html

```
<h1>
  {{title}}
</h1>
<saludo></saludo>
```



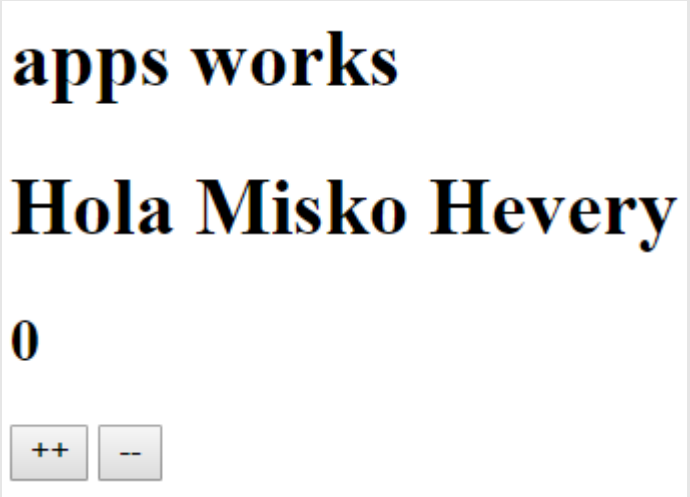
creating a new component with angular-cli

console -> ng generate component *name*

console (short version) -> ng g c *name*

```
>ng g c control
installing component
  create src\app\control\control.component.css
  create src\app\control\control.component.html
  create src\app\control\control.component.spec.ts
  create src\app\control\control.component.ts
  update src\app\app.module.ts
```

learn by doing




```
add() {
  this.value++;
}
```

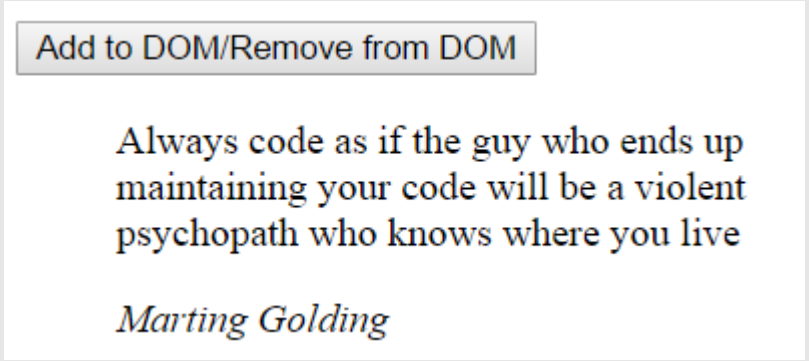
behaviour

```
<button (click)=add()>++</button>
```

event-binding

using directives

learn by doing




```
<button (click)=toggle()>Add to DOM/Remove from DOM</button>

<blockquote *ngIf=inDOM>
  <p>Always code as if the guy
   who ends up maintaining your code will be a violent psychopath
   who knows where you live</p>
  <cite>Marting Golding</cite>
</blockquote>
```

→ ***ngIf = expression**

learn by doing (use *ngFor)

```
superheroes = [
  { name: "batman",
    alterEgo: "bruce wayne",
    superpowers: ["genius intellect", "vast wealth", "indomitable will"]
  },
  { name: "sprocketman",
    alterEgo: "",
    superpowers: ["throws sprockets"]
  },
  { name: "wonder woman",
    alterEgo: "Princess Diana of Themyscira",
    superpowers: ["superhuman strength", "fly", "uses boomerang tiara"]
  },
  { name: "northstar",
    alterEgo: "Jean-Paul Beaubier",
    superpowers: ["superhuman speed", "fly", "project photonic blasts"]
  },
  { name: "superlopez",
    alterEgo: "Juan López Fernández",
    superpowers: ["superhuman strength", "flight", "X-ray vision"]
  }
];
```

Superheroes List

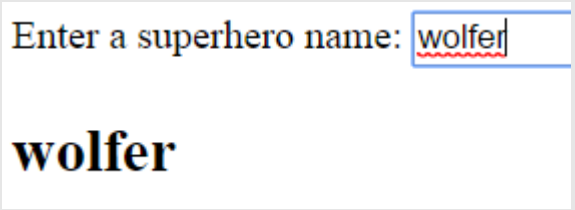
1. batman
   aka bruce wayne
   Superpowers
   - genius intellect
   - vast wealth
   - indomitable will
2. sprocketman
   aka
   Superpowers
   - throws sprockets
3. wonder woman
   aka Princess Diana of Themyscira
   Superpowers
   - superhuman strength
   - fly
   - uses boomerang tiara
4. northstar
   aka Jean-Paul Beaubier
   Superpowers
   - superhuman speed
   - fly
   - project photonic blasts
5. superlopez
   aka Juan López Fernández
   Superpowers
   - superhuman strength
   - flight
   - X-ray vision

two-way binding

```
import { FormsModule } from '@angular/forms';
```

```
@NgModule({
  declarations: [
    AppComponent
  ],
  imports: [
    BrowserModule,
    FormsModule
  ],
```

in order to use two-way data binding you must import FormsModule




```
Enter a superhero name: <input [(ngModel)] = name><br>


<h2>{{name}}</h2>
```

two-way data binding

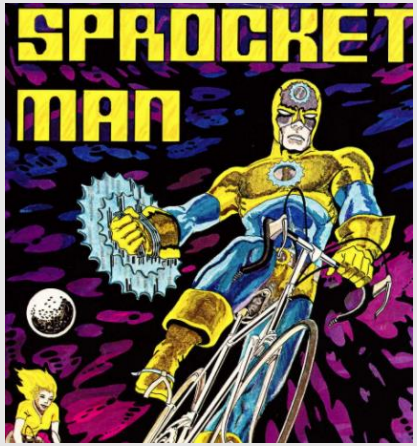
learn by doing (use ngSwitch)

Enter a superhero name: wolverine

wolverine

Enter a superhero name: sprocketman

sprocketman



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