



ANGULAR - ROUTING

ROAD TO SUCCESS

La balise `<router-outlet>`

HelloWorld > src > app > `<>` app.component.html >  div.container

You, a few seconds ago | 1 author (You)

```
1 <app-header></app-header>
```

```
2 <div class="container">
```

```
3   <h1 class="my-5 bg-dark text-center text-danger">
```

```
4     {{ title }}
```

```
5   </h1>
```

```
6   <router-outlet></router-outlet>
```

```
7 </div> | You, a few seconds ago • Uncommitted changes
```


Routing Module (Y/N) ? Yes Michel !

```
1 import { BrowserModule } from '@angular/platform-browser';
2 import { NgModule } from '@angular/core';
3
4 import { AppRoutingModule } from './app-routing.module';
5 import { AppComponent } from './app.component';
6 import { HeaderComponent } from './header/header.component';
7 import { CarsListComponent } from './cars-list/cars-list.component';
8 import { DriversListComponent } from './drivers-list/drivers-list.component';
9
10 You, a few seconds ago | 1 author (You)
11 @NgModule({
12   declarations: [
13     AppComponent,
14     HeaderComponent,
15     CarsListComponent,
16     DriversListComponent,
17   ],
18   imports: [
19     BrowserModule,
20     AppRoutingModule
21   ],
22   providers: [],
23   bootstrap: [AppComponent]
24 })
25 export class AppModule { }
```

Le fichier : **app-routing.module.ts**

<> app.component.html

TS app-routing.module.ts X

HelloWorld > src > app > TS app-routing.module.ts > ...

You, 3 days ago | 1 author (You)

```
1 import { NgModule } from '@angular/core';
```

```
2 import { Routes, RouterModule } from '@angular/router';
```

```
3
```

```
4
```

```
5 const routes: Routes = [];
```

```
6
```

You, 3 days ago | 1 author (You)

```
7 @NgModule({
```

```
8   imports: [RouterModule.forRoot(routes)],
```

```
9   exports: [RouterModule]
```

```
10 })
```

```
11 export class AppRoutingModule { }
```

```
12
```

> OPEN EDITORS

✓ ANGULAR HELLO WORLD



✓ HelloWorld

> e2e

> node_modules

✓ src

✓ app

✓ cars-list

cars-list.component.css

<> cars-list.component.html

TS cars-list.component.ts

> drivers-list

> header

TS app-routing.module.ts

app.component.css

<> app.component.html

TS app.component.ts

TS app.module.ts

> assets

> environments

★ favicon.ico

<> index.html

TS main.ts

TS polyfills.ts

styles.css

TS test.ts

⚙ .editorconfig

HelloWorld > src > app > TS app-routing.module.ts > ...

You, 3 days ago | 1 author (You)

```
1 import { NgModule } from '@angular/core';
2 import { Routes, RouterModule } from '@angular/router';
3
4
5 const routes: Routes = [];
```

You, 3 days ago | 1 author (You)

```
7 @NgModule({
8   imports: [RouterModule.forRoot(routes)],
9   exports: [RouterModule]
10 })
11 export class AppRoutingModule { }
12
```

