Components communication

Two components want to transfer data between them

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.

Componens 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 expending the tree of components

- Some of the communication methods are between father component and 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

```typescript
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: @Input