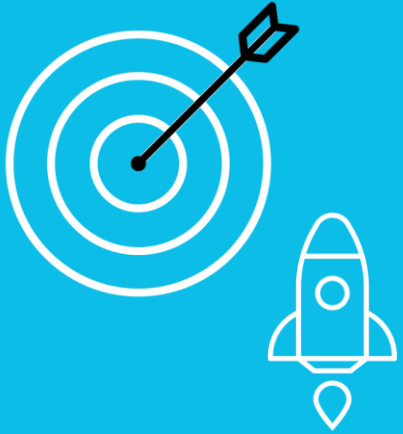


Angular 8

Lesson 5: Additional Features of Angular 8

KEY OBJECTIVES



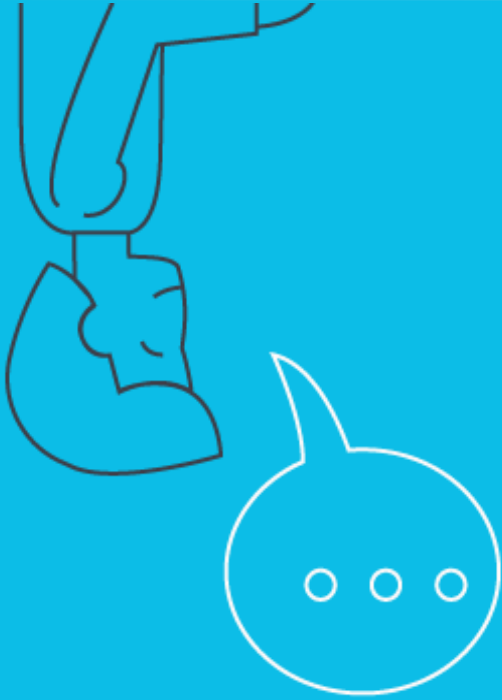
At the end of this lesson, you will be able to:

- Discuss about animation
- Discuss about unit testing
- Discuss about Observables
- Discuss about Angular Universal

Additional Features of Angular 8

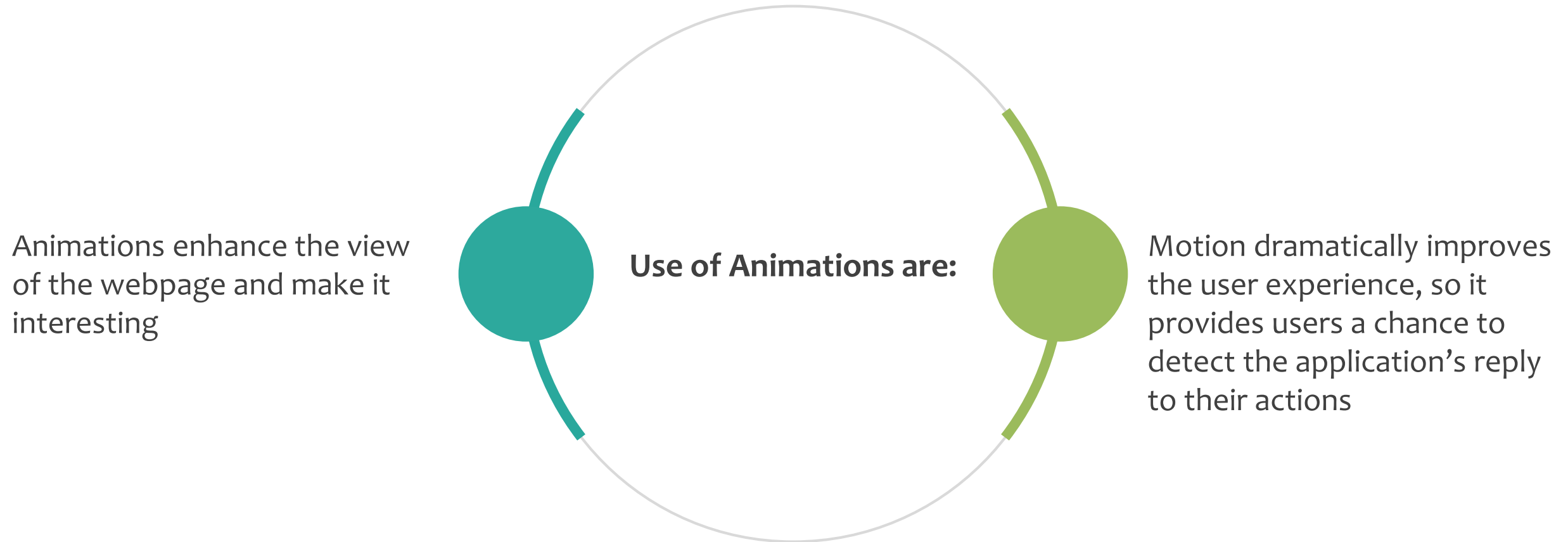
Animations

What is Animation?