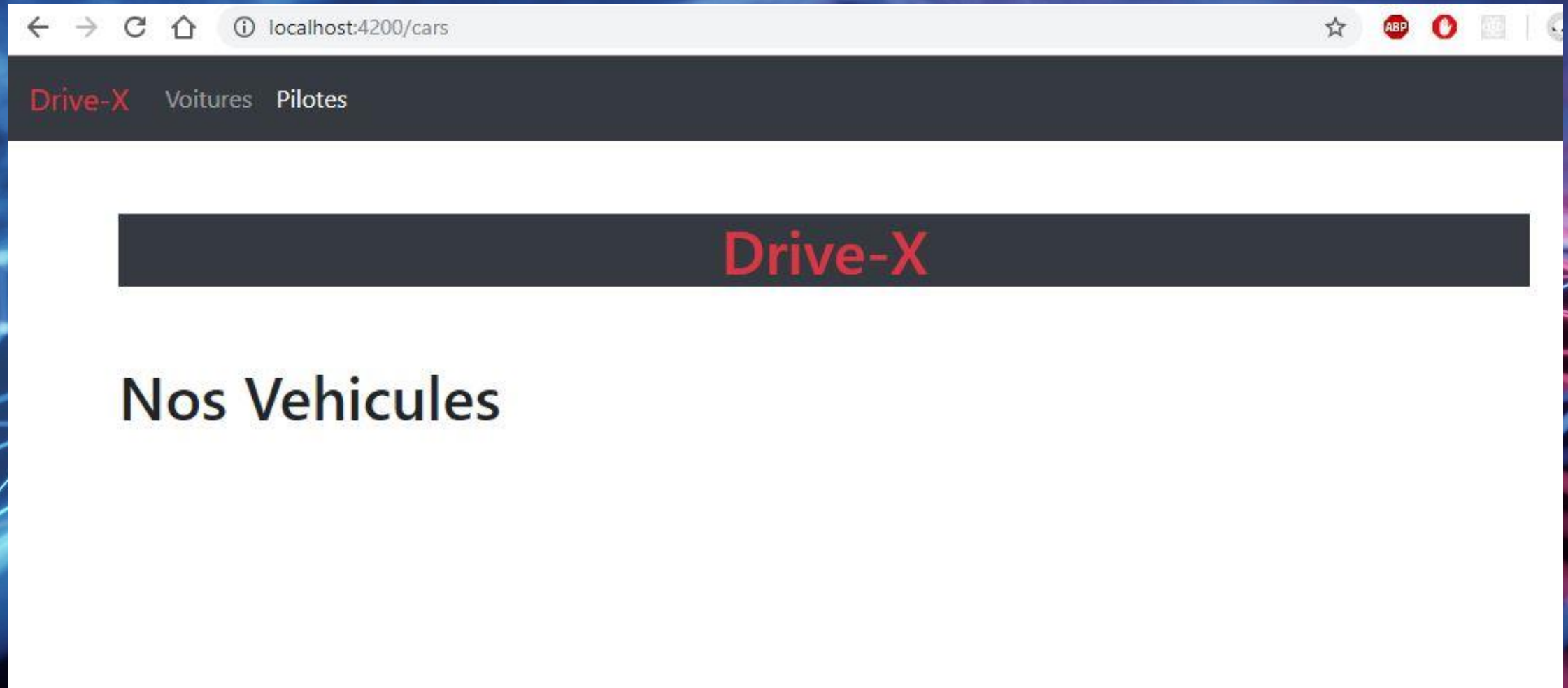

{ **path**: 'cars' , **component**: CarsListComponent }

```
5
6  const routes: Routes = [
7    {path: 'cars' , component: CarsListComponent }
8  ];
9  | You, 3 days ago • initial commit
  | You, 2 days ago | 1 author (You)
```

C'est finis...?

```
3 import { CarsListComponent } from './cars-list/cars-list.component';
4 import { DriversListComponent } from './drivers-list/drivers-list.component';
5
6
7 ✓ const routes: Routes = [
8   {path: 'cars' , component: CarsListComponent },
9   {path: 'drivers' , component: DriversListComponent }
10 ];
11
```

Un soucis ?



Petit raccourci


PROBLEMS

DEBUG CONSOLE

TERMINAL

OUTPUT

```
PS C:\Users\Amar2050\Desktop\Angular Hello World\helloworld> ng g c homePage  
CREATE src/app/home-page/home-page.component.html (24 bytes)  
CREATE src/app/home-page/home-page.component.ts (280 bytes)  
CREATE src/app/home-page/home-page.component.css (0 bytes)  
UPDATE src/app/app.module.ts (764 bytes)  
PS C:\Users\Amar2050\Desktop\Angular Hello World\helloworld> 
```



ng g c homePage

Correction

```
8 const routes: Routes = [  
9   {path: '', component: HomeComponent },  
0   {path: 'cars', component: CarsListComponent },  
1   {path: 'drivers', component: DriversListComponent }  
2 ];  
3
```

