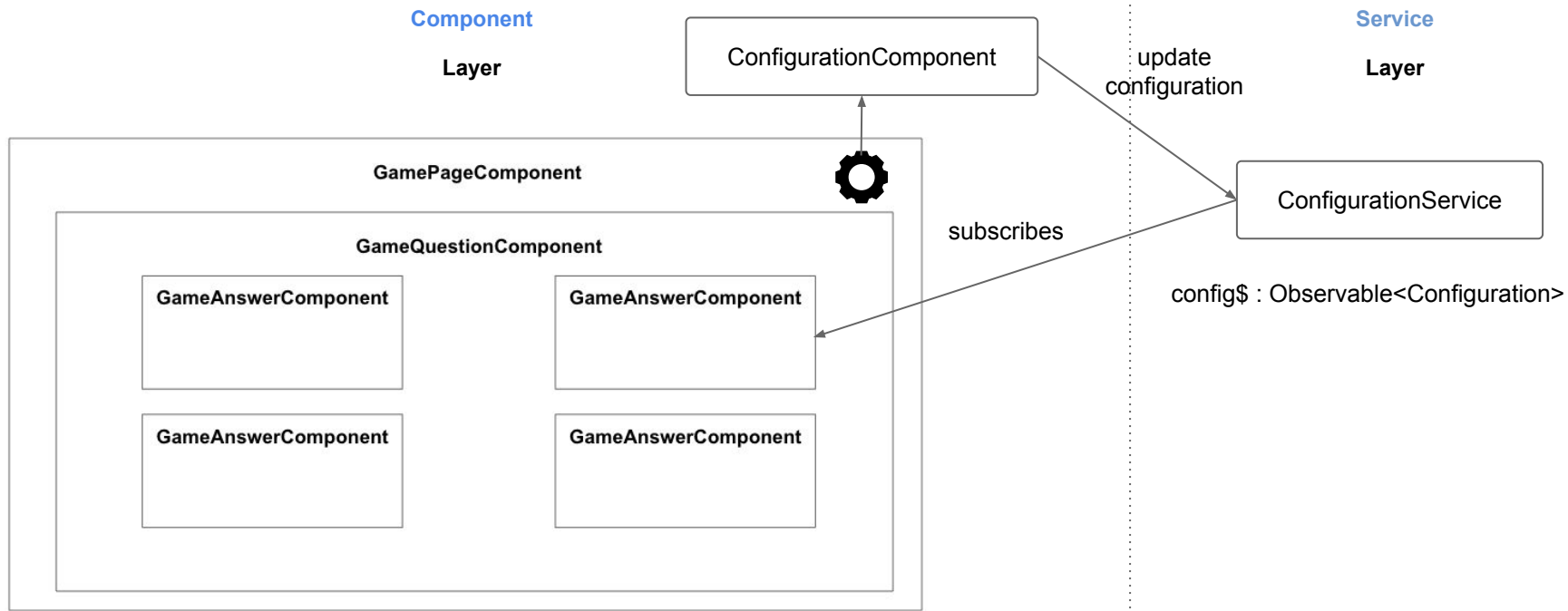


1

Questions & Answers

2

CSS dynamique



3

CSS dynamique

Exemple : Besoin : Changer la taille du texte dynamiquement

```
<span class="text-big"> My text </span>
```

```
.text-big {  
    font-size: 20px;  
}  
  
.text-small {  
    font-size: 10px;  
}
```

4

CSS dynamique

NgClass

HTML

```
<span [ngClass]="{'text-big': true, 'text-small': false}"> My text </span>  
<span [ngClass]="{'text-big': isTextBig, 'text-small': isTextSmall}"> My text </span>  
<span [ngClass]="getFontConfiguration()"> My text </span>  
<span [ngClass]="configurationService.getFontConfiguration()"> My text </span>
```

Typescript (composant/service)

```
getFontConfiguration() {  
  return {'text-big': true, 'text-small': false};  
}
```

[Documentation](#)