It is a process of drawing, designing, making layouts, and preparation of photographic
They are added into the multimedia and gaming products
Cartoons and Anime are the best examples





Process to Set-up Animation

- First, import a new animation package through the command

```
"npm install -save@angular/animations."
```

- Add the BrowserAnimationsModule to our imports[] array in AppModule.
- Then the modules needs to be imported from

```
@angular/platform-browser/animations' => import  
    {BrowserAnimationsModule }  
from '@angular/platform-browser/animations' ( in AppModule)
```

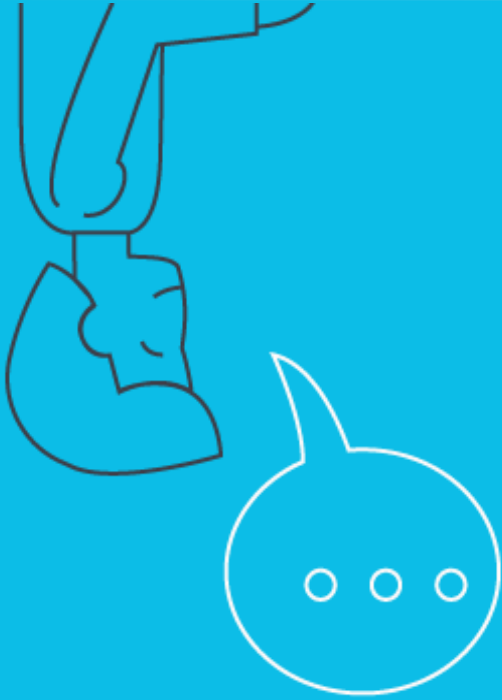
- Later, we import components from

```
@angular/animations instead of @angular/core
```


Additional Features of Angular 8

Unit Testing

What is Unit Testing?



It is a type of software testing where the specific components of the software are tested
This process is done during the development of application

A unit can be particular, program, function, procedure, etc..

Unit-testing is created with the help of Angular CLI



- Angular CLI downloads and installs everything we need to test Angular app with the help of **‘jasmine test framework’**
- To run the test use the command in CLI

```
ng test
```

- After the test runs it launches the karma test runner in the file

```
10% building modules 1/1 modules
...INFO [karma]: Karma v1.7.1 server has started in the
localhost      http://0.0.0.0:9876/
...INFO [launcher]: Launch the browser Chrome ...
...INFO [launcher]: Start the browser Chrome
...INFO [Chrome ...]: Connect on the socket ...
Chrome ...: Executed 3 of 3 SUCCESS (0.185 secs / 0.303 secs)
```

Additional Features of Angular 8

Observables

What are Observables?

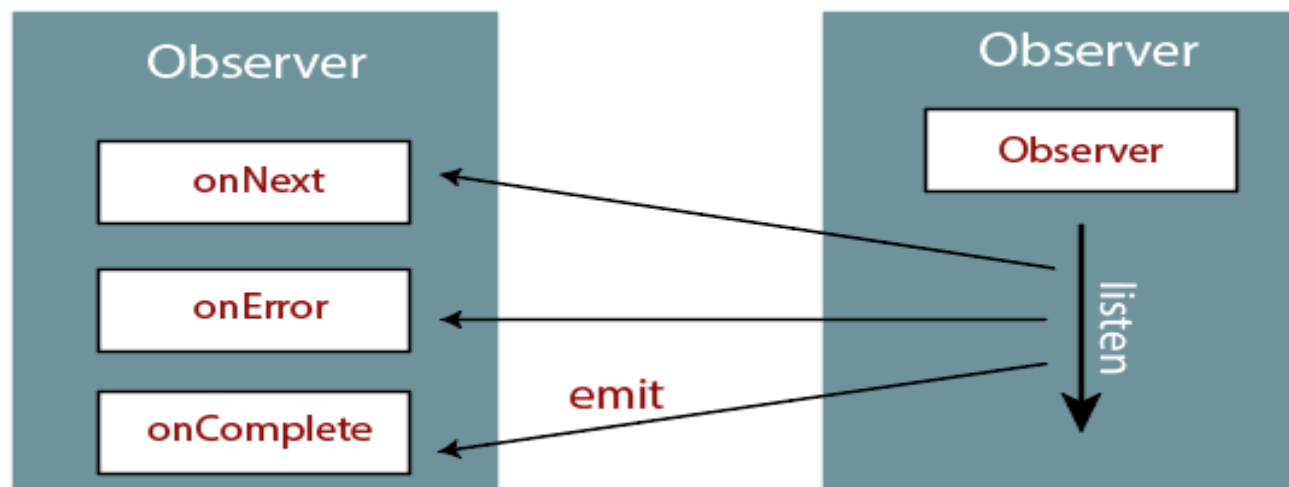


It gives support for transferring a message
between publisher and subscription in the
application
It can assign multiple values of any type like literal,
message, depending on the content



Observables are an object that defines the callback method to handle three types of notification, and they are:

