

Qwik fix to the cost of javascript

Introduction to the new web framework

Let's Begin →

Intro



- Manohar Srinivasa
- **SDE-2** with Digital Content Experience Platform building **TESCO Spectra**
- **6.5** years in Tesco

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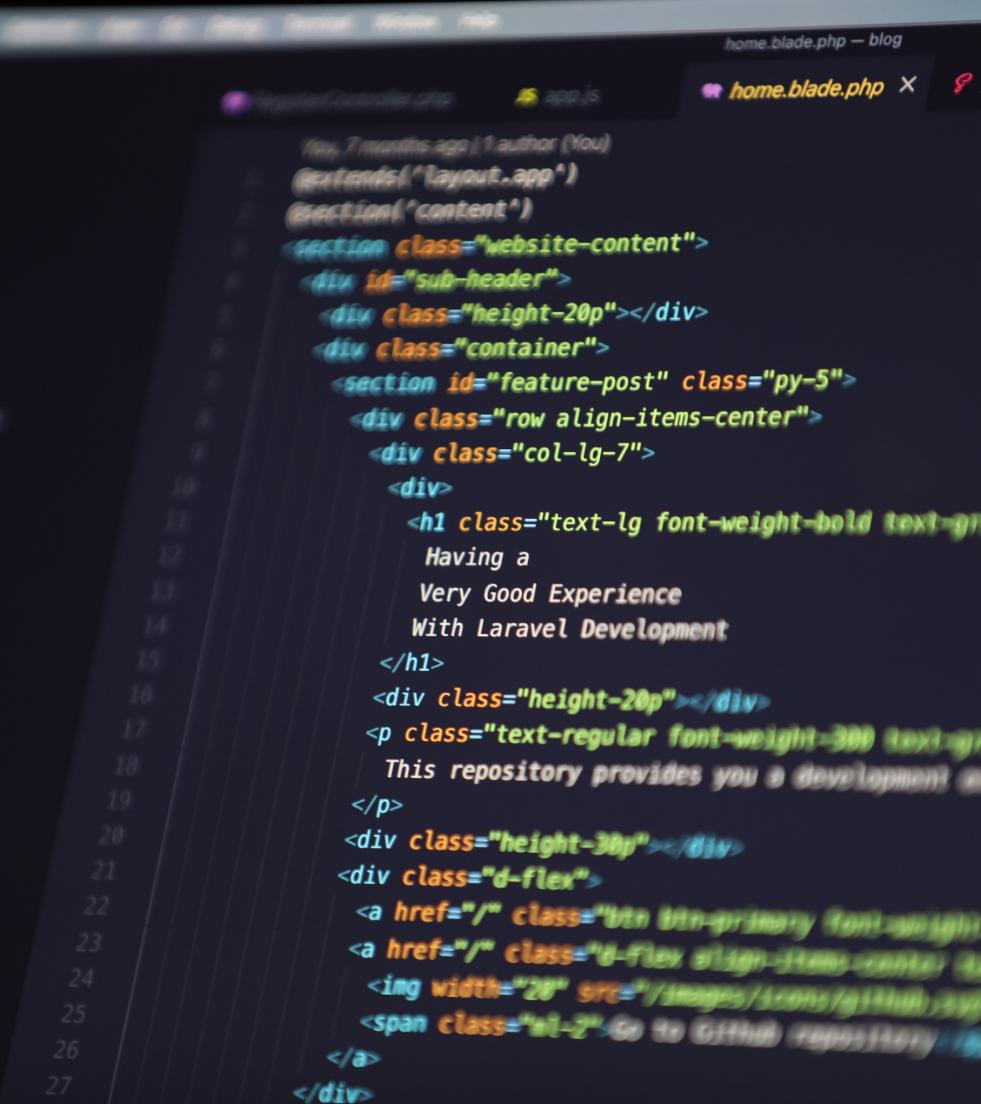
🌐 manohar27.github.io

Evolution of web development

Remember this?

```
<html>
  <head>
    <title>PHP Test</title>
  </head>
  <body>
    <?php echo '<p>Hello World</p>'; ?>
  </body>
</html>
```

