

VueJS

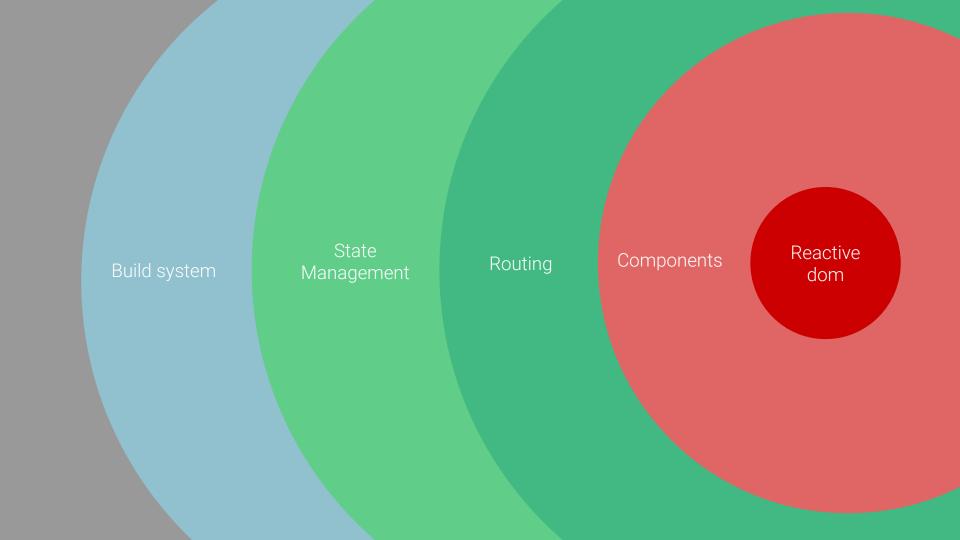


Lasse Fisker



- IKT from IHA
- Intern at IT-Minds
- Part time -> Full time
- Frontender
- User Experience

What are we going to talk about?



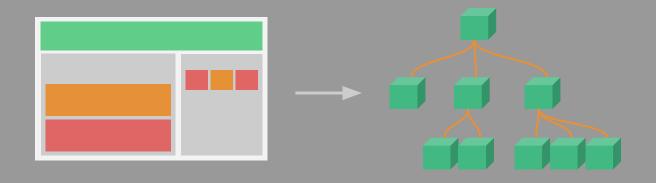
#### Reaktiv dom

- Virtuel dom
- Free choice in template lang
- All the directives you expect

```
<template>
         <script type="text/x-template" id="template">
           <div class="hello">
     <h1
             <h1>Hello!</h1>
   </div
 </temp
         </script>
<template lang="pug">
  .hello
                <template lang="pug">
    h1
                     include helloworld.pug
</templa
                </template>
 render: function (createElement) {
   return createElement()
 },
```

### Template syntax

## Components



#### Components

```
<template lang="pug">
import Vue, { ComponentOptions } from 'vue'
      import Vue from 'vue'
  onC import Component from 'vue-class-component'
      // The @Component decorator indicates the class is a Vue component
export @Component({
        // All component options are allowed in here
        template: '<button @click="onClick">Click!</button>'
      export default class MyComponent extends Vue {
        // Initial data can be declared as instance properties
        message: string = 'Hello!'
        // Component methods can be declared as instance methods
        onClick (): void {
           window.alert(this.message)
 // with the MyComponent type
 } as ComponentOptions<MyComponent>
```

- Single file components
- Script template styles
- One object
- Or as typescript
- With class decorator

#### Components

```
computed: {
    computedProp () {
        return this.message.split('').reverse().join[['']]
    }
},
```

```
computedProp: {
    get: function() {
        return this.msg.split('').reverse().join('')
    },
    set: function(newVal) {
        this.msg = newVal
    }
}
```

```
watch: {
    question: function (newQuestion) {
        // runs every time question changes
    }
},
```

- Computed properties
- Reactive
- Explicit setter
- Watch

### Komponenter

```
props: {
   parentMsg: String,
    required: true
  this.$emit('stuffHappened', {
   eventParam: 'Im a parameter!'
 <child
   :parentMsg="messageFromParent"
   v-on:stuffHappened="handleStuffHappened">
 </child>
methods: {
  whateverFunc (param) {
```