app.routing.module.ts

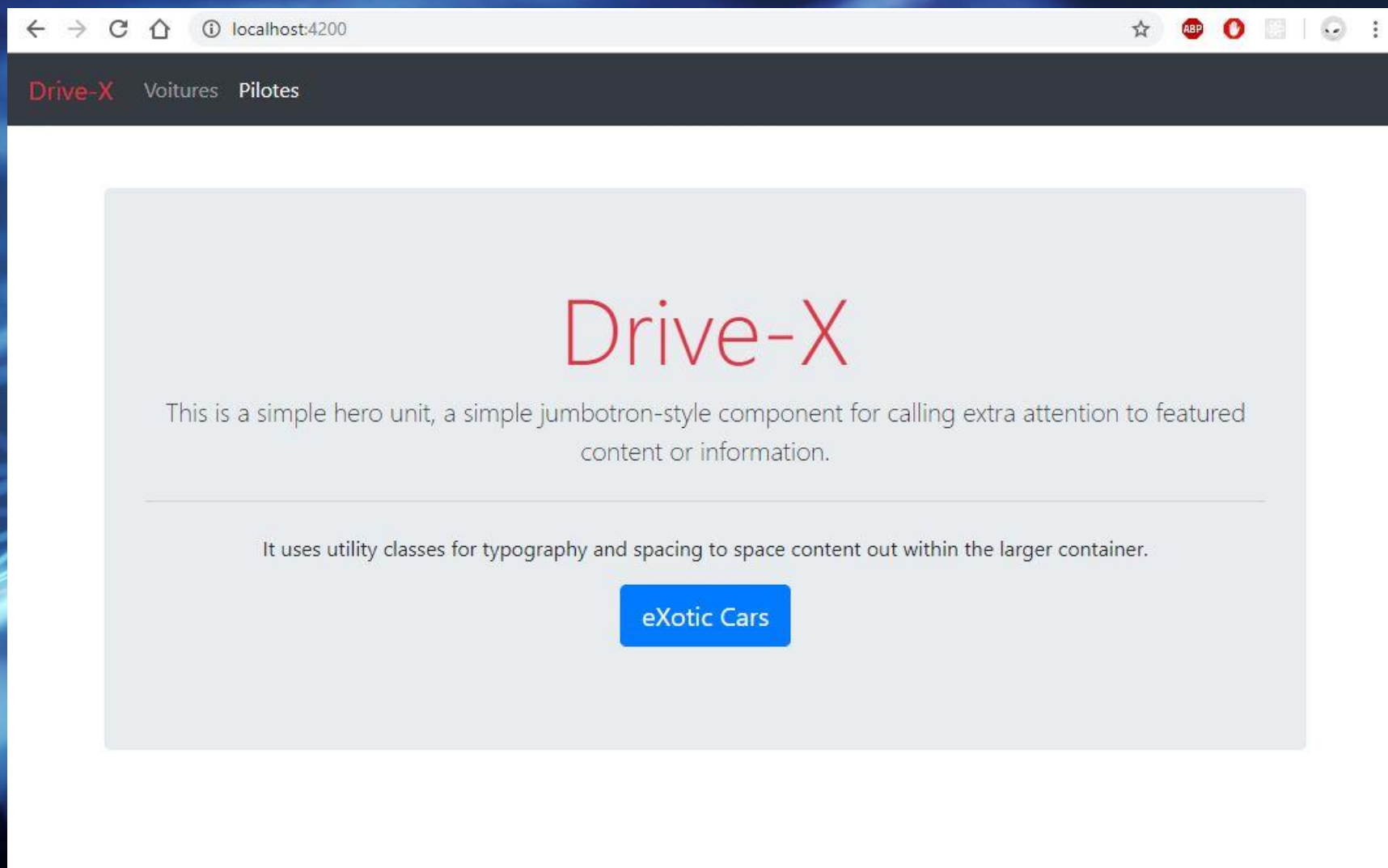
HelloWorld > src > app > <> app.component.html > div.container

You, 10 minutes ago | 1 author (You)