- Multi page applications
- Any interaction was a page reload
- Zero javascript



A screenshot of a code editor displaying a Laravel blade template file named `home.blade.php`. The file content is as follows:

```
home.blade.php — blog
home.blade.php X 8

1 <?php $title = 'Home' ?>
2 <?php $content = 'Welcome to the Home Page!' ?>
3
4 <?php $image = asset('images/icon.png') ?>
5
6 <?php $repo = 'https://github.com/laravel/laravel' ?>
7
8 <?php $version = '5.8.18' ?>
9
10 <?php $date = 'July 7, 2019' ?>
11
12 <?php $author = 'Taylor Otwell' ?>
13
14 <?php $url = 'https://github.com/taylorotwell/laravel-blade' ?>
15
16 <?php $text = 'This repository provides you a development environment to
17 <?php $text .= ' experiment with Blade templates. It includes a simple
18 <?php $text .= ' package manager for installing third-party packages.
19 <?php $text .= ' You can also use Composer to install packages directly
20 <?php $text .= ' into your application.' ?>
21
22 <?php $text .= 'The Blade templating engine is a powerful template language
23 <?php $text .= ' designed for PHP. It allows you to embed PHP code within
24 <?php $text .= ' HTML files, making it easy to generate dynamic content.
25 <?php $text .= ' It also includes support for partials, inheritance, and
26 <?php $text .= ' component-based routing, making it a great choice for
27 <?php $text .= ' building complex web applications.'

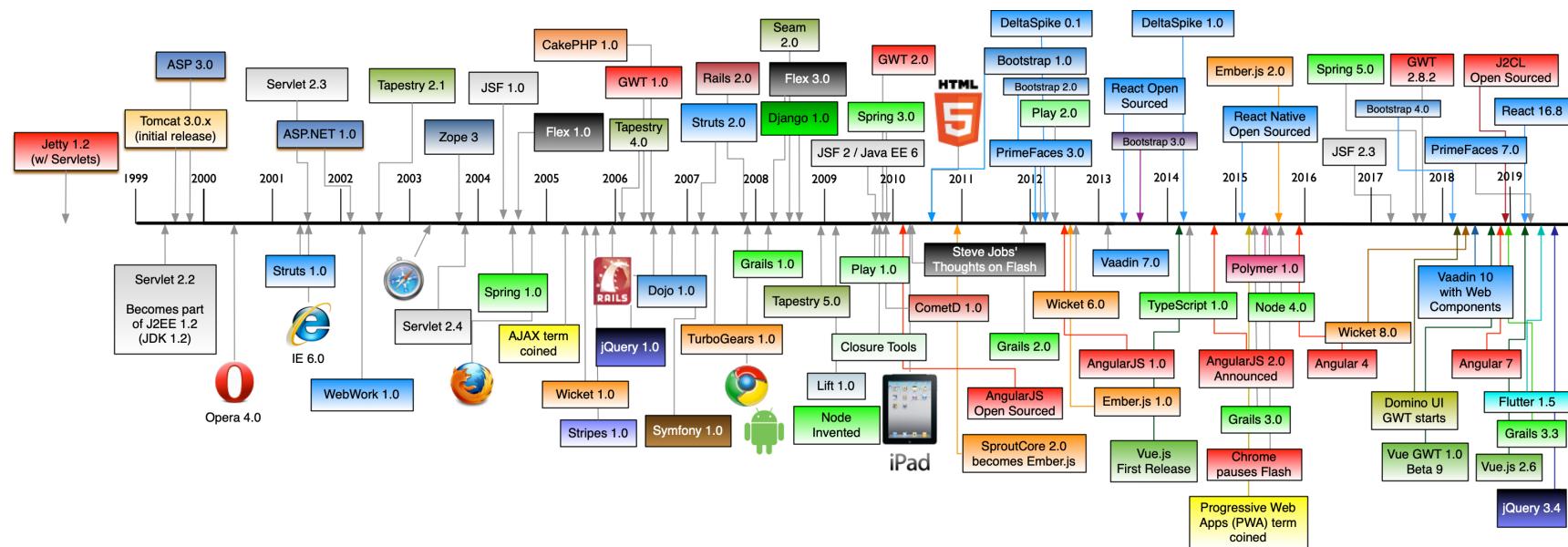
The code uses blade syntax (<?php) to define variables and sections. It also includes some inline PHP code (<?php $text = ... ?>) to build the main content of the page.


