

Henning Muszynski

Session 4

# JavaScript for Web



# Feedback



What did we learn last time

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**Re-examination**

## NodeList vs. Array

```
const divs = document.querySelectorAll('div')
divs.forEach(div => {
  /* ... */
})

divs.map(div => { /* ... */ }) // throws exception

// turn NodeList into array first:
[...divs].map(div => { /* ... */ })
```

# Manipulating the DOM

## Creating new elements

```
const div = document.createElement('div')
div.innerHTML = '<p>Text</p>'
// or
div.innerText = 'Text'

document.createTextNode('Text')
```

# Manipulating the DOM

Adding, removing and replacing elements

```
document.body.appendChild(div)  
element.appendChild(div)
```

```
document.body.insertBefore(newElement, referenceElement)
```

```
document.body.replaceChild(newElement, oldElement)  
document.body.removeChild(element)
```

```
// emptying element  
element.innerHTML = '' // removes all children + listeners
```

# Manipulating the DOM

Working with CSS classes

```
element.classList.add('cool-class')
element.classList.remove('bad-class')
element.classList.contains('another-class')
```

# Manipulating the DOM

## Adding event listeners

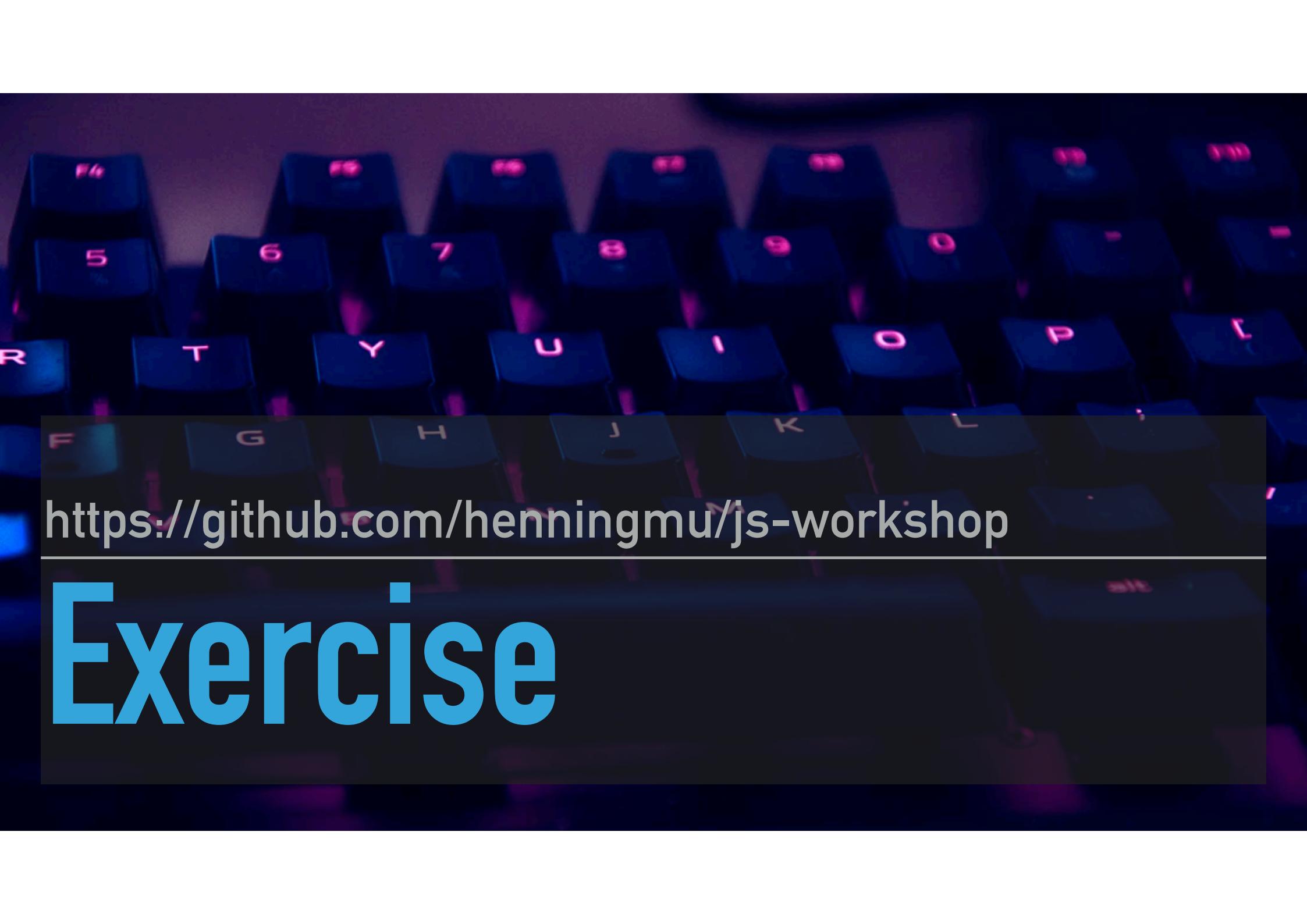
```
element.addEventListener('click', (event) => {  
  /* ... */  
})
```

```
element.addEventListener('change', (event) => {  
  /* ... */  
})
```

## Load data with fetch

Interact with APIs - the modern way of making HTTP requests

```
fetch("https://api.punkapi.com/v2/beers")
  .then(response => response.json())
  .then(beers => {
    // Do something with the loaded data
  })
  .catch(error => {
    // Handle the error
  })
```



<https://github.com/henningmu/js-workshop>

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# Exercise

## Store data in LocalStorage

- ▶ Synchronous Key-Value Storage
- ▶ Only Strings as values

```
localStorage.setItem('key', value)
```

```
localStorage.getItem('key')
```

```
localStorage.removeItem('key')
```

## Store data in LocalStorage

Read and write complex data

```
const data = [{ id: 1, text: 'Milk' }, { id: 2, text: 'Bread' }]  
setItem('data', JSON.stringify(data))  
JSON.parse(getItem('data'))
```



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# Exercise



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# Quick Feedback