

A photograph of a two-lane road curving through a landscape. In the foreground, the dark asphalt of the road is marked with white dashed lines. The road is flanked by rows of tall palm trees. In the background, a range of mountains is visible under a sky filled with large, soft, white clouds against a deep purple sunset.

**HOW REACT
CHANGED
EVERYTHING**

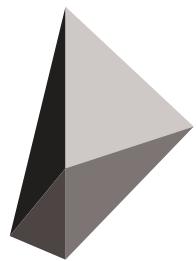


HI I'M KEN



KEN_WHEELER

ON TWITTER



Formidable

@formidablelabs

The background features a vibrant sunset or sunrise over a body of water. A large, bright yellow sun is positioned in the upper center, casting a warm glow. Below it, the sky is filled with horizontal bands of pink, orange, and yellow, transitioning into a darker blue and purple at the bottom. The water in the foreground is a dark blue, with some lighter reflections from the setting sun.

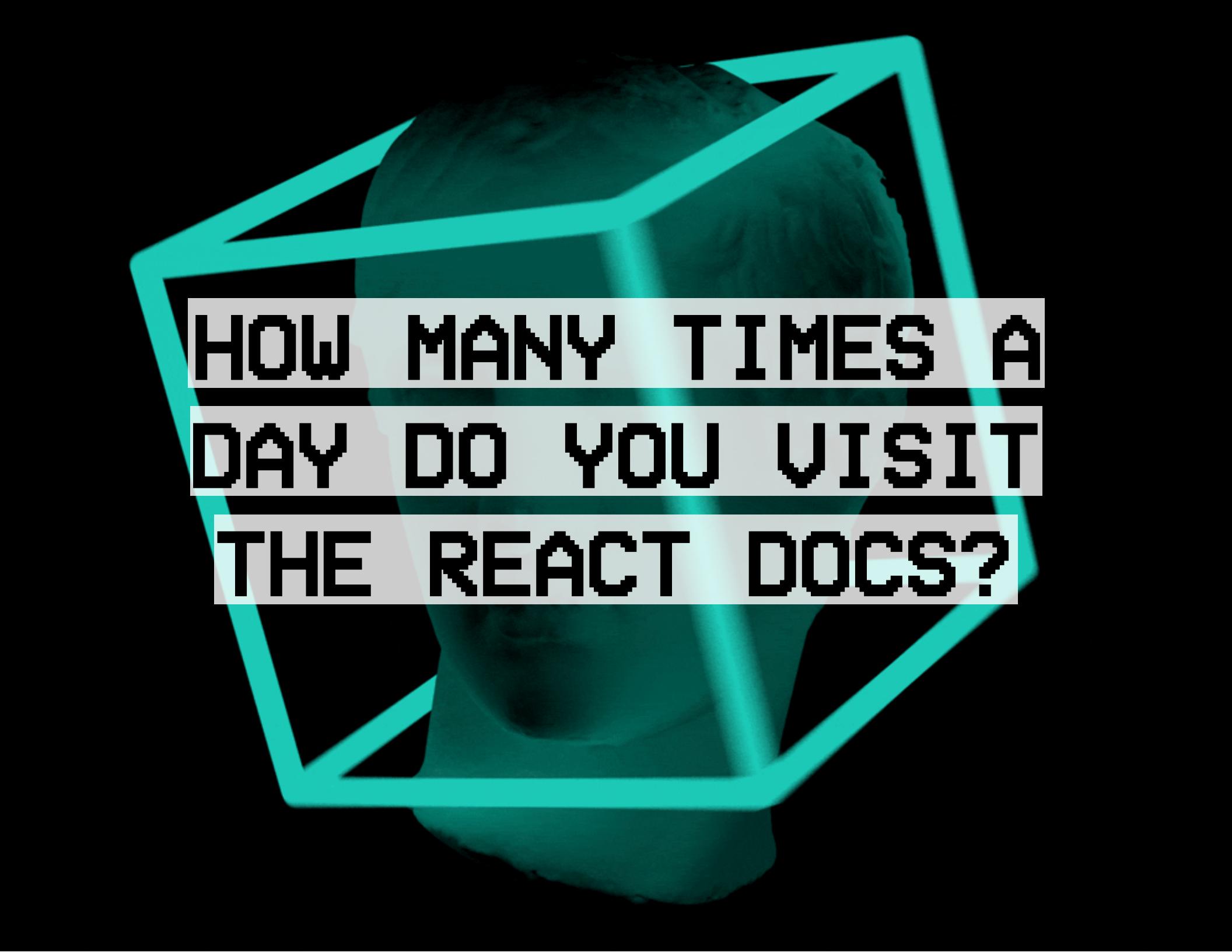
**REACT CHANGED
EVERYTHING**

**WHEN'S THE LAST
TIME YOU...**

**Used .addEventListener, not on
the window?**

Used .innerHTML?

**Worried about keeping your UI in
sync?**



**HOW MANY TIMES A
DAY DO YOU VISIT
THE REACT DOCS?**

**LETS GO BACK IN
TIME**

Featured Areas

Click the buttons below to view our featured sections!