```

And these?



and everything else



Land of javascript

- jquery
- polymer
- ember
- backbone
- angular
- reactjs - nextjs, gatsby
- vuejs
- svelte
- etc



Quiz

What is the popular python based web framework  ?

- a) polymer
- b) vaadin
- c) django
- d) qwik

Answer

django

Cost of javascript

- Complexity  = Javascript 
- Download time
- Parsing
- Hydration

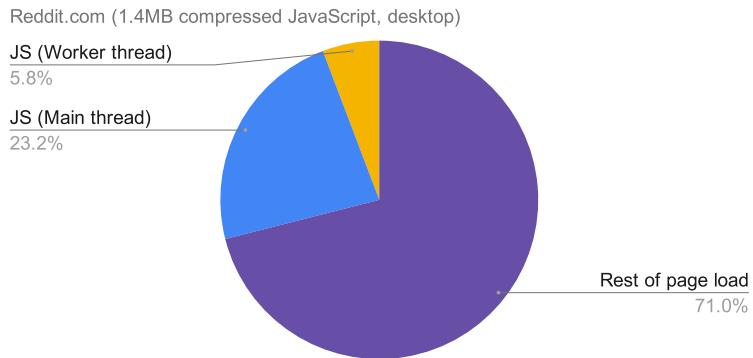
This leads to

- Impact on revenue
- Impact to SEO

You then try to solve it

- Devs figuring out how to split bundles
- Inlining critical css,js - lazy loading everything else

An example



**JS PROCESSING = 10-30% TIME SPENT
IN V8 DURING PAGE LOAD**

Source: v8.dev (2019)

Another example: tesco.com

Quiz

Any guesses on what tesco.com's webvitals performance score is?

Post your guesses in the teams chat

Answer

- Mobile



Performance

Values are estimated and may vary. The [performance score is calculated](#) directly from these metrics. [See calculator.](#)

▲ 0–49 ■ 50–89 ● 90–100

- Desktop



Performance

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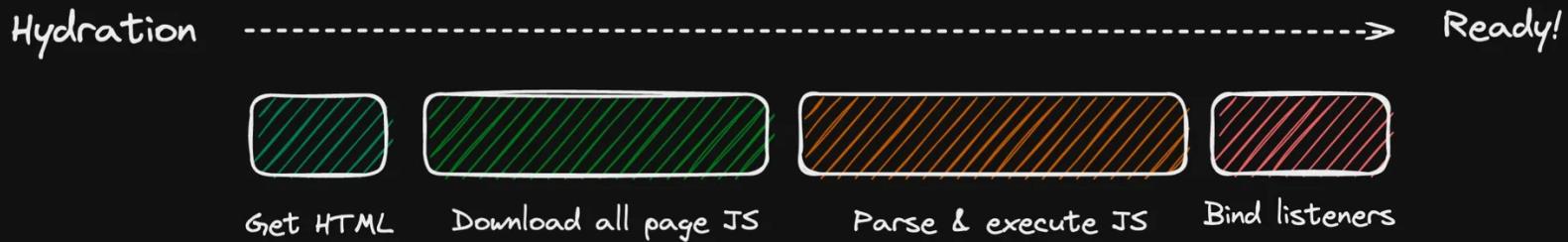
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Qwik

What is qwik?

Core principle

Hydration is the enemy



Resumable -----> Ready!



Get HTML

- Resumable
- Progressive

Hands on

Timed Todo App

- Let's implement, delete todo functionality

The screenshot shows a mobile application interface for a 'Timed Todo App'. At the top, the word 'todo' is displayed in large purple letters. Below it is a horizontal line. Underneath the line, the text 'Let's get things done' is followed by a green checkmark icon.

A search bar contains the text 'take a break'. To its right is a purple button labeled 'Add'.

The main area features a section titled 'Next up' with a clock icon. It lists two items:

- Create first qwik app**
A timer icon shows '00:00'. To its right are three buttons: 'start' (with a clock icon), 'done' (with a green checkmark icon), and 'delete' (with a red X icon).
- Deploy on vercel**
A timer icon shows '00:00'. To its right are three buttons: 'start' (with a clock icon), 'done' (with a green checkmark icon), and 'delete' (with a red X icon).

At the bottom, the word 'Completed' is followed by a small confetti icon.

Questions

