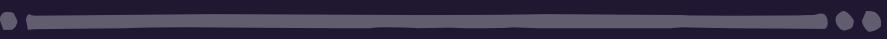


A dense, dark forest scene with sunlight filtering through the canopy.

React.js

Erik Wendel



2 år



SpareBank1 Mobilbank



~½ år med React

TVERRFAGLIGHET

⌚ 08:00 GARTNERS SYN PÅ VERDEN

⌚ 09:00 - 09:45

👤 Business Case

—
Oslo



👤 Dieter Rams: 10 Principles for
Good Design

—
Helsinki



👤 Tech-begreper for ikke-
teknologer

—
København



👤 Hvorfor er en grafdatabase så
utrolig nyttig?

—
Stockholm

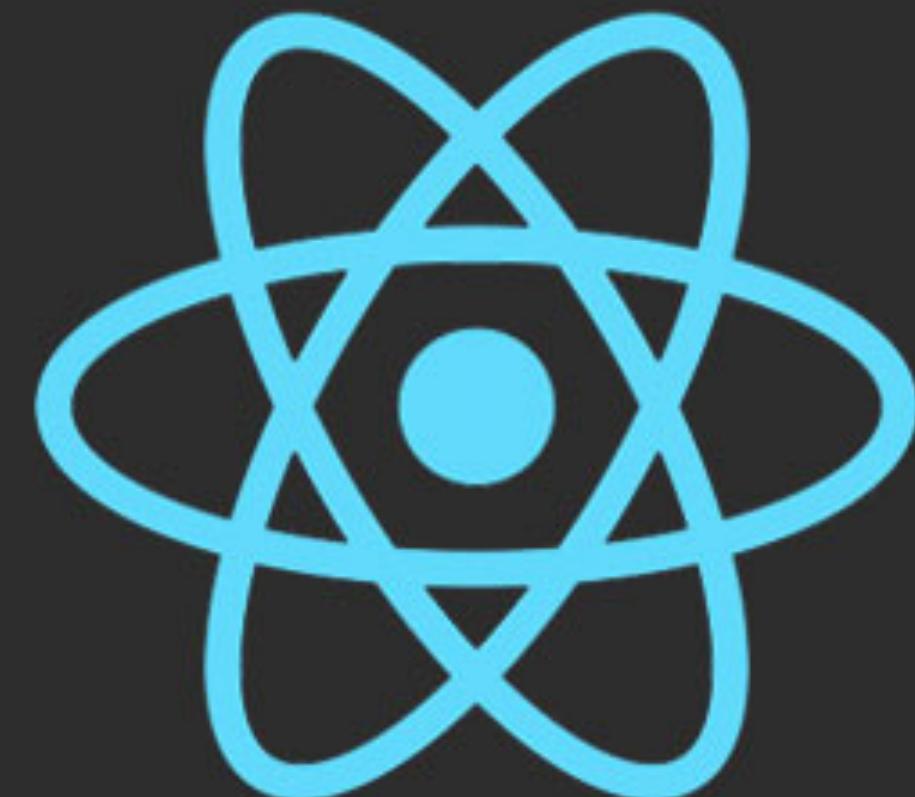


⌚ 10:00 - 10:45

👤 Topp 10 oppgaver til en
prosjektleder

—
Oslo





React

A sepia-toned photograph of a coastal landscape. In the foreground, there are dark, leafy bushes and trees. Beyond them is a body of water, possibly a lake or a wide river, with a distant shoreline featuring hills and some buildings. The sky is overcast with a warm, golden hue.

CoopHiring



cohesion

Hva gjør det vanskelig å
lage interaktive
grensesnitt?

A scenic landscape featuring rolling hills and mountains under a hazy, light-colored sky. The foreground is dominated by dark, rocky terrain and patches of dry grass. In the background, a prominent mountain peak rises, its slopes covered with dense vegetation. The overall atmosphere is serene and somewhat misty.

State

Backbone.js

finally some structure

todos

What needs to be done?