Hercules

McDonald's Japan

McWorld
HeY, iT CouLD HaPPeN

Welcome to the McDonald's Official Web Site



Featured Areas

Click the buttons

Welcome to the McDonald's Official Web Site

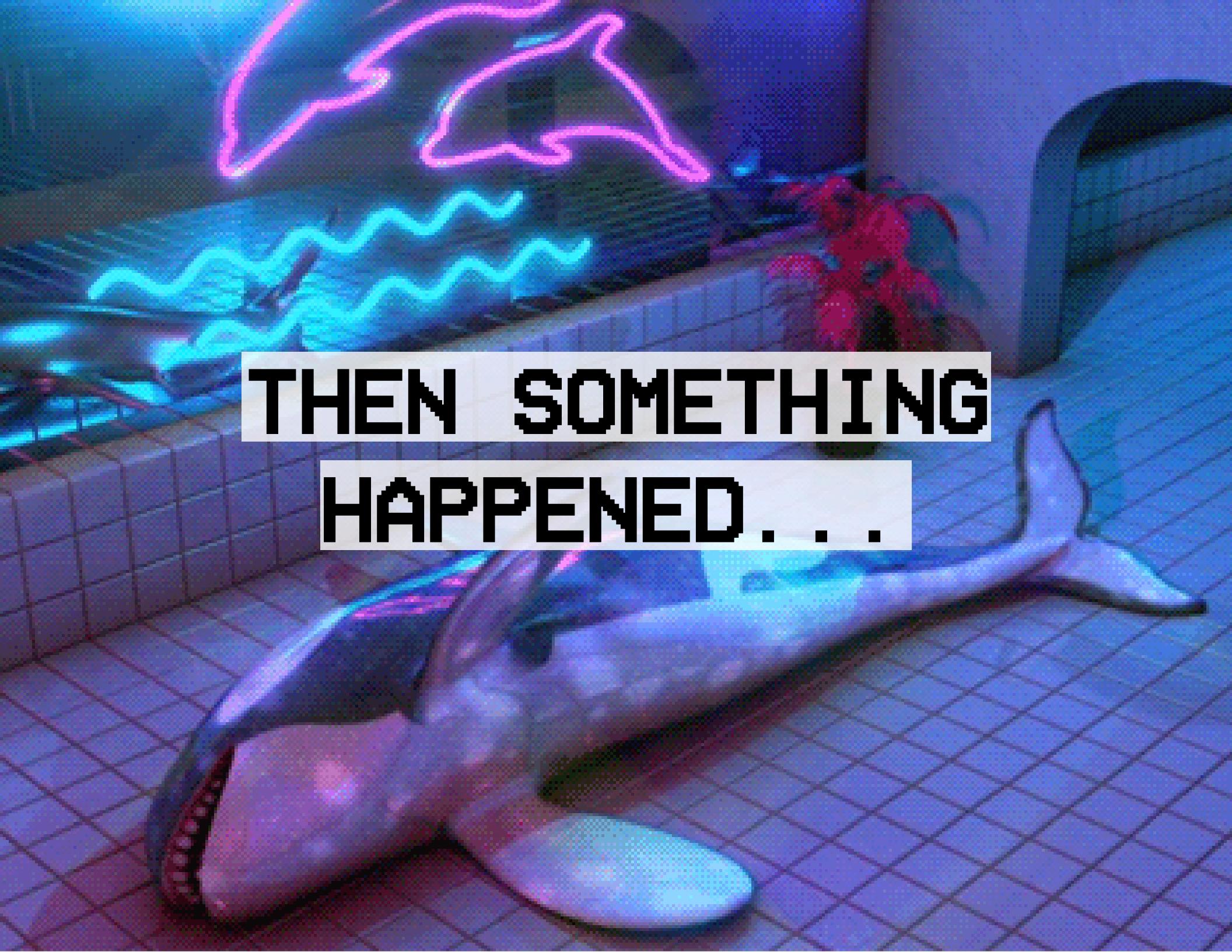
90's

Most sites were all HTML, table based

Server driven forms/applications

Javascript was for hovers

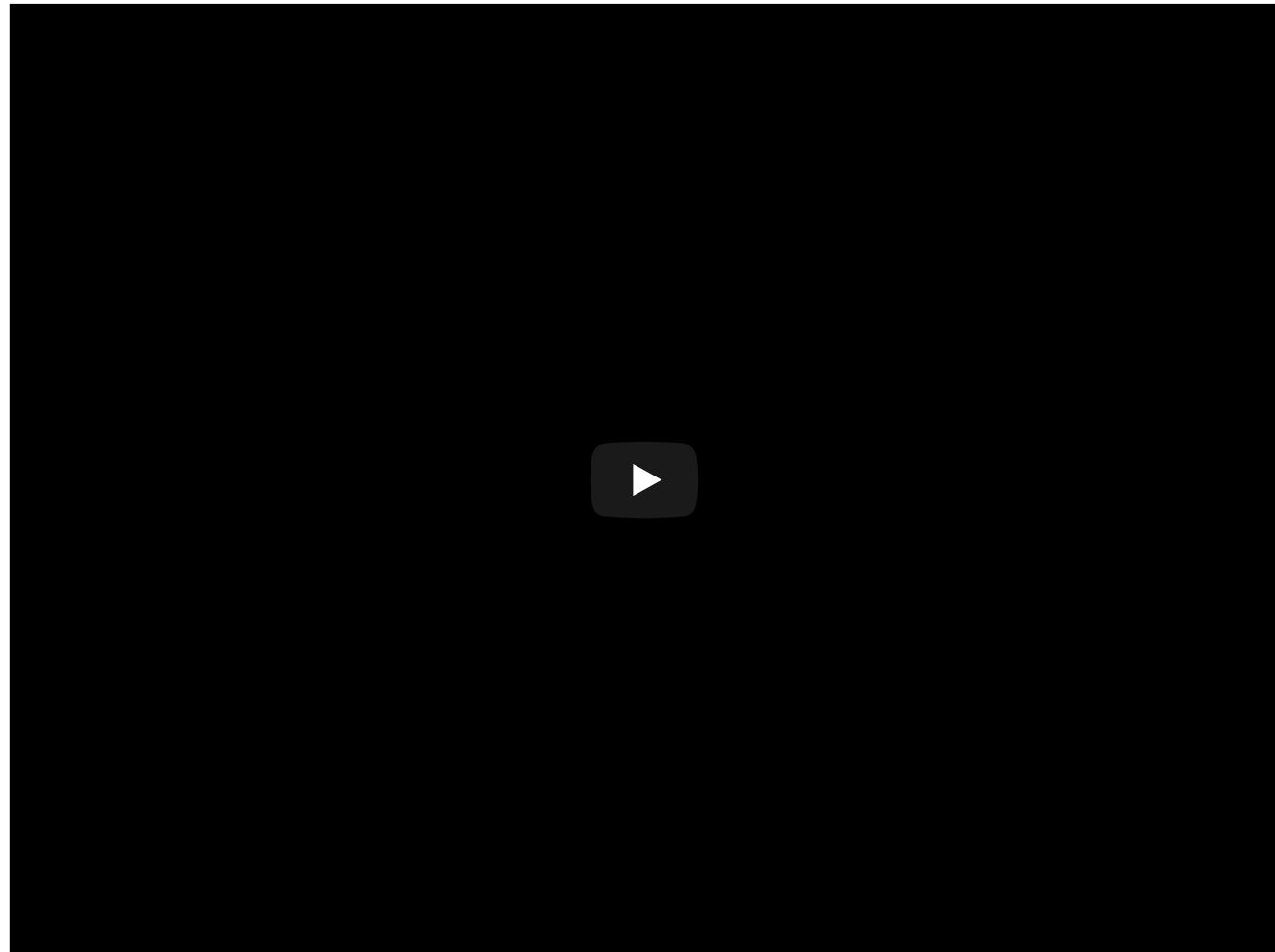
Design was not yet invented



**THEN SOMETHING
HAPPENED. . .**

FI

FLASHERA



FLASH

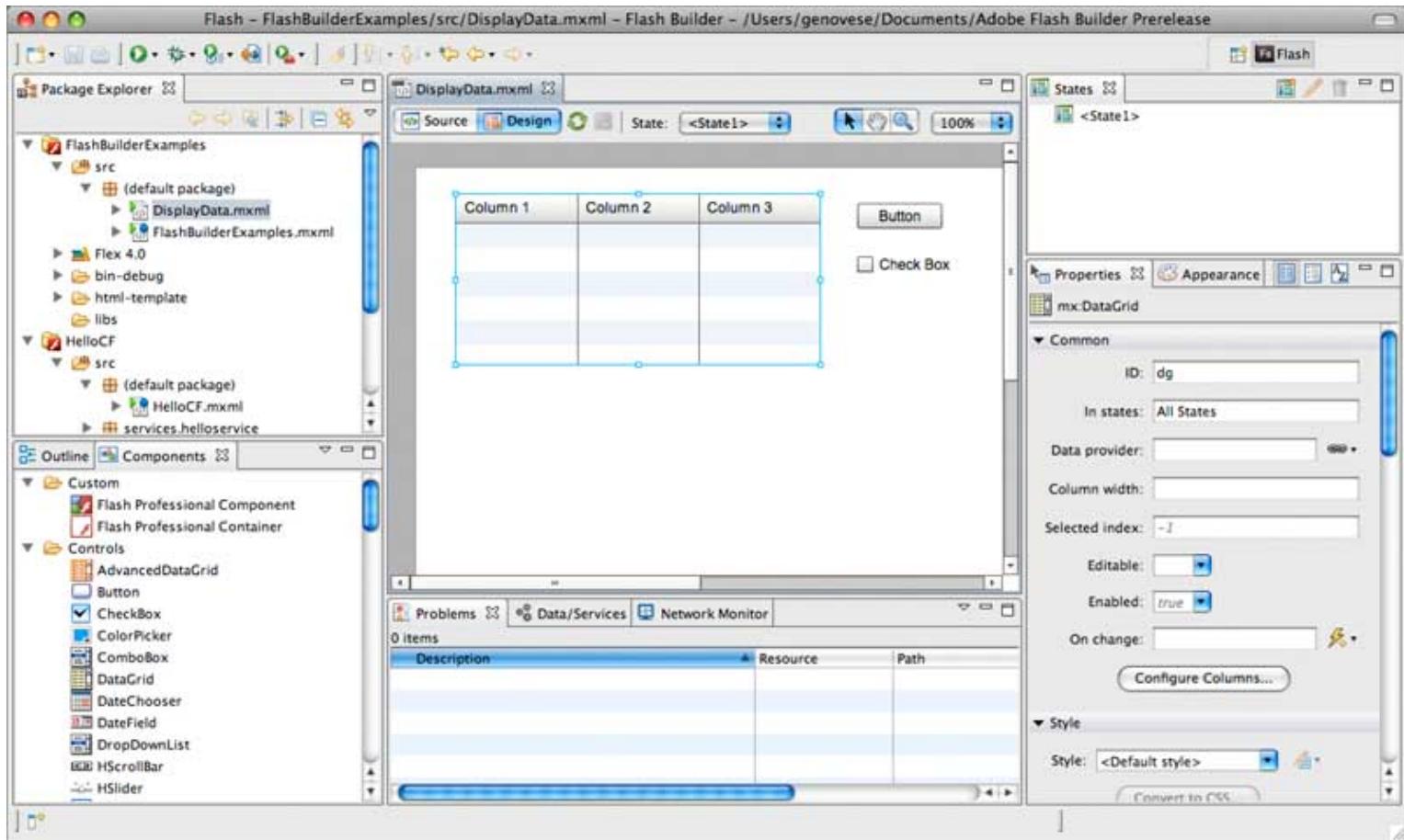
So many loading spinners

Timeline animation and
Actionscript

Video Game looking websites

Rich UIs and Applications

Flex Builder, MXML



ActionScript 1.0 & 2.0

- Global Functions
- ActionScript 2.0 Classe
- Global Properties
- Operators
- Statements
- Compiler Directives
- Constants
- Types
- Deprecated
- Data Components
- Components
- Screens
- Index