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CSS dynamique

ngStyle

HTML

```
<some-element [ngStyle]="{'font-size': '12px', 'color': 'black'}">...</some-element>  
<some-element [ngStyle]="{'font-size': fontSize, 'color': fontColor}">...</some-element>  
<some-element [ngStyle]="getFontConfiguration()">...</some-element>
```

Typescript (composant/service)

```
getFontConfiguration() {  
  | return { 'font-size': this.fontSize, color: this.fontColor };  
}
```

[Documentation](#)

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CSS dynamique

Créer sa propre directive

```
export class ConfigurationService {  
  private quizConfigurations: QuizConfiguration = DEFAULT_CONFIG;  
  
  public quizConfigurations$: BehaviorSubject<QuizConfiguration>  
    = new BehaviorSubject(this.quizConfigurations);  
  
  constructor() { }  
  
  updateConfiguration(config: QuizConfiguration) {  
    this.quizConfigurations = config;  
    this.quizConfigurations$.next(this.quizConfigurations);  
  }  
}
```

7

CSS dynamique

Créer sa propre directive

```
@Directive({
  selector: '[appAdaptFontSize]',
})
export class AdaptFontSizeDirective {
  constructor(
    private el: ElementRef,
    private configurationService: ConfigurationService
  ) {
    this.configurationService.quizConfigurations$.subscribe(
      (quizConfiguration) => {
        this.el.nativeElement.style.fontSize = quizConfiguration.fontSize;
      }
    );
  }
}
```

+ Déclarer sa directive dans app.module.ts

```
@NgModule({
  declarations: [
    AppComponent,
    QuizListComponent,
    QuizComponent,
    AdaptFontSizeDirective
  ],
  imports: [
```

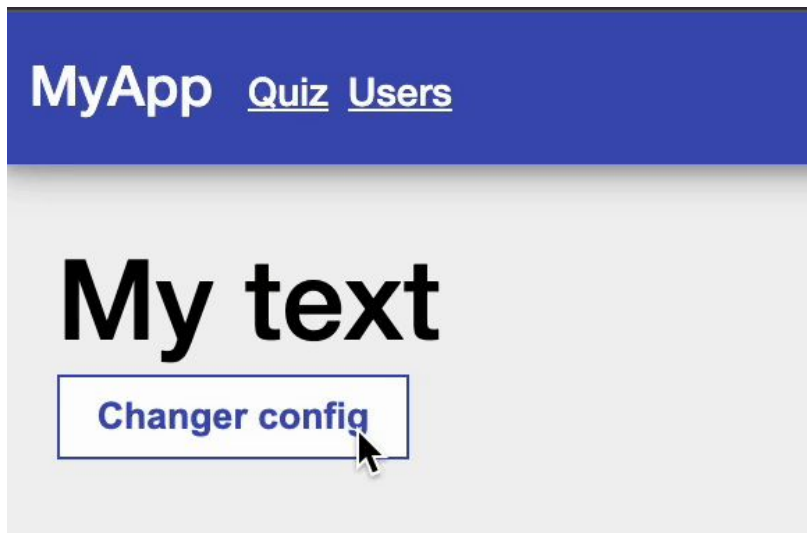
[Documentation](#)

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CSS dynamique

Créer sa propre directive

```
<span class="title" appAdaptFontSize> My text </span>
```



[Documentation](#)

9

Typage @Input

```
styleUrls: ['./test.component.scss']
})
export class TestComponent {
  @Input() quiz: Quiz;

  constructor() {
  }
}
```

Property 'quiz' has no initializer and is not definitely assigned in the constructor. ts(2564)

(property) TestComponent.quiz: Quiz

[View Problem](#) [Quick Fix... \(%.\)](#)