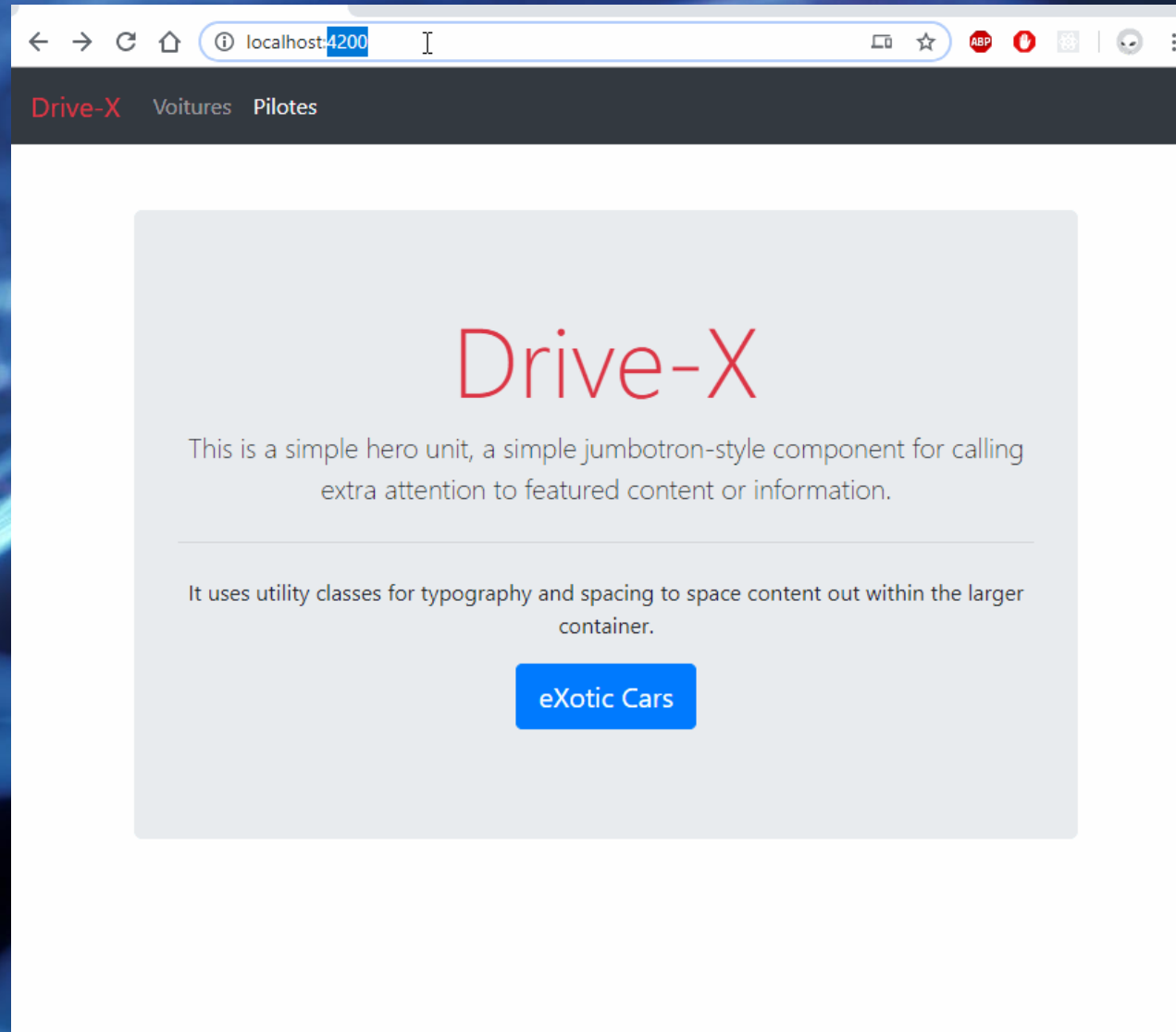
```
1 <app-header></app-header>  
2 <div class="container">  
3   <router-outlet></router-outlet>  
4 </div> | You, 10 minutes ago • Uncommitted change
```

