

DOM 1 - Higher order functions & callbacks

2026

Programming 2 @ EK

Agenda

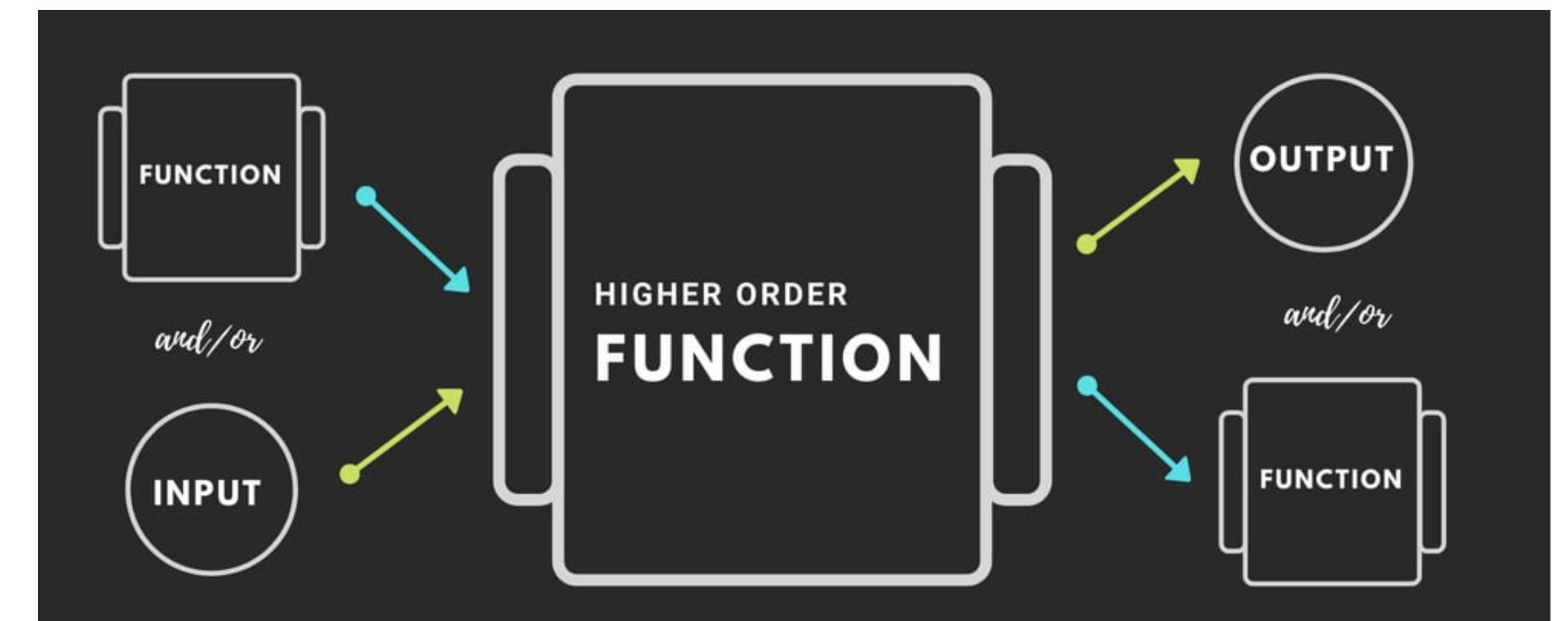
DOM 1 - Higher order functions & callbacks

- Higher order functions & callbacks
 - Foreach loop
 - Filtering an array
 - Setting a timeout
- DOM manipulation
 - Event and eventlistening
- Event driven programming
 - The “Click” event

What is a higher order function?

Definition

- In JavaScript **a function is a value** just the same way as a string, a number or a boolean value.
- A higher order function is a function that takes another function as an argument.
- In some circumstances, a higher order function can also return a function



What is a higher order function?

Not a higher order function

```
function isLegalAge(age){  
    . . .  
}
```

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Data as input

What is a higher order function?

A higher order function

```
const calculateAge = function(){
```

```
    ...
```

```
}
```

```
function isLegalAge(calculateAge){
```

```
    ...
```

```
}
```

Behaviour as input

What is a higher order function?