Code Snippets

```
1 on (release){  
2     getURL("http://www.dougplusrox.com/about.html","_blank");  
3 }  
4  
5
```

Current Selection

- home

Scene 1

- home

Symbol Definition(s)

home

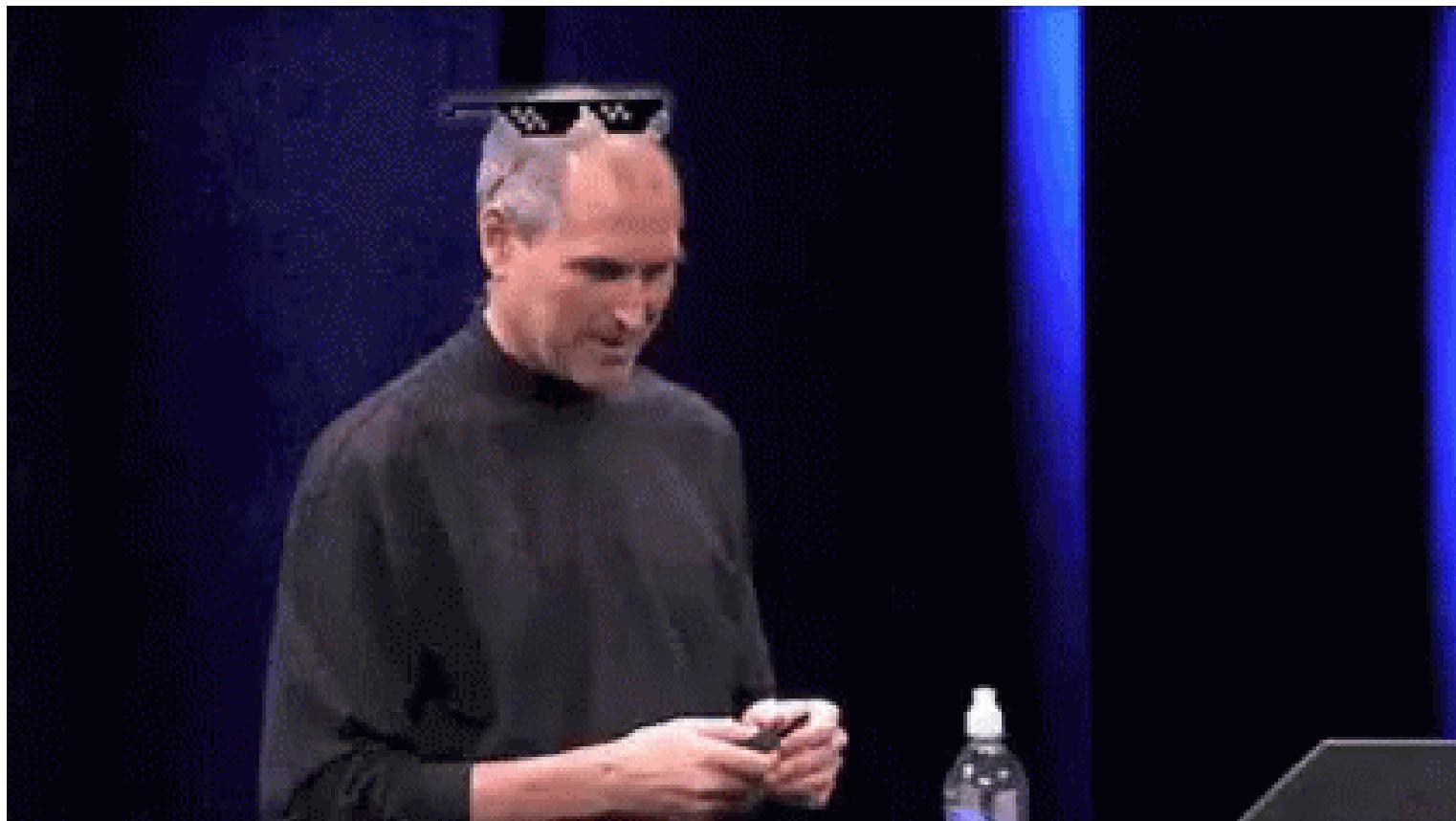
Line 2 of 5, Col 59



A landscape photograph showing a road curving through a dense forest of tall evergreen trees under a clear blue sky. A large, semi-transparent white rectangular box is centered over the middle of the road, containing the text "SO WHAT HAPPENED?" in a bold, black, sans-serif font.

