# 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
  - o can be used multiple times in different places
- Interface
  - o receive data or functionality via well defined concept



#### **EKENÄSET**

Armchair

€**229**,-







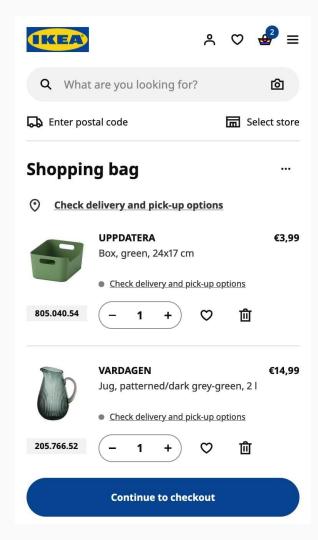
More options











# What is React?

### What is React?

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

# Differences between HTML and JSX

### className attribute

HTML JSX

<div class="wrapper">

<div className="wrapper">

## Explicitly self-closing tags

HTML JSX

```
<img src="..." alt="..." >
```

<img src="..." alt="..." />

## Single root element: React Fragment

### HTML

```
 One   Two   Three
```

### **JSX**

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

## **Developing Components**

#### Lowercase

- div
- u
- 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