Double-click to edit a todo

Written by [Addy Osmani](#)

Part of [TodoMVC](#)

< Avbryt

Betale

Fra konto

9650 12 56924 BRUKSKONTO



Disponibelt beløp 3 228,11

Til konto



Forfallsdato

dd.mm.åååå



I dag

Beløp



KID-nummer

Melding

Oppgi KID-nummer

 Jeg ønsker kvitteringsoblat for betalingen**Godkjen betaling**

Avbryt

Hvordan kan vi gjøre dette enklere?

A wide-angle photograph of a tropical beach at dusk or dawn. The sky is filled with large, billowing clouds illuminated from below by the setting or rising sun, casting a warm orange and yellow glow across the scene. In the middle ground, a dense line of palm trees stands along the water's edge. The foreground is a sandy beach with gentle waves lapping at the shore.

Tove is bindinger



Toveisbindinger

polyfill for reaktiv
javascript/DOM

[Using \\$location](#)[Animations](#)[Bootstrap](#)[HTML Compiler](#)[Conceptual Overview](#)[Controllers](#)[Working With CSS](#)[Data Binding](#)[Dependency Injection](#)[Directives](#)[E2E Testing](#)[Expressions](#)[Filters](#)[Forms](#)[i18n and I10n](#)[Internet Explorer Compatibility](#)[Introduction](#)[Migrating from Previous Versions](#)[Modules](#)[Providers](#)[Scopes](#)[Services](#)[Templates](#)[Unit Testing](#)

Conceptual Overview

[Improve this doc](#)

This section briefly touches on all of the important parts of AngularJS using a simple example. For a more in-depth explanation, see the [tutorial](#).

Concept	Description
Template	HTML with additional markup
Directives	extend HTML with custom attributes and elements
Model	the data shown to the user in the view and with which the user interacts
Scope	context where the model is stored so that controllers, directives and expressions can access it
Expressions	access variables and functions from the scope
Compiler	parses the template and instantiates directives and expressions
Filter	formats the value of an expression for display to the user
View	what the user sees (the DOM)
Data Binding	sync data between the model and the view
Controller	the business logic behind views
Dependency Injection	Creates and wires objects and functions
Injector	dependency injection container
Module	a container for the different parts of an app including controllers, services, filters, directives which configures

```
var myApp = angular.module('myApp', []);
myApp.controller('MyCtrl', function($scope) {
  $scope.user = { username: 'jd', name: 'John Doe' };
});
myApp.directive('fbAvatar', function() {
  return {
    restrict: 'E',
    scope: { user: '=' },
    template: '<div><fb-pic user="user"></fb-pic>{{user.name}}</div>'
  };
});
myApp.directive('fbPic', function() {
  return {
    restrict: 'E',
    scope: { user: '=' },
    template: ''
  };
});
```

forenkling?

A close-up photograph of several US dollar bills, primarily \$20 bills, which have been cut and folded to form the shape of the state of Texas. The bills are stacked and layered, creating a textured, three-dimensional effect against a dark background.

La oss rykke tilbake til start

Enkelt



Deklarativt



Interaktive data



Komponenter som byggeklosser

The background of the image is a large, dimly lit industrial facility. It features a complex network of thick, grey pipes running across the ceiling and walls. In the foreground and middle ground, there are numerous large, cylindrical concrete structures, possibly molds or parts of machinery, stacked in rows. The lighting is dramatic, with strong highlights and deep shadows, creating a sense of depth and complexity.

Data → DOM



Ytelse?

Virtuel IDOM!

Virtuell DOM

1. Når noe kan ha endret seg, re-render alt til en ny virtuell dom-representasjon
2. Diff den forrige representasjonen med den nye
3. Oppdater kun det som har endret seg

render



diff



batch

Components

```
var Example = React.createClass({  
  render: function() {  
    return React.DOM.div(null, 'Hello World!');  
  }  
});  
  
React.renderComponent(Example(), document.getElementById('main'));
```

JSX

helt valgfritt

```
var Example = React.createClass({  
  render: function() {  
    return <div>  
      Hello World!  
    </div>  
  }  
});  
  
React.renderComponent(<Example/>, document.getElementById('main'));
```

```
$ npm install -g react-tools
```



```
$ jsx --watch src/ build/
```



```
browserify -t reactify main.js > bundle.js
```