A higher order function

```
const calculateAge = function() {  
    ...  
}
```

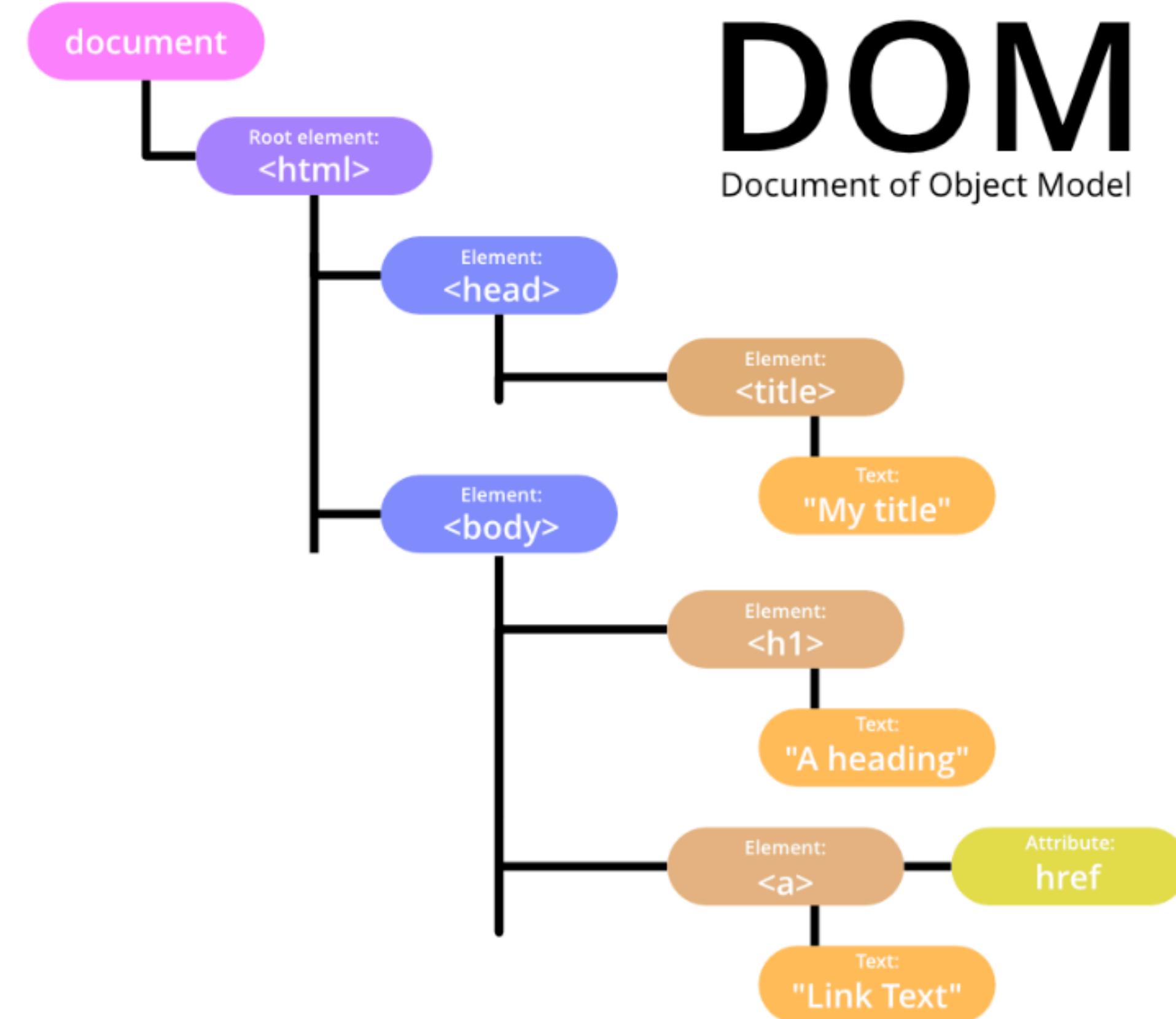
Callback function

```
function isLegalAge(calculateAge) {  
    ...  
}
```

Higher order function

Document Object Model (DOM)

HTML



We interact with the DOM with the API: `document`.

Document Object

DOM traversal & manipulation

```
document.querySelector(".subtext")
```

The observer pattern

Event driven programming

Observer is a behavioral design pattern that lets you define a subscription mechanism to notify multiple objects about any events that happen to the object they're observing.

