

JavaScript

Events

PHP web development 2020/2021

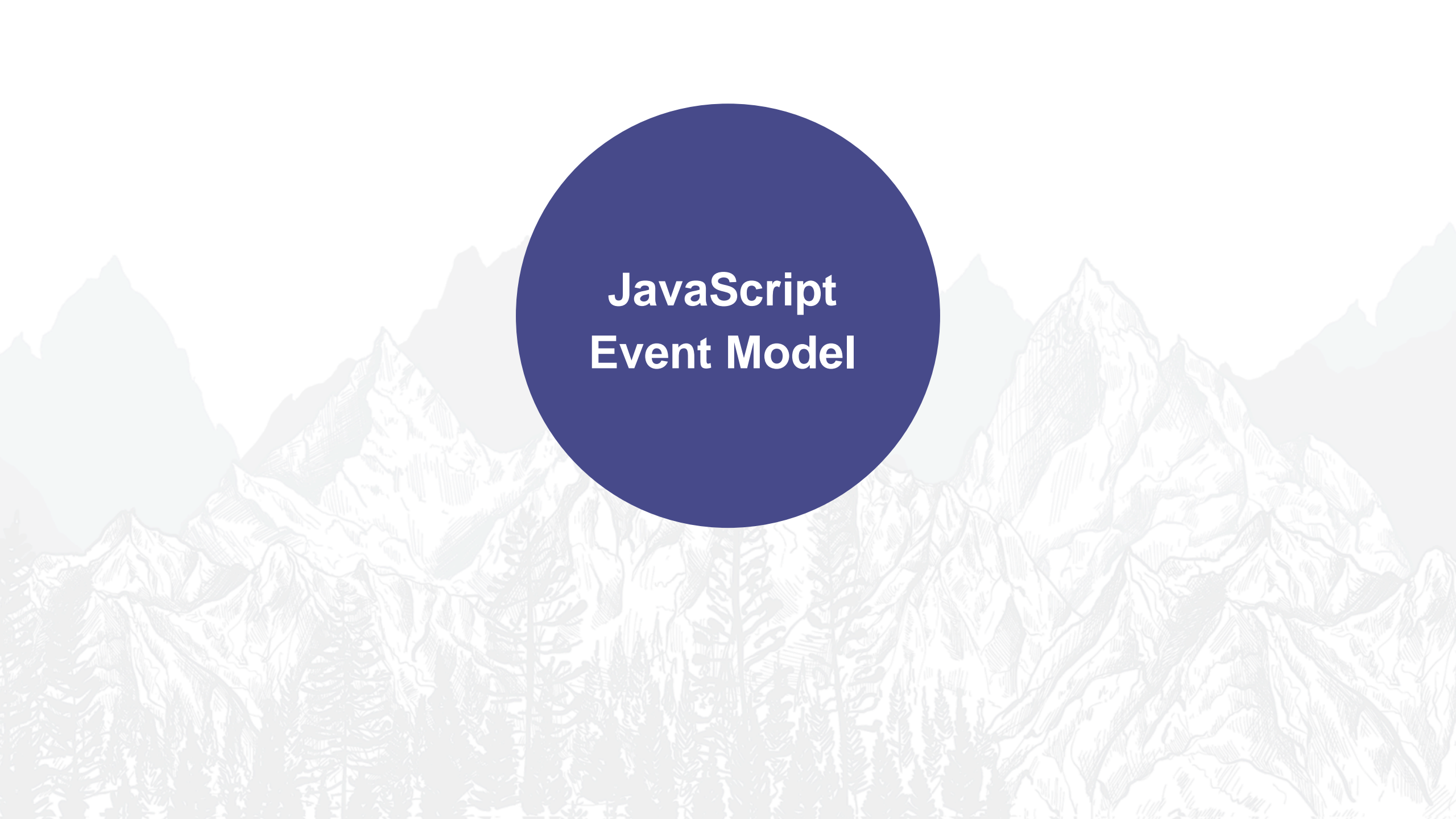
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JavaScript Event Model

JavaScript Event Model

JS Event Model

- **DOM event model** - allows user-browser interaction
- Consists of event/events and event listener(s), attached to a DOM object



Event Types

Event types

event types

Event type groups

- **Mouse** events
- **Touch** events
- **Form** events
- **Keyboard** events
- **DOM** events
- **Custom** events
- [Full event types list](#)

Event Types

Mouse Events	Touch Events	Keyboard Events	UI Events	Focus Events
click	tap	keypress	load	blur
hover	touchstart	keydown	abort	focus
mouseup	touchend	keyup	select	focusin
mousedown	touchmove		resize	focusout
mouseover	touchcancel		change	
mouseout	touchenter		input	
	touchleave			





Registering an Event

Event Handlers

Event Handler

- Registering an event through a **callback function** for a specific event type and for a specific DOM element/s
- We can register event as -
 - a HTML attribute
 - using a DOM property
 - using DOM event handler

HTML Attribute

in HTML

```
<button onclick="onButtonClick()">Click Me</button>
```

in JS

```
function onButtonClick() {  
    console.log("You clicked the Button");  
}
```

As an HTML Attribute - TASK

Напишете JS, с който при преминаване с мишката над картинката - от усмихната става сериозна и текста под картинката се променя от I am serious на Just Kidding!



I am serious



Just kidding

Register Event Handlers using a property of a DOM element

Register Event Handlers using
a property of a DOM element

html

```
<button id="click-button">Click me</button>
```

JavaScript

```
var button = document.getElementById("click-button");  
    button.onclick = function onClick() {  
        console.log("You clicked the button");  
    }
```

- a JS is prepared /**the button with id=click-button**/
- it waits for an event - to be clicked /**button.onclick**/
- and will do what is set in the script /**console.log("You clicked the button")**/

Register ... a property of a DOM element - task

Напишете JS код, който сменява настроението на Smiley след натискане на бутон.



Using DOM Event Listeners

```
domElement.addEventListener(eventType, eventHandler, isCaptureEvent);
```

```
var button = document.getElementById("click-button");  
button.addEventListener("click", whenClickedFunc, false);  
function whenClickedFunc() {  
    console.log("You clicked me");  
}
```

```
var button = document.getElementById("click-button");  
button.addEventListener("click", function () {  
    console.log("You clicked me");  
}, false);
```


Using DOM Event Listeners - TASK

Напишете JS код, който сменява настроението на Smiley след натискане на бутон. Използвайте слушател на събитие.



I am serious

Change Mood



Event Object

Event Object

Event Object

- When handling an event we/event handlers/ have access to the **event object**.
It contains info for -
 - the event type
 - event target
 - the key /if keyboard event/ that has triggered the event
 - the mouse button /if mouse event/ that has been clicked and triggered the event
 - the mouse position on the screen

For debugging purposes

to access the event target

```
function onClick(event) {  
    console.log(event.target);  
    console.log(event.type);  
    console.log(event.clientX, event.clientY);  
}  
  
button.addEventListener("click", onClick, false);
```

Questions?



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