Props & State

props = immutable



state = hell

```
/** @jsx React.DOM */

var LikeButton = React.createClass({
  getInitialState: function() {
    return {liked: false};
  },
  handleClick: function(event) {
    this.setState({liked: !this.state.liked});
  },
  render: function() {
    var text = this.state.liked ? 'like' : 'unlike';
    return (
      <p onClick={this.handleClick}>
        You {text} this. Click to toggle.
      </p>
    );
  }
});

React.renderComponent(
  <LikeButton />,
  document.getElementById('example')
);
```

Dataflyt

data nedover, events oppover

Dataflyt

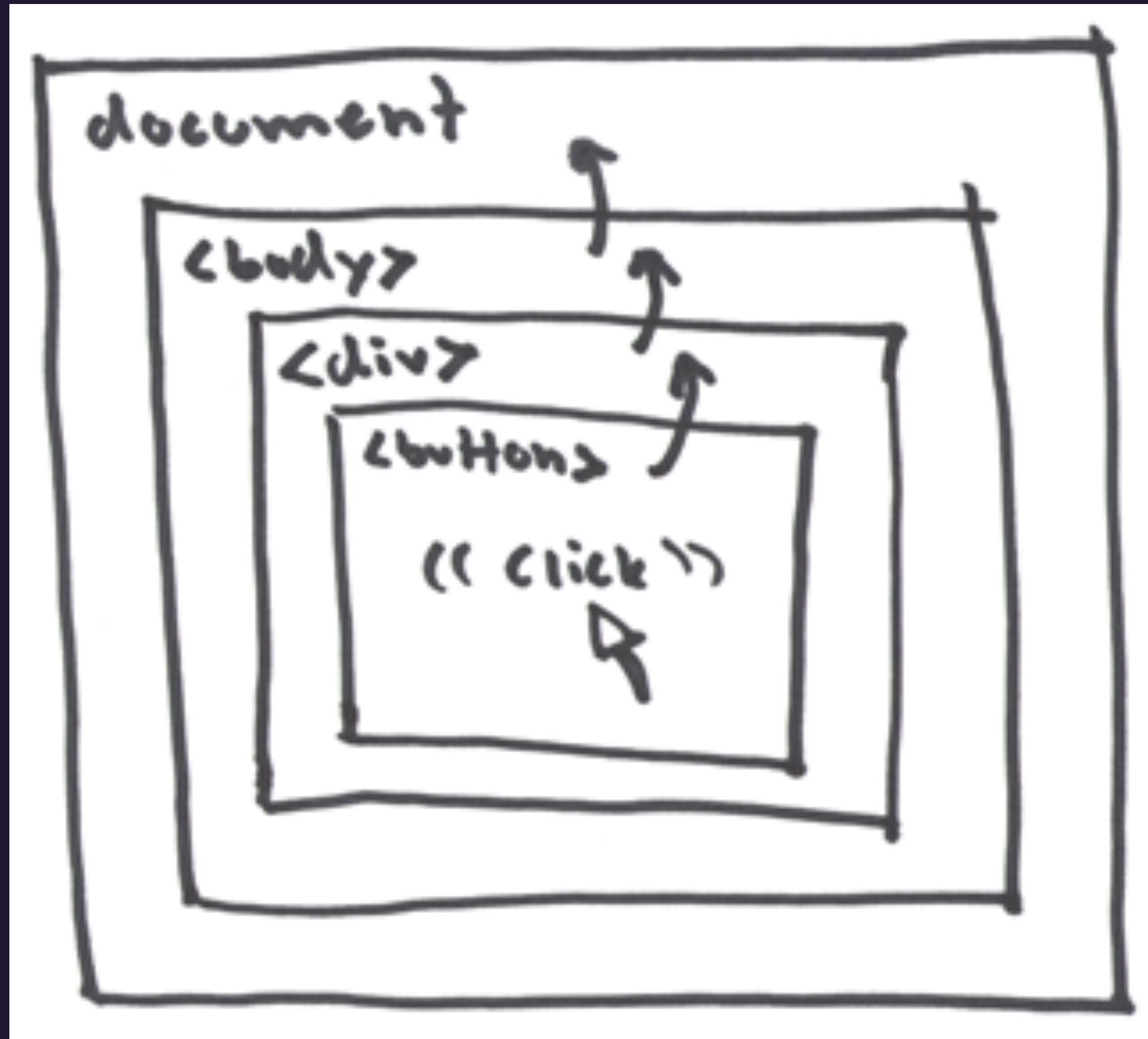
data nedover, events oppover



.. eventuelt pubsub



Eventdelegering



Gjenbruksbarhet

```
var CommentBox = React.createClass({  
  render: function() {  
    return (  
      <div className="commentBox">  
        <h1>Comments</h1>  
        <CommentList />  
        <CommentForm />  
      </div>  
    );  
  }  
});
```

Gjenbruksbarhet

```
var CommentList = React.createClass({  
  render: function() {  
    return (  
      <div className="commentList">  
        <Comment author="Pete Hunt">This is one comment</Comment>  
        <Comment author="Jordan Walker">This is *another* comment</Comment>  
      </div>  
    );  
  }  
});
```

Gjenbrukbarhet

```
var Comment = React.createClass({  
  render: function() {  
    return (  
      <div className="comment">  
        <h2 className="commentAuthor">  
          {this.props.author}  
        </h2>  
        {this.props.children}  
      </div>  
    );  
  }  
});
```

Lifecycle events:

```
function componentDidMount() {...}  
function componentWillMount() {...}  
function componentWillUnmount() {...}  
function componentWillUpdate() {...}  
function componentDidUpdate() {...}  
....
```

Lifecycle events

```
var Program = React.createClass({  
  componentDidMount: function() {  
    if (scroll.exists()) {  
      document.body.scrollTop = scroll.get();  
    }  
  },  
  ...  
})
```

Ytelse++

```
shouldComponentUpdate: function(nextProps, nextState) {  
  return nextProps.id !== this.props.id;  
}
```

Fleksibilitet

```
