

Angular 5 Training Course

Exercise M-game

Intro

- This exercise converts a word game built in jQuery to work in Angular.
- The game displays the letters of a word in random order. The user needs to click on the letters in the correct order to spell the word.
- Play the game at **useful/word-game.html**
- Take any relevant code from **word.js** and **style.css**.

Angular implementation

- Define a variable containing the word.

```
word : string = "squirrel";
```

- Using `split()` and an array-shuffle function, create a randomised array of letters.
- Using `*ngFor` to iterate over the array.

```
<p *ngFor="let l of letters">{{ l }}</p>
```

Letter component

- Create a letter component to display each letter.
- Pass a letter in as an **Input**.
- The component will emit a select event as an **Output** when clicked on.
- The main component would contain code like:

```
<app-letter *ngFor="let l of letters"
  [letter]="l" (select)="addLetter(l)" ></app-letter>
```

- The `addLetter` method could set a boolean to true.
- The CSS drop class will be applied to the letter when clicked on

```
<p class="letter" (click)="select()"
  [ngClass]="{ 'drop' : selected }">{{ letter }}</p>
```

Game Over

- The word can be revealed as the user types.
- It turns green if they have spelt the word correctly.

```
<p id="answer"  
[ngClass]="{ 'correct' : game }">{{ userWord }}</p>
```