app.component.html

HomePage done



Cas d'usage



404 - fourOhfour

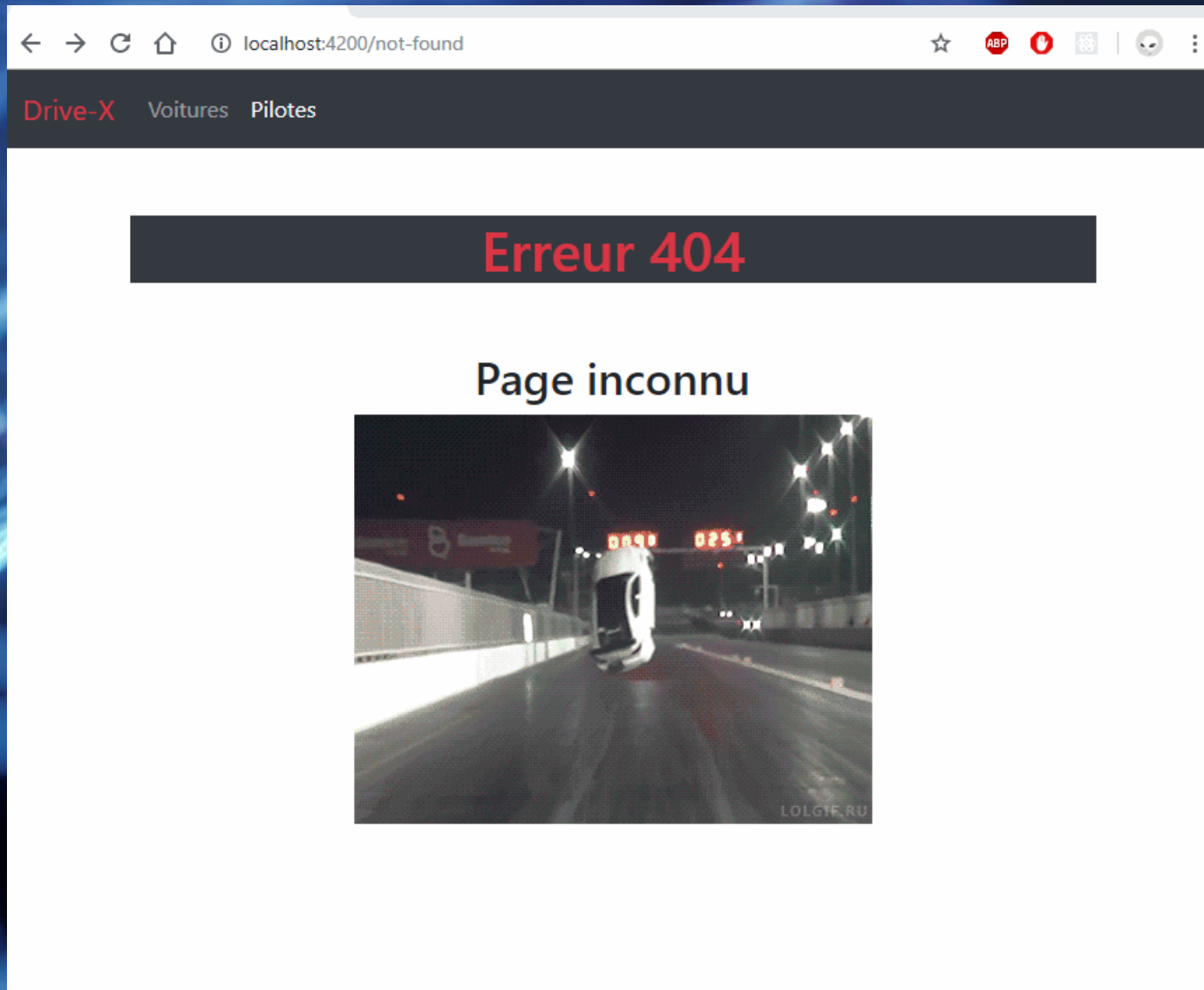
```
HelloWorld > src > app > four-ohfour > <> four-ohfour.component.html > div.text
1  <div class="text-center">
2    <h1 class="my-5 text-danger bg-dark">Erreur 404</h1>
3    <p class="h2">Page inconnu</p>
4    
5  </div>
```

ng g c fourOhfour

redirectTo: 'uneRoute'

```
const routes: Routes = [  
  {path: '', component: HomeComponent },  
  {path: 'cars', component: CarsListComponent },  
  {path: 'drivers', component: DriversListComponent },  
  {path: 'not-found', component: FourOhfourComponent },  
  {path: '**', redirectTo: 'not-found' }  
];
```