Solution 1 : Initialiser l'@Input dans le constructor

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Solution 2/non idéale

EXPLORER

- STARTER-PS6
 - backend
 - front-end
 - .angular
 - .vscode
 - node_modules
 - src
 - app
 - test
 - test.component.html
 - test.component.scss
 - test.component.spec.ts
 - test.component.ts
 - app-routing.module.ts
 - app.component.html
 - app.component.scss
 - app.component.ts
 - app.module.ts
 - assets
 - favicon.ico
 - index.html
 - main.ts
 - styles.scss
 - .editorconfig
 - .gitignore
 - angular.json
 - package-lock.json
 - package.json
 - README.md
 - tsconfig.app.json
 - tsconfig.json
 - tsconfig.spec.json

front-end > tsconfig.json > {} compilerOptions

```
1  /* To learn more about this file see: https://angular.io/config/tsconfig
2  {
3    "compileOnSave": false,
4    "compilerOptions": {
5      "strictPropertyInitialization": true,
6      "baseUrl": "./",
7      "outDir": "../dist/out-tsc",
8      "forceConsistentCasingInFileNames": true,
9      "strict": true,
10     "noImplicitOverride": true,
11     "noPropertyAccessFromIndexSignature": true,
12     "noImplicitReturns": true,
13     "noFallthroughCasesInSwitch": true,
14     "sourceMap": true,
15     "declaration": false,
16     "downlevelIteration": true,
17     "experimentalDecorators": true,
18     "moduleResolution": "node",
19     "importHelpers": true,
20     "target": "ES2022",
21     "module": "ES2022",
22     "useDefineForClassFields": false,
23     "lib": [
24       "ES2022",
25       "dom"
26     ]
27   },
28   "angularCompilerOptions": {
29     "enableI18nLegacyMessageIdFormat": false,
```

PROBLEMS 4 OUTPUT DEBUG CONSOLE TERMINAL

```
/Users/remipourtier/.zprofile:10: bad assignment
remipourtier@Remis-MBP starter-ps6 %
```

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Typage @Input

Solution 3/idéale

```
//  
export class QuizComponent implements OnInit {  
  @Input()  
  quiz: Quiz | undefined;
```

```
<div class="card" *ngIf="quiz !== undefined">  
  <h2>  
    <i class="fab fa-lemon" />
```