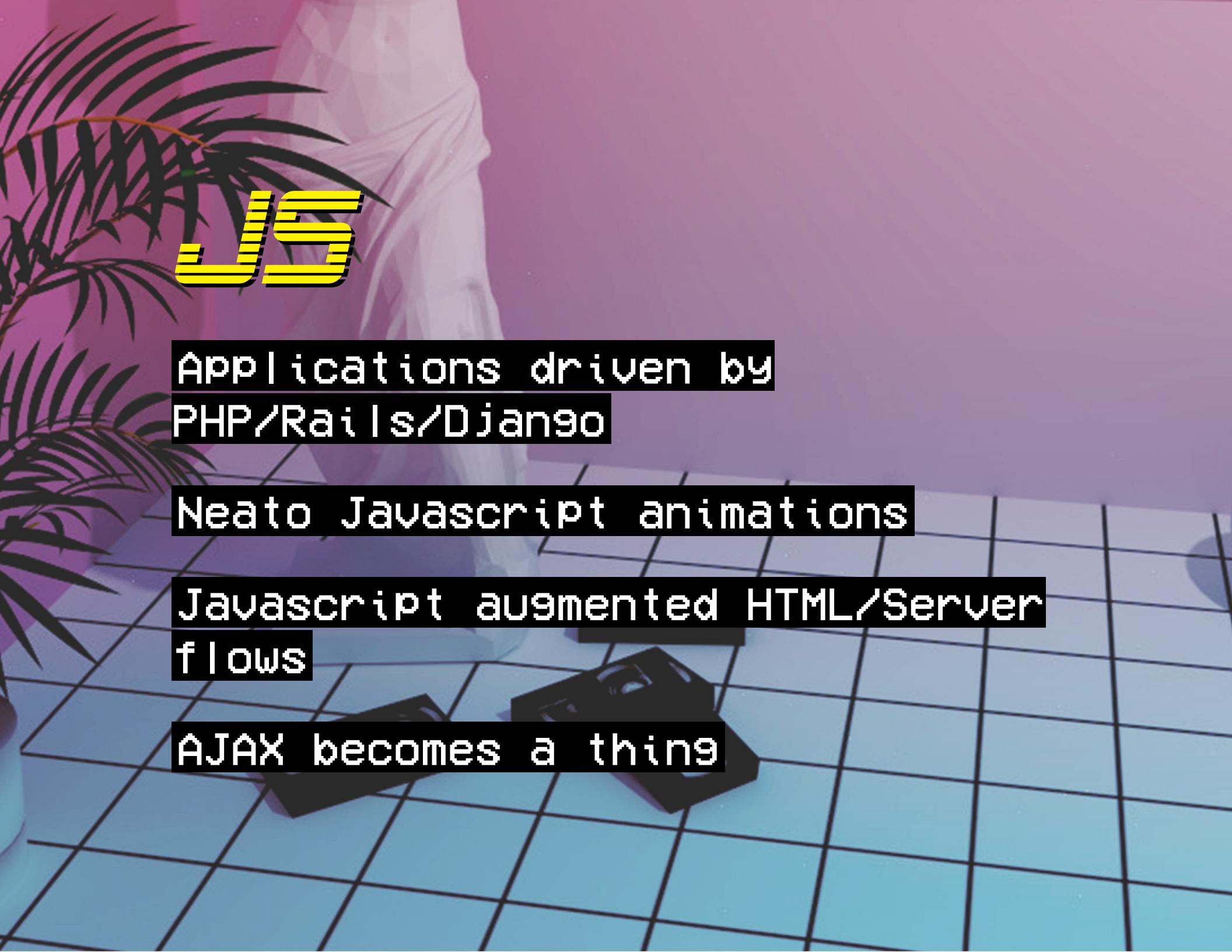
**SO WHAT
HAPPENED?**





BACK TO JS





JS

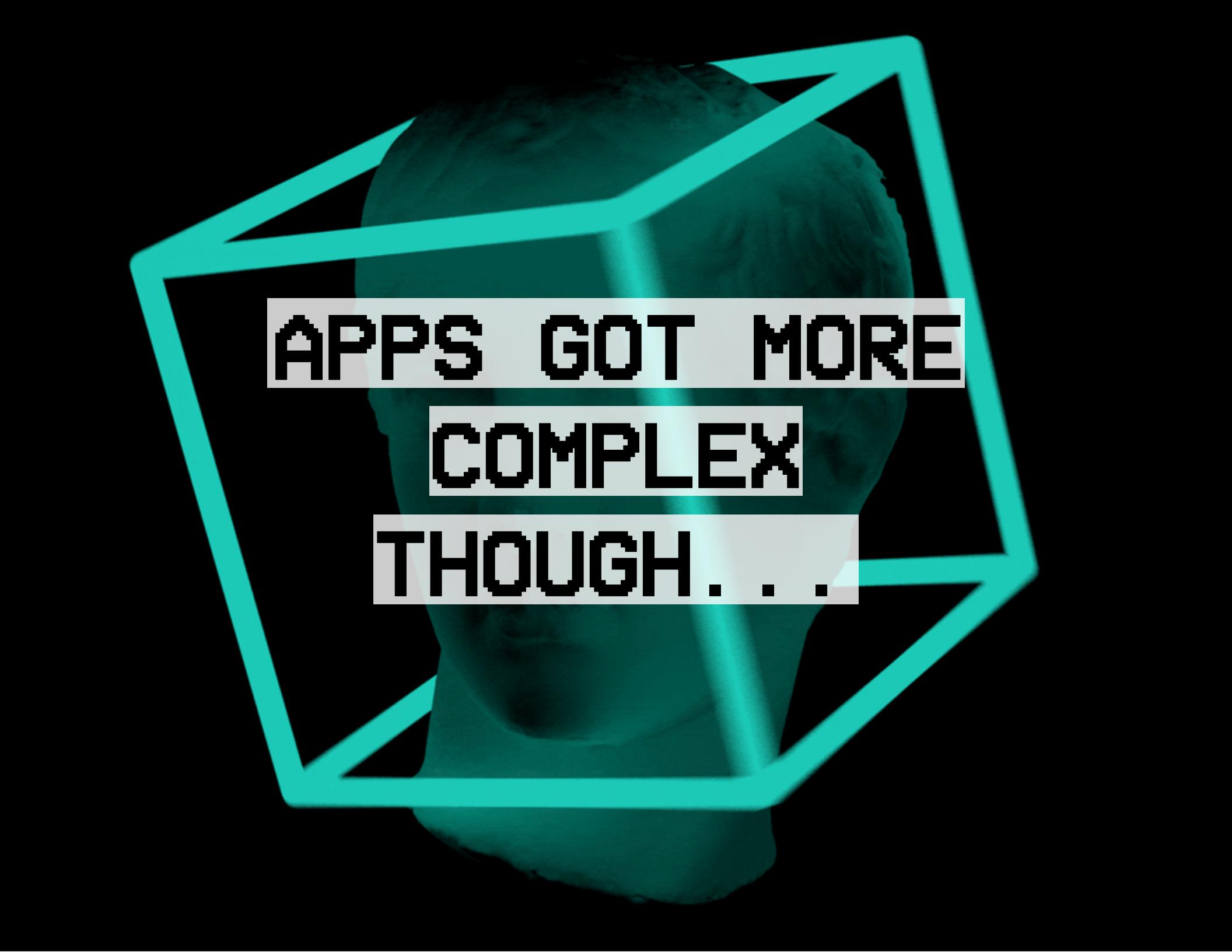
**Applications driven by
PHP/Rails/Django**

Neato Javascript animations

**Javascript augmented HTML/Server
flows**

AJAX becomes a thing

```
(function (d) {
  $(d).ready(function() {
    $('.my-button').on('click', function() {
      $.getJSON('/my/endpoint/', function(jd) {
        $('.content').html('<p>' + jd.name + '</p>')
      });
    });
  });
}) (document)
```

A person wearing a VR headset is looking at a large screen displaying a 3D wireframe model of a human head. The screen is framed by a thick red border. The background is dark.

**APPS GOT MORE
COMPLEX
THOUGH . . .**

A close-up photograph of a bowl filled with spaghetti coated in a rich, red meat sauce. A silver fork is stuck diagonally into the pasta. A sprig of fresh green parsley sits atop the dish. The bowl is set against a light-colored background.

AND OUR JS
TURNED INTO
SGHETTI

WE NEEDED
STRUCTURE



MVC狼



BACKBONE.JS

BACKBONE

SINGLE PAGE APPS

**Models, Views, Controllers,
Routers oh my!**

On the client side

DeSpaghettified

```
var SearchView = Backbone.View.extend({
  initialize: function(){
    this.render();
  },
  render: function(){
    var template = _.template($("#search_template").html());
    this.$el.html(template);
  },
  events: {
    "click input[type=button]": "doSearch"
  },
  doSearch: function() {
    //...
  }
});

new SearchView({el: $("#search_container")});
```



AM 07:07:33

THINGS WERE
STILL PRETTY
MANUAL THOUGH. . .



```
<!doctype html>
<html ng-app>
  <body>
    <div>
      <label>Name:</label>
      <input type="text" ng-model="yourName"
placeholder="Enter a name here">
      <hr>
      <h1>Hello {{yourName}}!</h1>
    </div>
  </body>
</html>
```

ANGULARJS

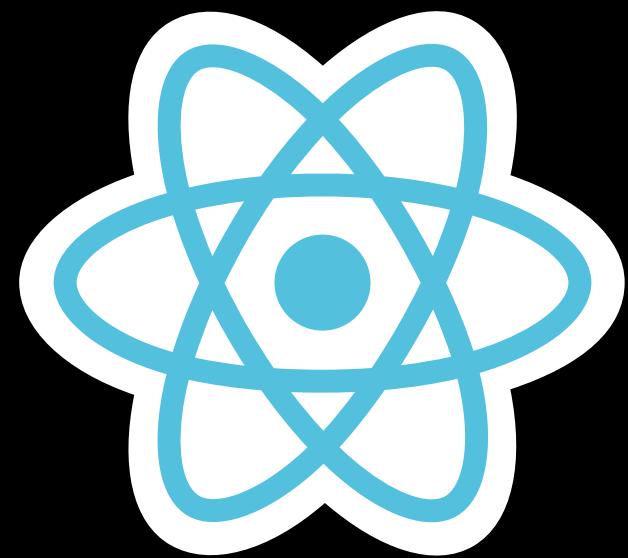
Two way binding

Very HTML centric

Extends Your HTML

Live templating aka magic 😂

Framework, not a library





A landscape photograph showing a dense forest with tall evergreen trees. A dirt path or stream bed leads from the foreground into the distance, where a bright, overexposed area suggests a body of water or a clearing. The overall color palette is dominated by shades of green and blue.

