

Test-Driven Development with Vue.js

Vue.js Amsterdam 2020



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Testing is one of the
pillars of writing robust
software.



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Tests should give you
confidence that you aren't
shipping broken software.



But testing can be tough.

Especially with UI components.



```
v-for="(mode, index) in colorModes"
  class="color-mode"
  :class="[ { active: index === activeMode }, `color-mode-${mode}` ]"
  @click="activeMode = index"
>
  {{ mode }}
</button>
</div>
<div class="color-code">{{ activeCode }}</div>
</div>
</template>
```

```
<script>
import { rgb, hex, hsl, isLight } from "@/utils/color";
import CheckIcon from "@/assets/check.svg";
```

```
const modes = { rgb, hex, hsl };
```

```
export default {
  components: { CheckIcon },
  props: {
    swatches: {
```

HTML?

CSS classes?

Computed properties?

100% coverage?

View logic?

Lifecycle steps?

Unit? Integration? E2E?

Methods?

Event handlers?

I'LL DO IT LATER



I'LL DO IT LATER
~~LATER~~
NEVER!



#YOLO



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Test-Driven Development

Popularized by Kent Beck



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Red



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Green



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Refactor

TDD



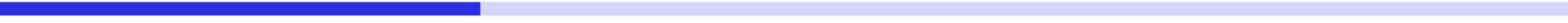
Vue



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7.5 MB





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```
const files = [
  {
    name: "Document.pdf",
    size: 320
  },
  {
    name: "Document_2.pdf",
    size: 430
  }
];
```

Uploading 2 files

0.00075 MB



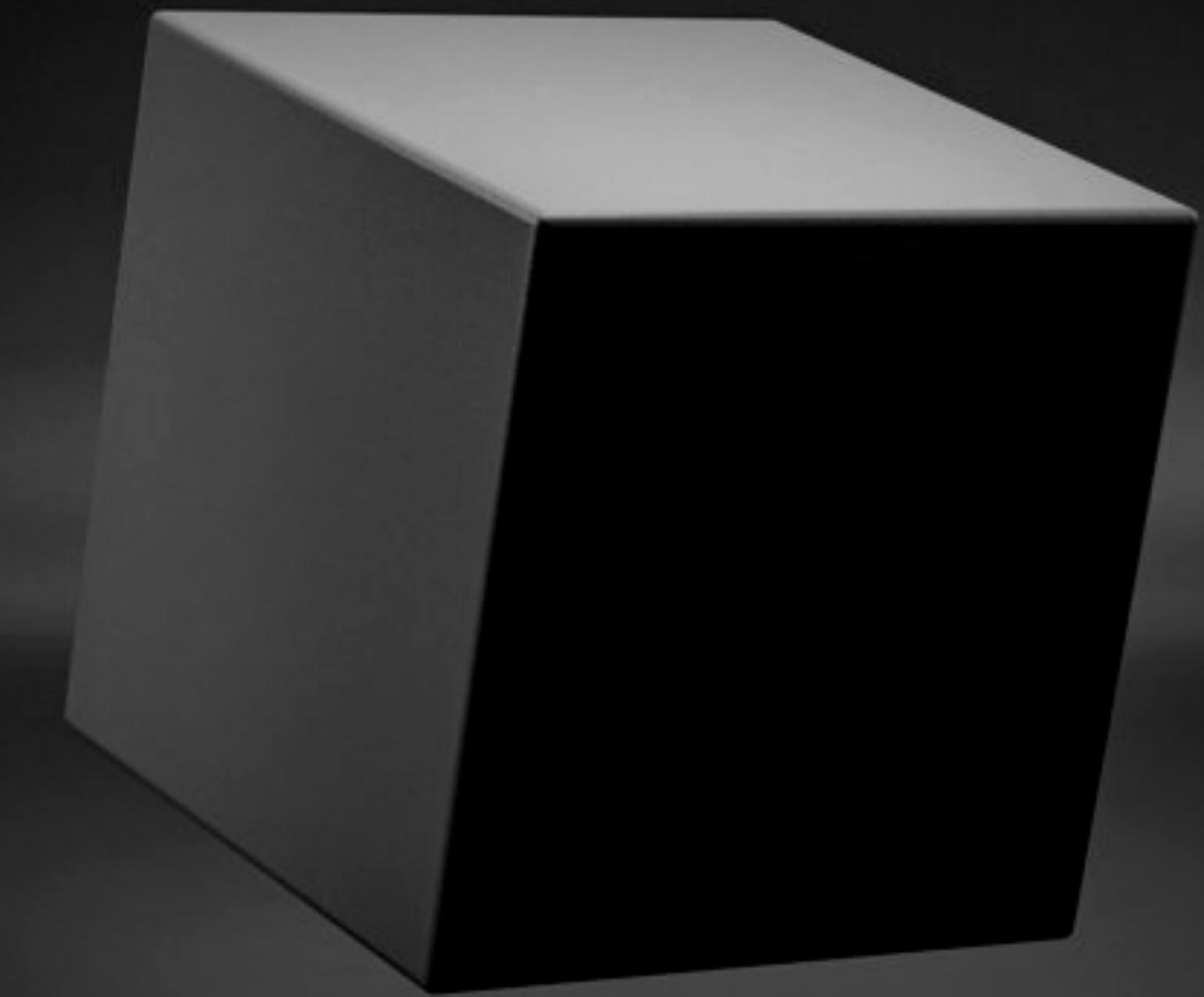
Fixing issues with TDD





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Black box testing



Assert only the public interface.

A bronze sculpture of "The Thinker" by Auguste Rodin, showing a man in a crouched pose, lost in deep thought, resting his chin on his hand. He is positioned on the left side of the frame, set against a background of dark blue and teal diagonal stripes.

Do I care about this
if it changes?



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TDD helps you write
robust tests, not too many
and not too few.



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TDD encourages refactors,
which leads to
better software design.



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Fixing bugs is
far more costly
than preventing them.



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The time it takes
is worth it.



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**JUST
DO IT!**



Thank you !



bit.ly/tdd-vuejs-amsterdam