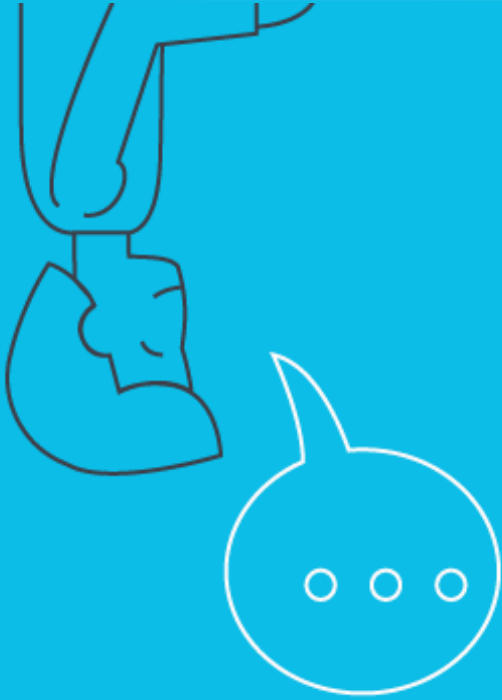
- **Next(Required):** The handler delivered value called zero after the execution of start
- **Error(Optional):** the handler is used to an error warning, an error stops the execution
- **Complete(optional):** Once the full execution notification is viewed, the value can continue delivering to the next handler



Additional Features of Angular 8

Angular Universal

What is Angular Universal?

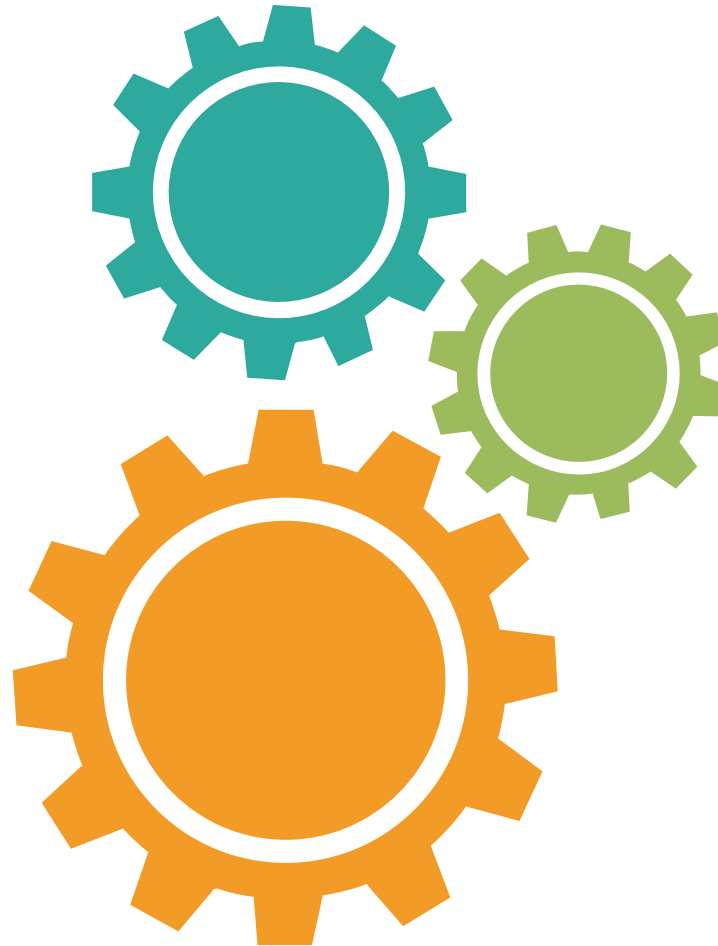


It is a technology that allows server-side rendering
for Angular apps
Angular apps are the single-page app, and it runs
on client-side browser



Promote web crawlers by search engine optimization (**SEO**)

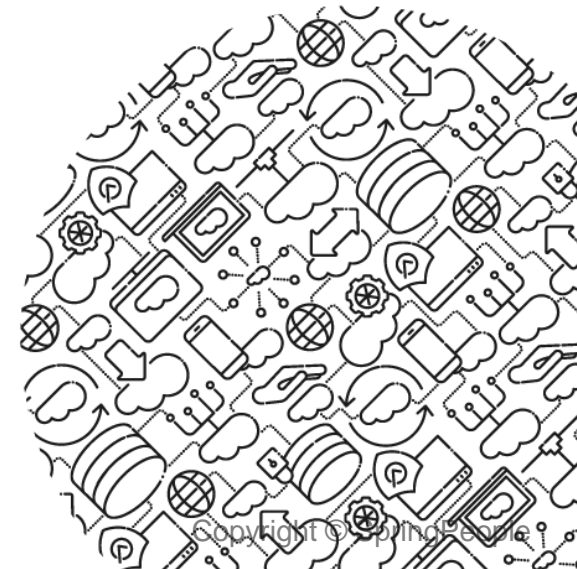
Display the first page with a first-contentful paint (**FCP**)



Enhance performance on mobile and the low-powered devices.

DOUBT'S

We wish you to take nothing except “Pure Learning.” Leave the doubt's to us.





LET'S SUMMARIZE

- It is a process of drawing, designing, making layouts, and preparation of photographic. They are added into the multimedia and gaming products
- It is a type of software testing where the specific components of the software are tested
- It gives support for transferring a message between publisher and subscription in the application
- It is a technology that allows server-side rendering for Angular apps. Angular apps are the single-page app, and it runs on client-side browser

THANK YOU