"JUST A VIEW
LAYER, NO
BIGGIE"

A close-up photograph of a man with dark hair and glasses, wearing a light-colored button-down shirt. He has a shocked or surprised expression, with wide eyes and a slightly open mouth. The background is blurred, suggesting an office environment.

JSX LOOKED GROSS

REACT

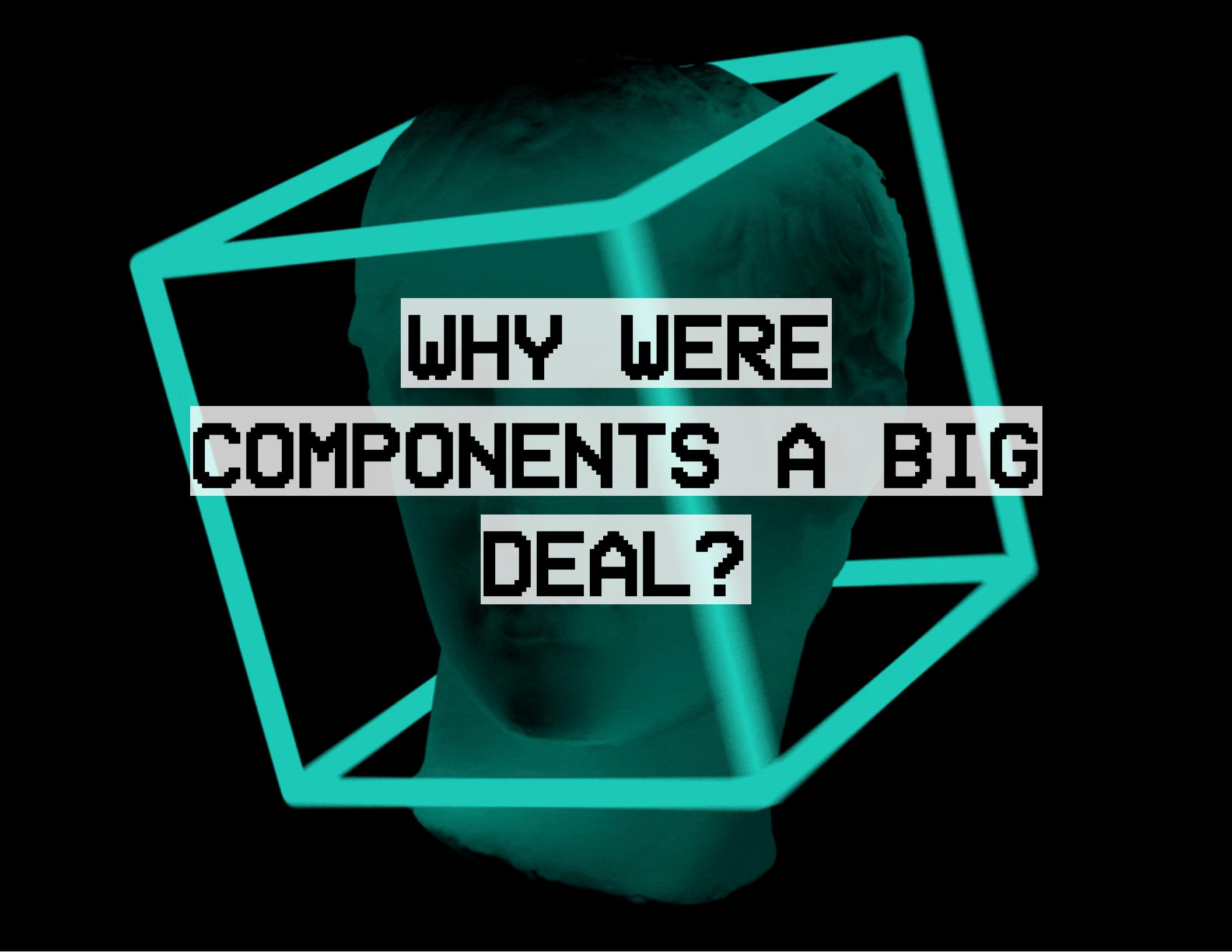
"Just a view layer"

