

# Components communication

## 1. Parent-Child component communication

# Component communication

- In this chapter we are going to focus on various ways of components to communicate and transfer information between themselves.
- We will discuss the different ways, when to use them, their advantages and disadvantages
- Understanding components communication will make the components lifecycle hooks much clearer
- The lessons can also be expended to include directive, which means all the communication also effect communication between a component and a directive and a directive back to the component.

# Components Tree

- When building an angular app we are creating a component tree, usually we have one root component called **AppComponent** which starts a tree of components
- A component can place another component or a directive and by doing so expanding the tree of components
- In this chapter we will focus on communication between a parent component do a child component/directive

# Communication direction

- When discussing a communication between components it is also important to address the direction of the communication
- For example from father component to son component, or from son pushed to father

# Lifecycle hooks

- Component and directives have lifecycle hooks, those are methods that will be called on certain times on the life of a component
- Passing communication between components / directives it is important to note when that data will be available for us to use
- It is important to understand the lifecycle hooks, when they are called, what we usually doing in them, and which data from the communication is available for us to use

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

@Component({...})
export class HelloComponent implements OnInit {
  ngOnInit() { ... }
}
```

# Components usability

- How we choose to communicate between components can effect our components reusability
- When passing communication between components we often create couplings which effect the reusability of our component.

# Summary

- Let's start investigate how component and directives can communicate between themselves
- Understanding this important topic will make us understand
  - The advantages and disadvantages of each communication method
  - We will understand the lifecycle hooks
  - We can make our components more generic and reusable

# Thank You

**Next Lesson: 2. @Input**