404 drag / DA



Gestion de la navigation

HelloWorld > src > app > header > <> header.component.html > nav.navbar.navbar-expand

```
1  <nav class="navbar navbar-expand navbar-dark bg-dark">
2
3      <a class="navbar-brand text-danger" href="/">Drive-X</a>
4
5      <ul class="navbar-nav ">
6          <li class="nav-item">
7              <a class="nav-link" href="/cars">Voitures</a>
8          </li>
9          <li class="nav-item active">
10             <a class="nav-link" href="/drivers">Pilotes</a>
11          </li>
12      </ul>
13
14  </nav>
```

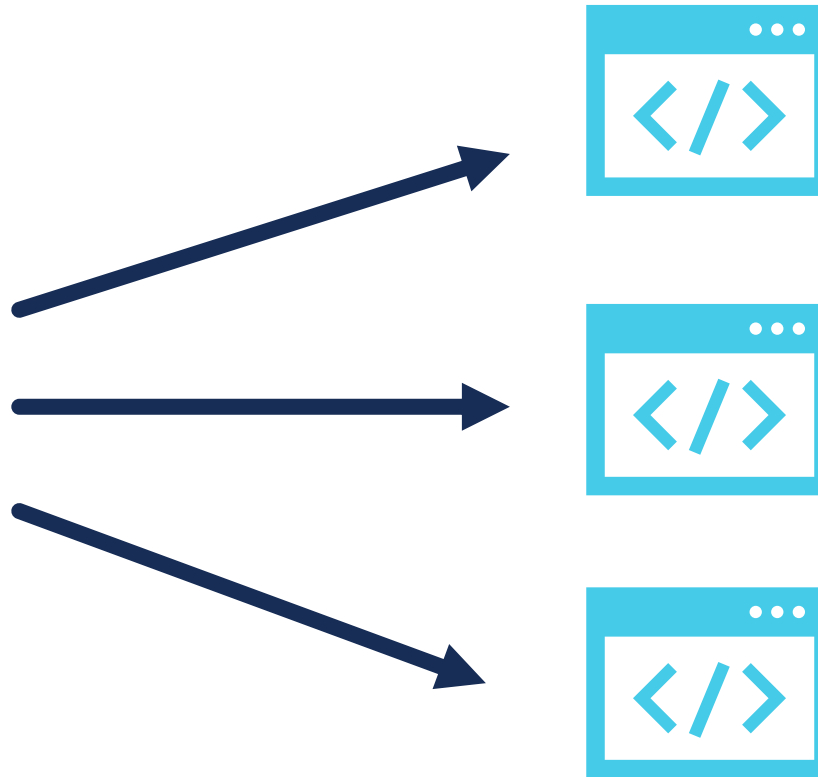

Problème ?