JSX

State, Props

Virtual DOM

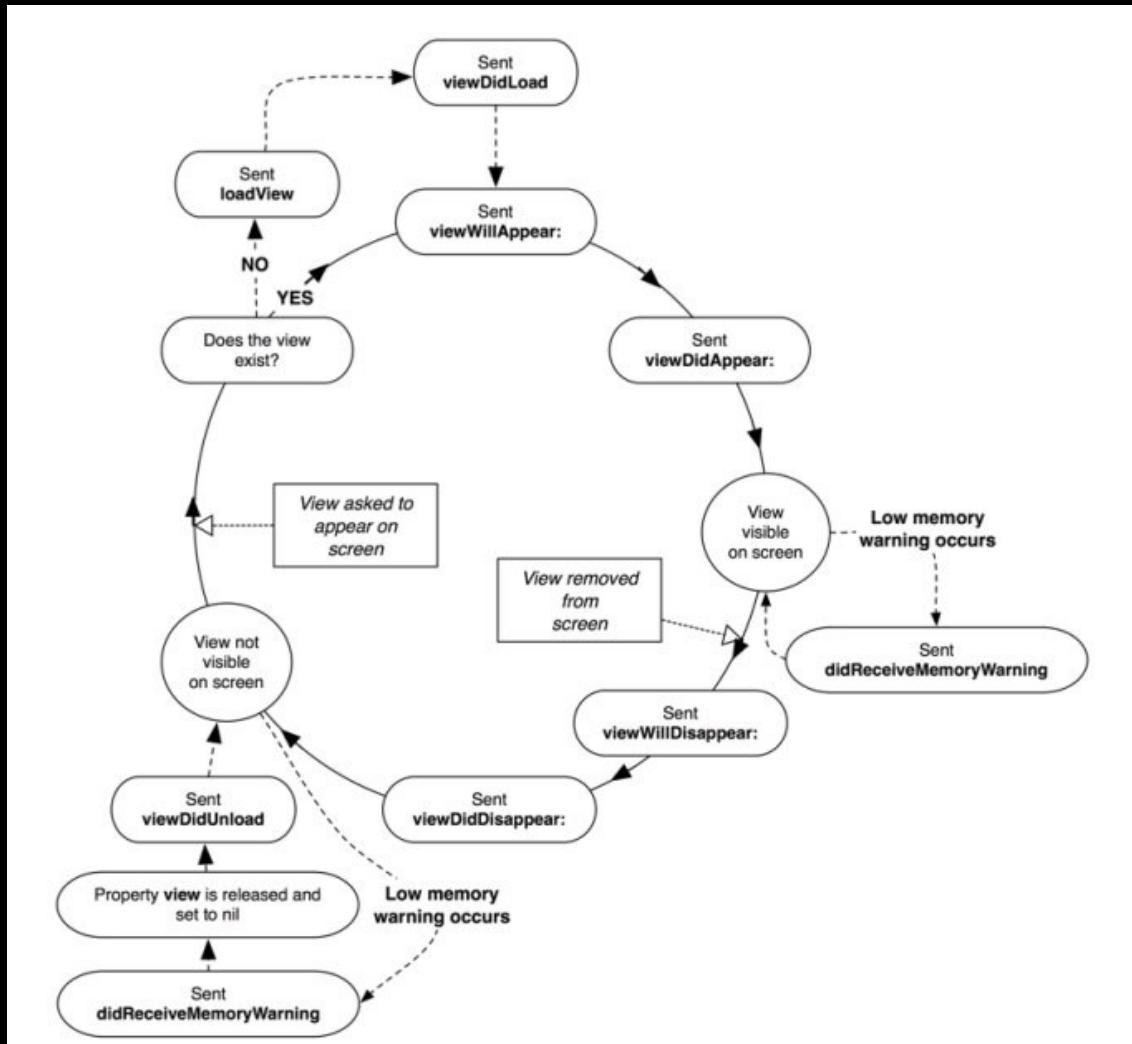
COMPONENTS

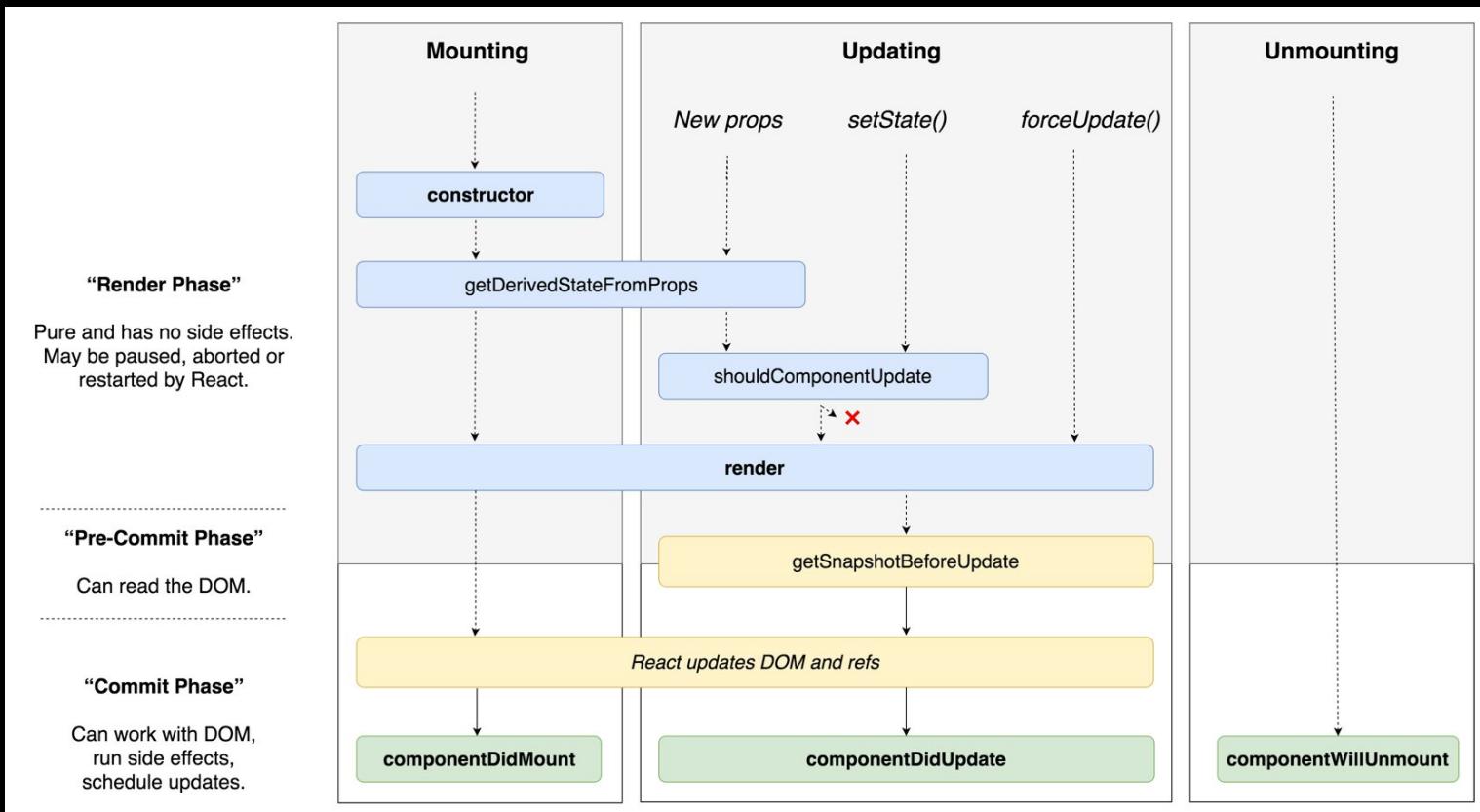


**WHY WERE
COMPONENTS A BIG
DEAL?**

**UP TO THIS
POINT, LIBRARIES
WERE HTML FIRST**

**REACT FEELS LIKE
REAL APP
DEVELOPMENT**







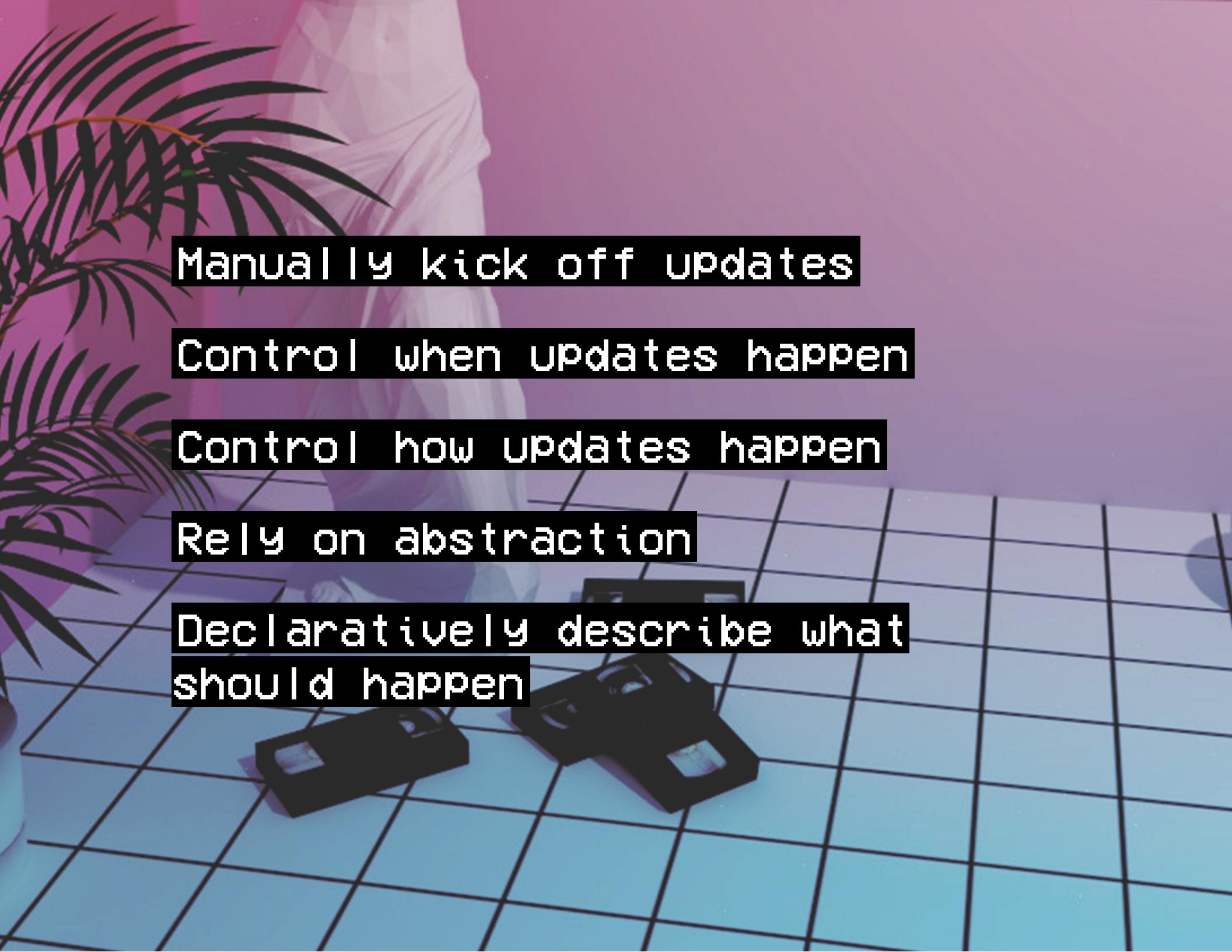
**BUT THERE'S
MORE . . .**

A woman with dark, curly hair is shown from the chest up. She has a weary or annoyed expression, with her eyes half-closed and a slight frown. She is wearing a light-colored, possibly white, off-the-shoulder top. Her right hand is raised to her face, with her fingers resting near her eye. In her left hand, she holds a thin, silver-colored wand with a small, glowing orb at the tip. The background is a warm, orange-toned gradient.

