

Hi class 🖐️

Let's learn some React.

That's me

- Alex
- 36 years old
- web development since 15+ years
- intense work with React for 5 years
- teaching since 4 years



Who are you? 🤔

How we are going to work

Exercises all the way

- Learning path is divided into **sessions**
- A sessions has overall **learning objectives**
- Each sessions is a **set of exercises**
- Example solutions are provided

Very hands-on. Always working on structured exercises.

Homework: Message Board

- Special kind of exercises
- **Project** that spans **across all React sessions**
- Work always continues with each session
- Apply new knowledge from session to the project

Questions so far?

Introduction to React

Session 01



Thinking in UI components

What is a UI component?

- Building blocks for the UI
 - encapsulates specific functionality and styles
- Modular
 - independent from other components
- Self-contained
 - brings everything it needs to work
- Reusable
 - can be used multiple times in different places
- Interface
 - receive data or functionality via well defined concept



EKENÄSET

Armchair

€229,-

★★★★★ (7)



More options





What are you looking for?



Enter postal code



Select store

Shopping bag

...



[Check delivery and pick-up options](#)



UPPDATERA

Box, green, 24x17 cm

€3,99

● [Check delivery and pick-up options](#)

805.040.54

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VARDAGEN

Jug, patterned/dark grey-green, 2 l

€14,99

● [Check delivery and pick-up options](#)

205.766.52

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Continue to checkout

What is React?

What is React?

- Build user interfaces out of individual pieces called components
 - e.g. Thumbnail, UserCard, Video, LikeButton
- Combine component into entire screens, pages, apps
- Special markup syntax: JSX
 - think of: HTML inside of JavaScript
 - with super powers
- Handles interactions and UI updates with ease
 - components receive data and return what should appear on the screen

Differences between HTML and JSX

className attribute

HTML

```
<div class="wrapper">
```

JSX

```
<div className="wrapper">
```


Explicitly self-closing tags

HTML

```

```

JSX

```

```

Single root element: React Fragment

HTML

```
<p> One </p>  
<p> Two </p>  
<p> Three </p>
```

JSX

```
<>  
  <p> One </p>  
  <p> Two </p>  
  <p> Three </p>  
</>
```

Developing Components

Lowercase

- `div`
- `ul`
- `header`
- `nav`
- ...

Components built into React

Create HTML elements on the page

Uppercase

- `App`
- `IconButton`
- `VideoPlayer`
- `MenuBar`
- ...

Components developed by us

Create structure for our React code