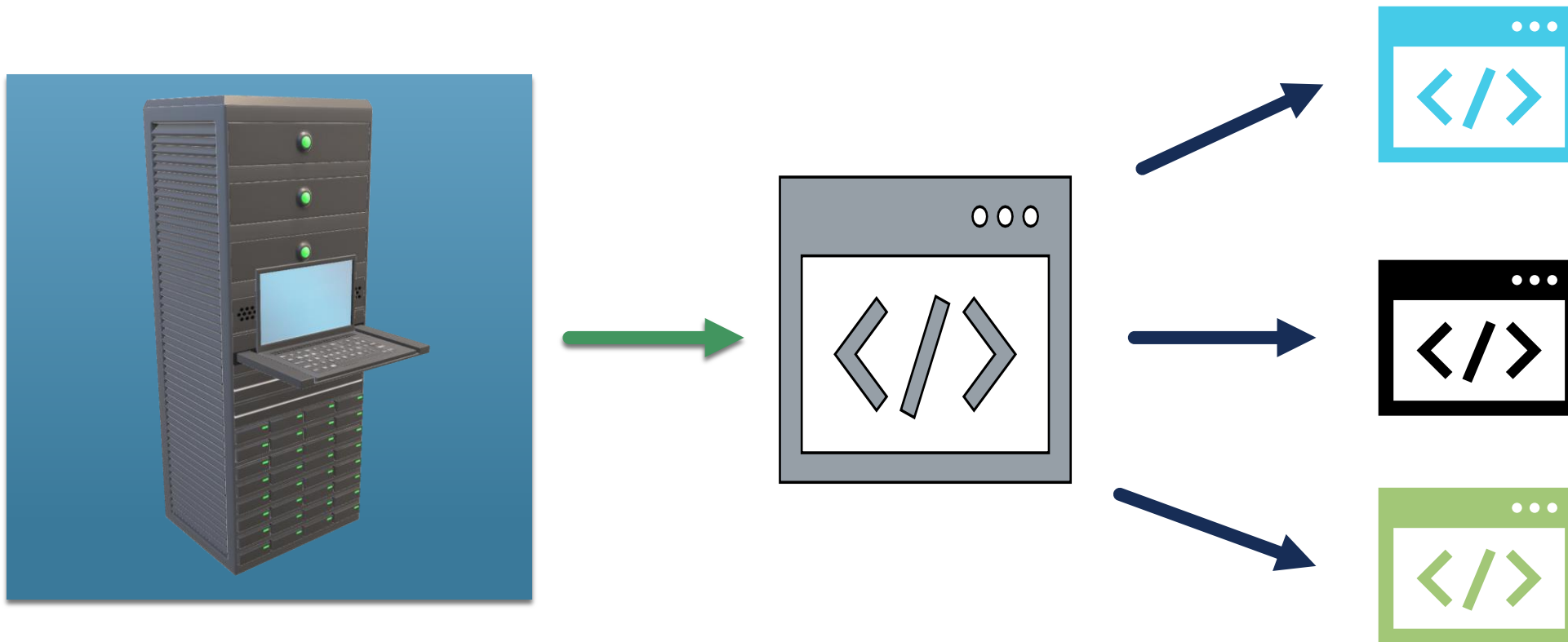
Ah ouais ?



Rappel - Site Web



Rappel - Application Web - SPA




`href` n'est plus `routerLink='cars'`

Testez la diff et Taster la diff (désolé)

Bonus: `routerLinkActive='active'` – sur les `` cars et drivers

Ps: pensez a supprimer la `class= 'active'` du coup !

HelloWorld > src > app > header > <> header.component.html >  nav.navbar.navbar-exp

```
1  <nav class="navbar navbar-expand navbar-dark bg-dark">
2
3      <a class="navbar-brand text-danger" routerLink="">Drive-X</a>
4
5      <ul class="navbar-nav ">
6          <li class="nav-item" routerLinkActive="active">
7              <a class="nav-link" routerLink="cars">Voitures</a>
8          </li>
9          <li class="nav-item" routerLinkActive="active">
10             <a class="nav-link" routerLink="drivers">Pilotes</a>
11          </li>
12      </ul>
13
14  </nav>
```




Résumé du Rooting



1

La balise `<router-outlet>`

Drive-X

This is a simple hero unit, a simple jumbotron-style component for calling extra attention to featured content or information.

It uses utility classes for typography and spacing to space content out within the larger container.

eXotic Cars

```
<!doctype html>
<html lang="en">
  <head>...</head>
  ...<body> == $0
    <app-root _ngghost-dpk-c0 ng-version="8.2.14">
      <app-header _ngcontent-dpk-c0 _ngghost-dpk-c1>...</app-header>
      <div _ngcontent-dpk-c0 class="container">
        <router-outlet _ngcontent-dpk-c0>
        </router-outlet>
        <app-home-page _ngghost-dpk-c2>...</app-home-page>
      </div>
    </app-root>
    <script src="runtime.js" type="module">
    </script>
    <script src="polyfills.js" type="module">
    </script>
    <script src="styles.js" type="module">
    </script>
    <script src="vendor.js" type="module">
    </script>
    <script src="main.js" type="module"></script>
  </body>
</html>
```



Résumé du Rooting



2

`{path:'routename' , component: NameComponent}`



Résumé du Rooting



3

SPA = routerLink='cars'



Fin du Rooting





Aller plus loin sur le Routing...