NO MAGIC

NBC

SNL | hulu



Manually kick off updates

Control when updates happen

Control how updates happen

Rely on abstraction

Declaratively describe what
should happen

**IN REACT, YOU
DON'T UPDATE
YOUR VIEWS**

**YOU DESCRIBE HOW
YOUR VIEWS
SHOULD HANDLE
UPDATES**



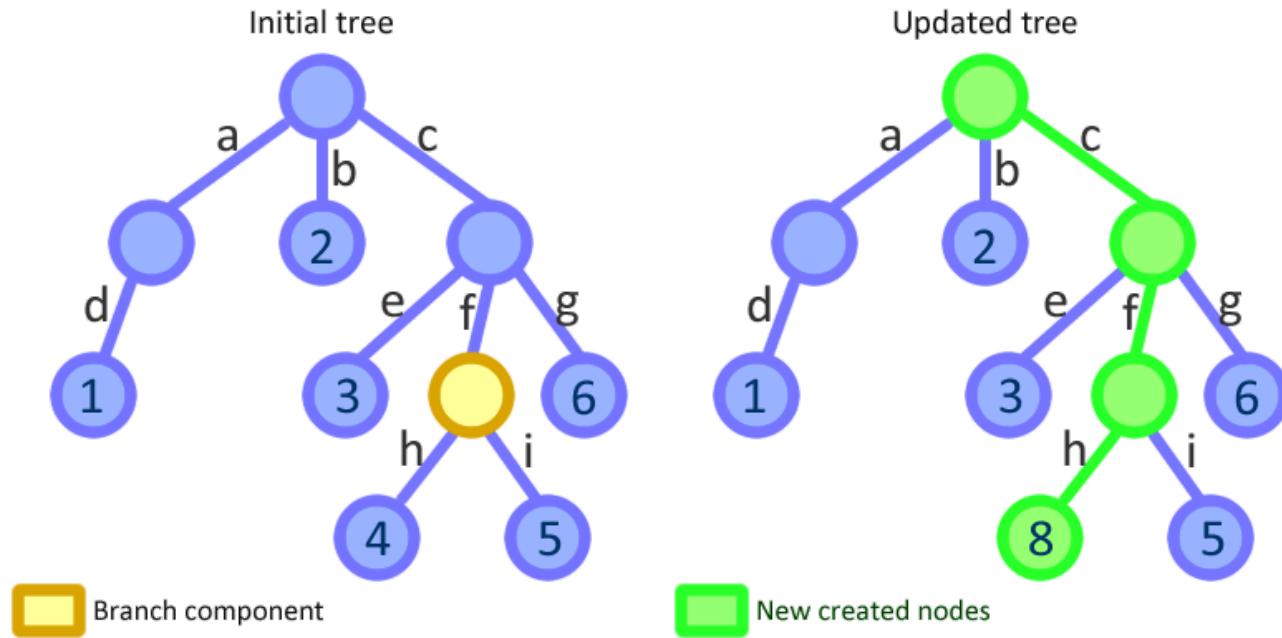


gifbin.com

UI = F(S)



**REACT IS THE
PERFECT
ABSTRACTION**





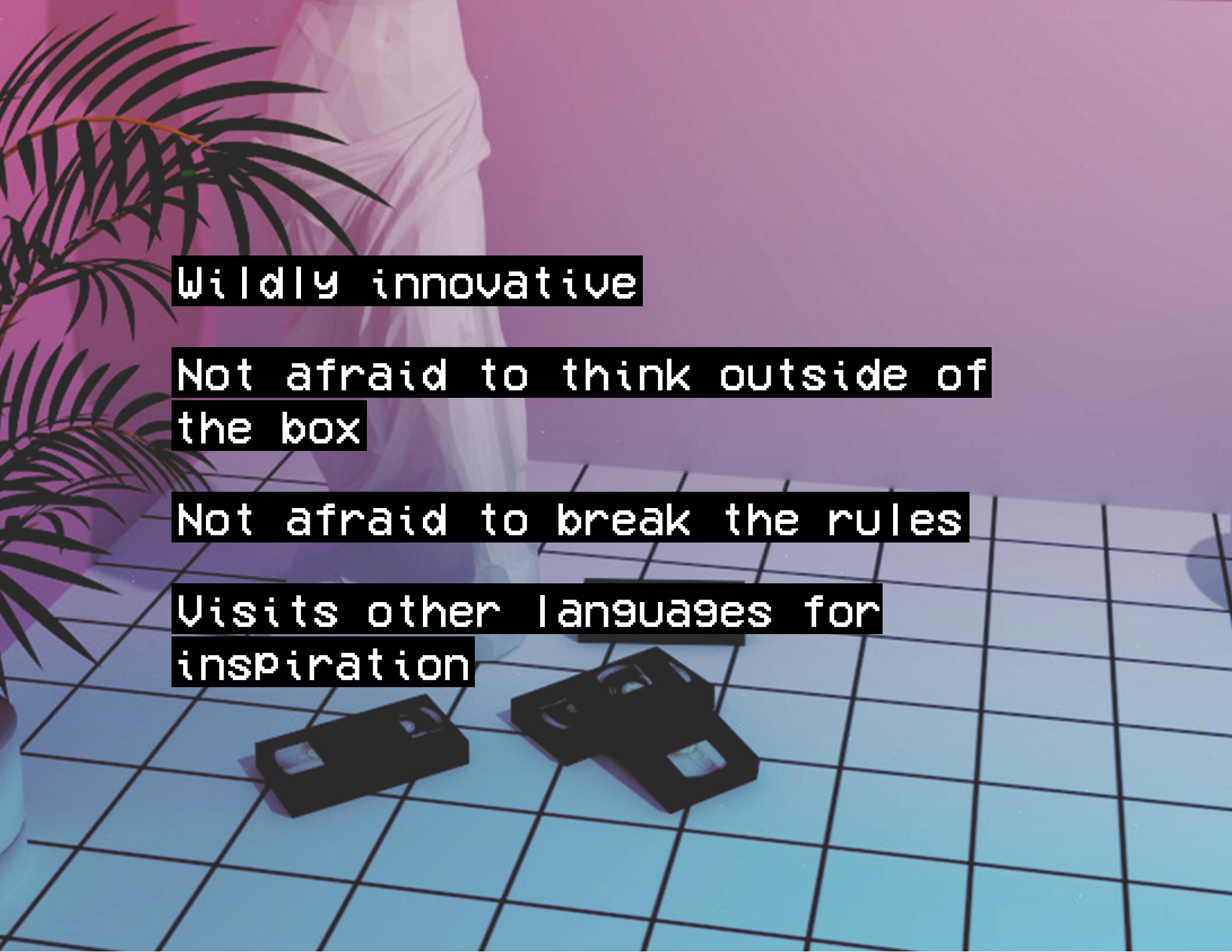


A close-up photograph of a person's face in profile, facing right. The person has dark hair and is wearing a light-colored shirt. Their expression is contemplative, with their eyes closed and a slight smile. The background is blurred, showing what appears to be foliage or a garden.

**THE BEST PART
ABOUT REACT
IS...**



THE COMMUNITY

A woman in a pink dress stands behind a light blue grid floor. Two black VHS tapes are placed on the floor in front of her. The background is a soft-focus image of tropical leaves.

Wildly innovative

**Not afraid to think outside of
the box**

Not afraid to break the rules

**Visits other languages for
inspiration**

**SO WHERE ARE WE
GOING FROM HERE?**



**FUTURE OF
REACTOR**

A landscape photograph of a road through palm trees and mountains at sunset. The sky is a vibrant purple and pink, with silhouettes of palm trees and distant mountains. A two-lane road with white dashed lines curves from the foreground towards the horizon.

ASYNC

A photograph of a woman in a white, flowing dress standing behind a light blue grid floor. Three black VHS tapes are scattered on the floor in front of her. The background is a solid pink color.