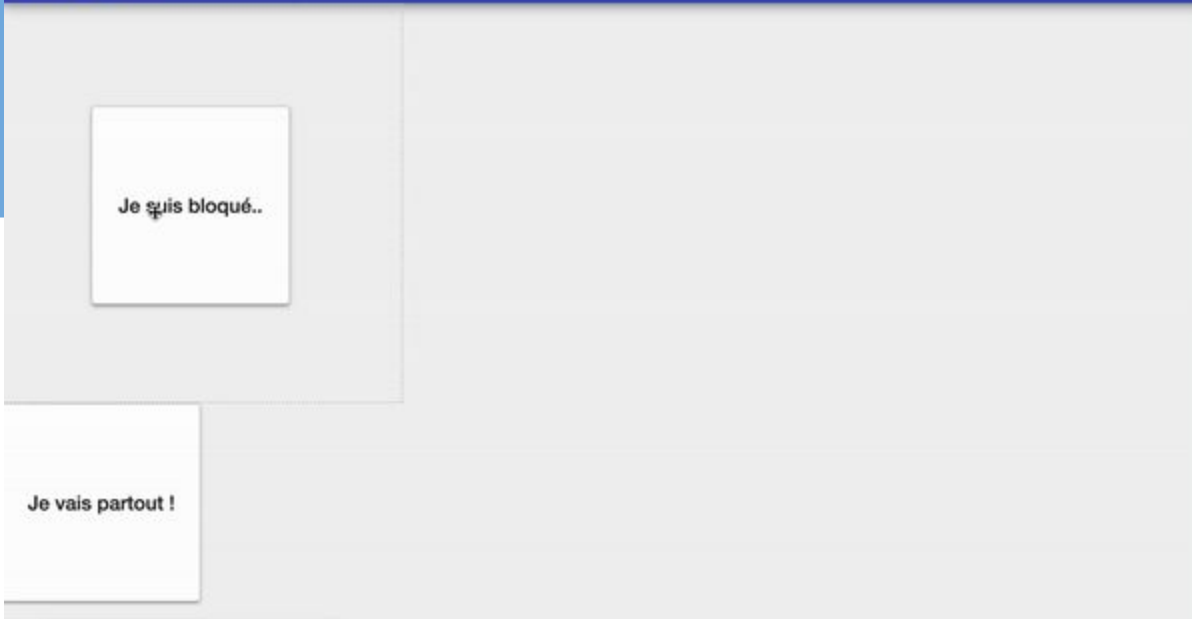
12

Drag & Drop

ng add @angular/cdk

```
TS app.module.ts M X
front-end > src > app > TS app.module.ts > ...
4 | import { HttpClientModule } from '@angular/common/http';
5 | import { DragDropModule } from '@angular/cdk/drag-drop';
...
imports: [
  BrowserModule,
  ReactiveFormsModule,
  AppRoutingModule,
  HttpClientModule,
  DragDropModule,
],
providers: [],
bootstrap: [AppComponent],
})
```

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```
<div class="example-boundary">  
  <div class="example-box" cdkDragBoundary=".example-boundary" cdkDrag>  
    Je suis bloqué..  
  </div>  
</div>
```

```
<div class="example-box" cdkDrag>Je vais partout !</div>
```

14

Gestion sons/images/vidéos

```
const fileUrl = "http://commondatastorage.googleapis.com/codeskulptor-assets/Epoq-Lepidoptera.ogg";
```

15

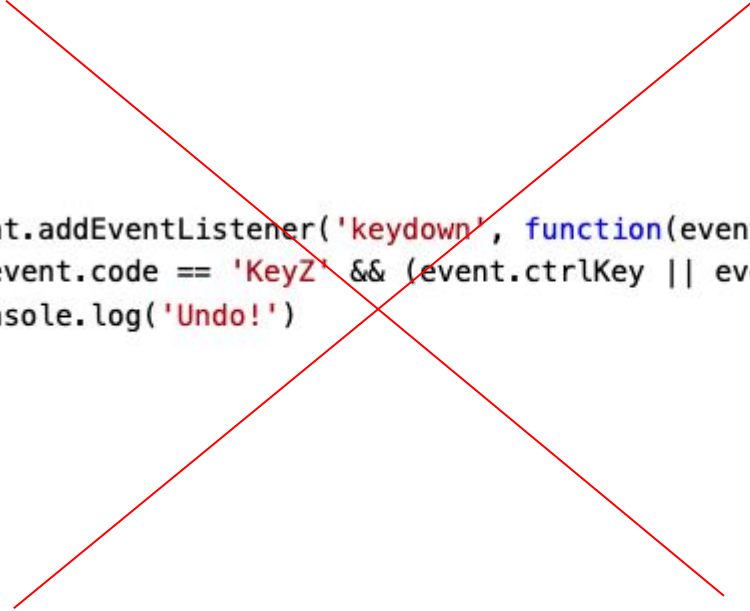
Jouer un son

```
const fileUrl = "http://commondatastorage.googleapis.com/codeskulptor-assets/Epoq-Lepidoptera.ogg";  
const audioFile = new Audio(fileUrl);  
audioFile.play();  
audioFile.pause();
```

[Documentation](#)

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Mouse/Keyboard



```
document.addEventListener('keydown', function(event) {  
  if (event.code == 'KeyZ' && (event.ctrlKey || event.metaKey)) {  
    console.log('Undo!')  
  }  
});
```


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Mouse/Keyboard

```
export class AppComponent {  
  
  @HostListener('mousemove', ['$event'])  
  onmousemove(event: MouseEvent) {  
    console.log('mouse event x position: ', event.x);  
    console.log('mouse event y position: ', event.y);  
  }  
  
  @HostListener('document:keydown', ['$event'])  
  onkeydown(event: KeyboardEvent) {  
    console.log('event: ', event.key);  
  }  
}
```

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Mouse/Keyboard

Keyboard Events:
keydown, keyup, keypress

Mouse Events: click,
dblclick, mousedown, mouseup,
mousemove, mouseover,
mouseout, etc...

[Documentation keyboard
and mouse events](#)
[Documentation Hostlistener](#)
[Documentation MouseEvent](#)
[Documentation KeyboardEvent](#)