← → ↻ 🏠 angular.io/guide/router

⌵ ANGULAR FEATURES DOCS RESOURCES EVENTS BLOG routing 🔍 🐦 🔄

INTRODUCTION

GETTING STARTED >

SETUP

FUNDAMENTALS ✓

 Tour of Heroes App >

 Architecture >

 Components & Templates >

 Forms >

 Observables & RxJS >

 Bootstrapping

 NgModules >

 Dependency Injection >

 HttpClient

 Routing & Navigation

 Animations >

TECHNIQUES >

DEV WORKFLOW >

Routing & Navigation

The Angular Router enables navigation from one [view](#) to the next as users perform application tasks.

This guide covers the router's primary features, illustrating them through the evolution of a small application that you can [run live in the browser](#) / [download example](#).

Overview

The browser is a familiar model of application navigation:

- Enter a URL in the address bar and the browser navigates to a corresponding page.
- Click links on the page and the browser navigates to a new page.
- Click the browser's back and forward buttons and the browser navigates backward and forward through the history of pages you've seen.

The Angular Router ("the router") borrows from this model. It can interpret a browser URL as an instruction to navigate to a client-generated view. It can pass optional parameters along to the supporting view component that help it decide what specific content to present. You can bind the router to links on a page and it will navigate to the appropriate application view when the user clicks a link. You can navigate imperatively when the user clicks a button, selects from a drop box, or in response to some other stimulus from any source. And the router logs activity in the browser's

Routing & Navigation

Overview

The Basics

 <base href>

 Router imports

 Configuration

 Router outlet

 Router links

 Active router links

 Router state

 Activated route

 Router events

 Summary

The sample application

 The sample application in action

Milestone 1: Getting started

 Define Routes

 Register Router and Routes

QUIZ 1/5

La balise <router-outlet>...

Possède un Template et une classe

• A

N'est pas obligatoire dans un projet

• B

S'installe avec Bootstrap et npm

• C

Viens du module de Routing

• D

QUIZ 1/5

La balise <router-outlet>...

Possède un Template et une classe

• A

N'est pas obligatoire dans un projet

• B

S'installe avec Bootstrap et npm

• C

Viens du module de Rooting

• D

QUIZ 2/5

La constante routes dans app-routing.module.ts...

Stock tous les composants de l'app

• A

Lie une url a un component créant une page

• B

Constance c'est une fille bien...des fois

• C

Est un tableau d'objets qui représente des routes, l'ordre a une importance

• D

QUIZ 2/5

La constante routes dans app-routing.module.ts...

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Est un tableau d'objets qui représente des routes, l'ordre a une importance

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QUIZ 3/5

Le routerLink ...

Remplace le href pour avoir le comportement SPA

• A

C'est un rasta qui viens sauver Zelda...

• B

Se déclare dans la classe du component pour le rediriger vers la route du Template via le module de tracking

• C

Est lié a `<router-outlet>` et permet d'exécuter un component

• D

QUIZ 3/5

Le routerLink ...

Remplace le href pour avoir le comportement SPA

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C'est un rasta qui viens sauver Zelda...

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• C

Est lié a `<router-outlet>` et permet d'exécuter un component

• D

QUIZ 4/5

RouterLinkActive

Permet d'activer une route la rendant accessible

• A

Est optionnel

• B

Si une route est active cela lui applique une classe CSS ou plusieurs

• C

J'ai pas trop bien compris ça...Mais je l'ai écrit !

• D

QUIZ 4/5

RouterLinkActive

Permet d'activer une route la rendant accessible

• A

Est optionnel

• B

Si une route est active cela lui applique une classe CSS ou plusieurs

• C

J'ai pas trop bien compris ça...Mais je l'ai écrit !

• D

Path

path: '' = page d'accueil

• A

path: '/' = page d'accueil

• B

path: '404' = redirige vers la 404

• C

path: '**' = toutes routes autres que celles déclarées dans ce tableau

• D

Path

path: '' = page d'accueil

• A

path: '/' = page d'accueil

• B

path: '404' = redirige vers la 404

• C

path: '**' = toutes routes autres que celles déclarées dans ce tableau

• D



Reprendre **TOUT** ce qu'on a vu, le refaire **SEUL**

HelloWorld

Brouillon/Test/Prise de
note codant

Garder les deux !
Copier Coller en lisant !

VraiProjet

Au propre & tous pareils

Drive-X