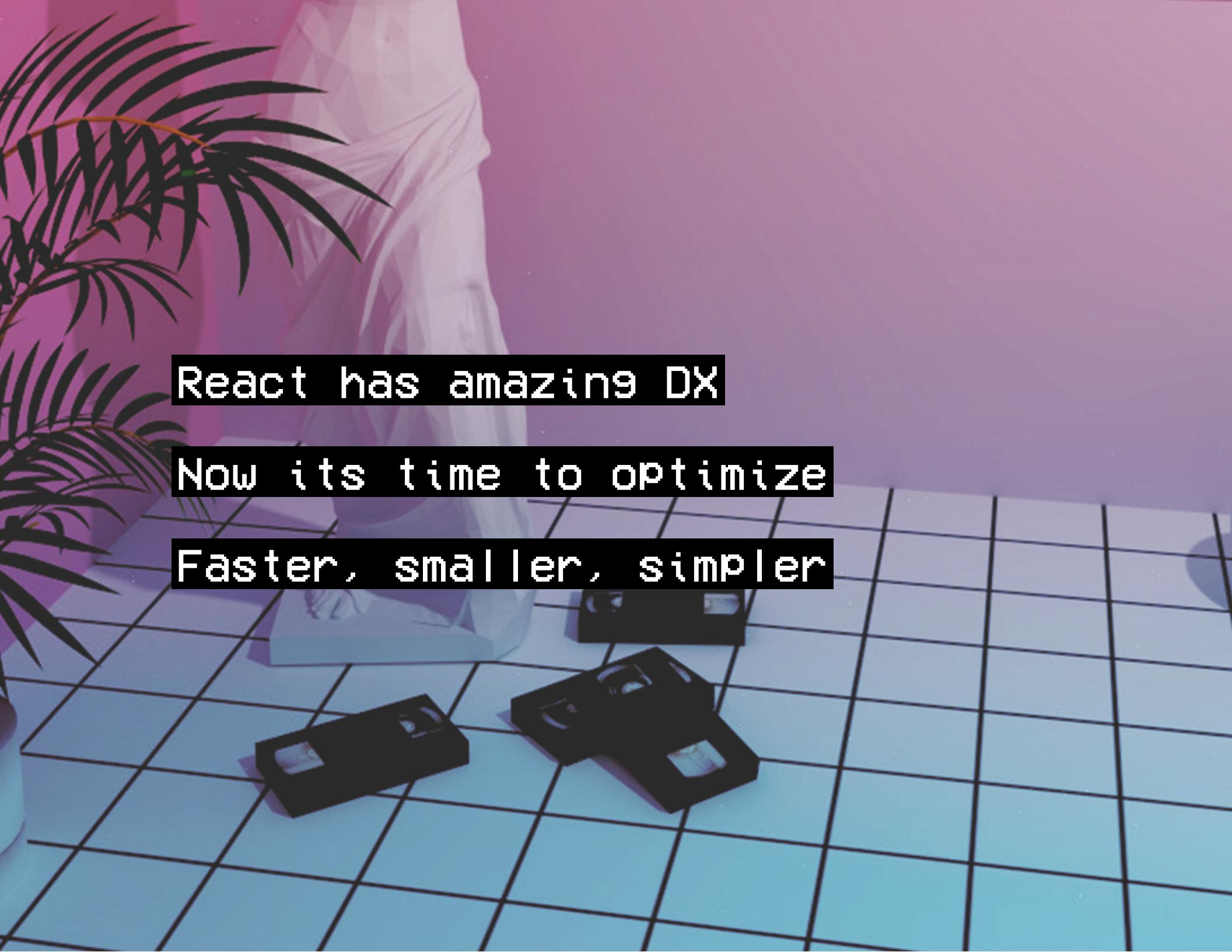
Suspense

Time slicing

Update control



OPTIMIZATION AND UX



React has amazing DX

Now its time to optimize

Faster, smaller, simpler

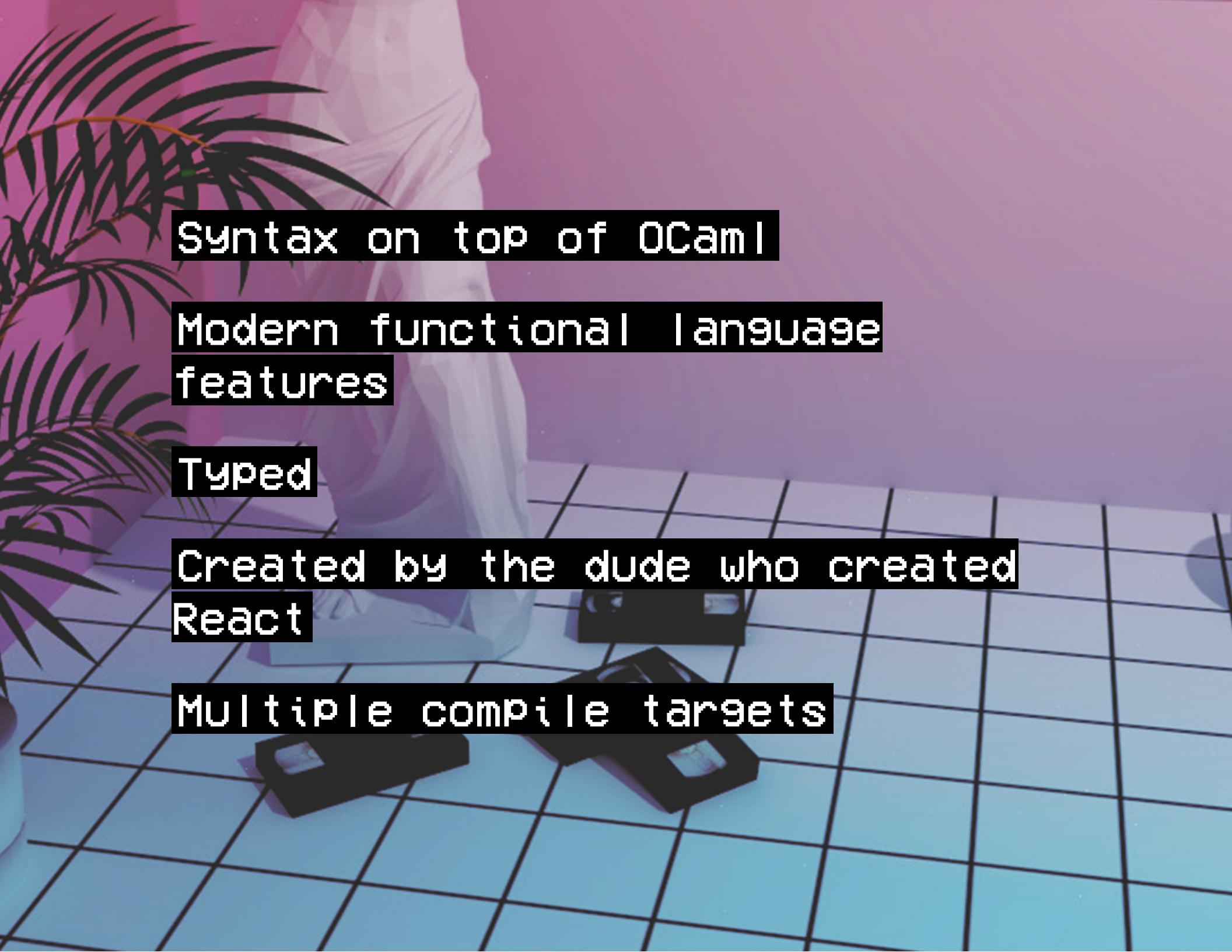


REASON

```
let component = ReasonReact.statelessComponent("Page");

let handleClick = (_event, _self) => Js.log("clicked!");

let make = (~message, _children) => {
  ...component,
  render: self =>
    <div onClick=(self.handleClick(handleClick))>
      (ReasonReact.stringToElement(message))
    </div>,
} ;
```

The background of the slide features a person in a pink dress standing behind a surface with a light blue and white grid pattern.

Syntax on top of OCaml

Modern functional language
features

Typed

Created by the dude who created
React

Multiple compile targets



TAKEAWAYS



A landscape photograph showing a river flowing through a dense forest. The sky is a vibrant pink, suggesting either sunrise or sunset. The water reflects the sky's color. In the foreground, there are large, dark evergreen trees. A small, thin tree stands out in the center-right. The overall atmosphere is serene and slightly surreal due to the color palette.

THANKS

AM 07·07·33