- Props from parent to child
- Emit from child to parent
- Methods component level functions

### Komponenter

```
<style>
/* global styles */
</style>

<style scoped>
/* local styles */
</style>
```

```
<style scoped>
.a >>> .b { /* ... */ }
</style>
```

- Styles optionally scoped
- CSS, SASS, SCSS, LESS, STYLUS
- Deep selector

### Routing

```
const routes = [{
    path: "/foo",
    component: Foo,
    name: 'namedRoute',
    children: [{ path: "/subfoo", component: bar }]
    }];
const router = new VueRouter({
    routes // shorthand for `routes: routes`
});
const app = new Vue({
    router
}).$mount("#app");
```

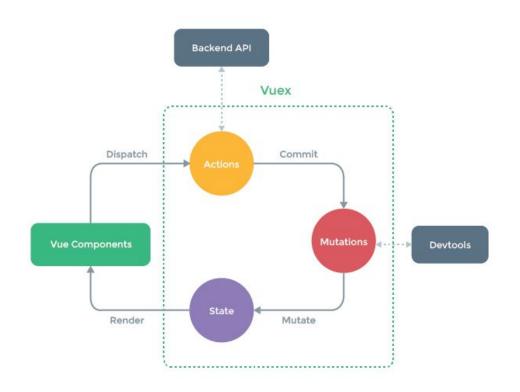
```
router.push('home')
router.push({ path: 'home' })
router.push({ name: 'user', params: { userId: 123 }})
router.push({ path: 'register', query: { plan: 'private' }})
```

- Emulate multipage in SPA
- Define routes
- Inject router
- Navigate to route

# State management

### State management Vuex

- Flux pattern
- Decoupled components
- Cleaner components
- Sane separation of concerns
- Time travel & debugging



#### Vuex

```
state: {
   someArray: [],
   someProp: {
    name: 'Hej!'
   }
},
```

```
mutations: {
    setSomeArray: (state, val) => state.someArray = val
},
```

```
getters: {
  getSomeArraySorted: (state, getters) =>
  [...state.someArray].sort((a, b) => a < b ? 1 : -1)
},</pre>
```

```
actions: {
  async doSlowStuff({commit}, {param1, param2}) {
    serverCall(param1, param2).then(res =>
        Promise.resolve(res.body))

  commit('setSomeArray', await serverCall)
  }
}
```

App State

Mutations

Getters

Actions

#### Vuex

```
toggleTodo() {
   this.$store.dispatch("toggleTodoAsync", this.todo);
}.
```

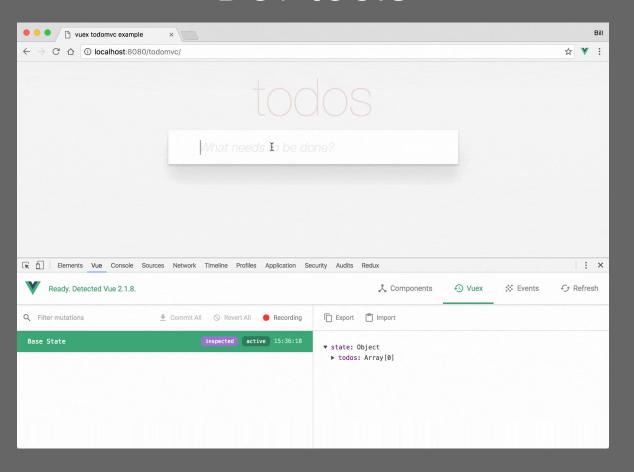
```
computed: {
  todos(): Todo[] {
    return this.$store.state.todos;
  }
},
```

Dispatch actions

Handle side effects

Read state

#### Dev tools



#### Build system

- Webpack support
- Testing
- IDE's
- AOT or run time compile
- CLI

#### CLI

lasses-MBP-2:Desktop lassefisker\$ vue create awesomeapp

- Project scaffolding
- Beta right now after major upgrade
- Zero config
- No lock in configs can be added at any time

# Lets code!



# Questions?



# Interested?

https://it-minds.dk/karriere/stillinger/