renderComponent( <Example/> , document.getElementById('main'));
```

Lett å bruke React på kun en del av appen

Integrasjoner

Backbone, Angular, +++

Backbone + React = <3

```
var MyView = Backbone.View.extend({  
  ...  
  render: function() {  
    React.renderComponent(<MyWidget/>, this.$el);  
    return this;  
  }  
  ...  
});  
  
new MyView().render();
```

Backbone + React = <3

```
function eventHandler() { ... }  
React.renderComponent(<MyWidget  
    customHandler={eventHandler} />,  
    document.body);
```

Backbone + React = <3

```
var DisplayView = React.createClass({
  componentDidMount: function() {
    this.props.model.on('change', function() {
      this.forceUpdate();
    }.bind(this));
  },
  render: function() {
  }
});
```

Server-side rendering

```
var app = express();

function index_html(req, res) {
  React.renderComponentToString(Timer(), function(markup) {
    res.send(markup);
  });
}

app.get('/', index_html);
```



FLUX

the MC in MVC

Erfaringer fra Fagdagsappen

A photograph of a dark road stretching into the distance through a field of tall, dry grass. The sky is filled with heavy, dark clouds, with some lighter areas suggesting a setting or rising sun. In the background, there are hills and a small building on the left side of the road.

Veien videre

Oppsummert

- utfordrer en del etablerte konvensjoner

Oppsummert

- utfordrer en del etablerte konvensjoner
- har helt drøy ytelse

Oppsummert

- utfordrer en del etablerte konvensjoner
- har helt drøy ytelse
- men hovedformålet er altså å forenkle

Oppsummert

- utfordrer en del etablerte konvensjoner
- har helt drøy ytelse
- men hovedformålet er altså å forenkle
- mindre omfang enn andre rammeverk - håndterer kun DOM

Oppsummert

- utfordrer en del etablerte konvensjoner
- har helt drøy ytelse
- men hovedformålet er altså å forenkle
- mindre omfang enn andre rammeverk - håndterer kun DOM
- leker godt med f.eks Backbone

A photograph of a dense tropical forest. Sunlight filters through the canopy of large trees, creating bright highlights on the leaves and branches. The overall atmosphere is lush and green.

Takk for meg!

@ewndl