Introduction to Browser DOM
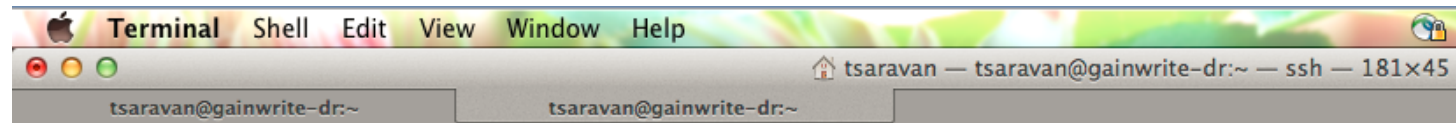
November 23, 2012

Sivasubramaniam Arunachalam

@sivaa_in

It's about you!

- Browsed Web(Site)
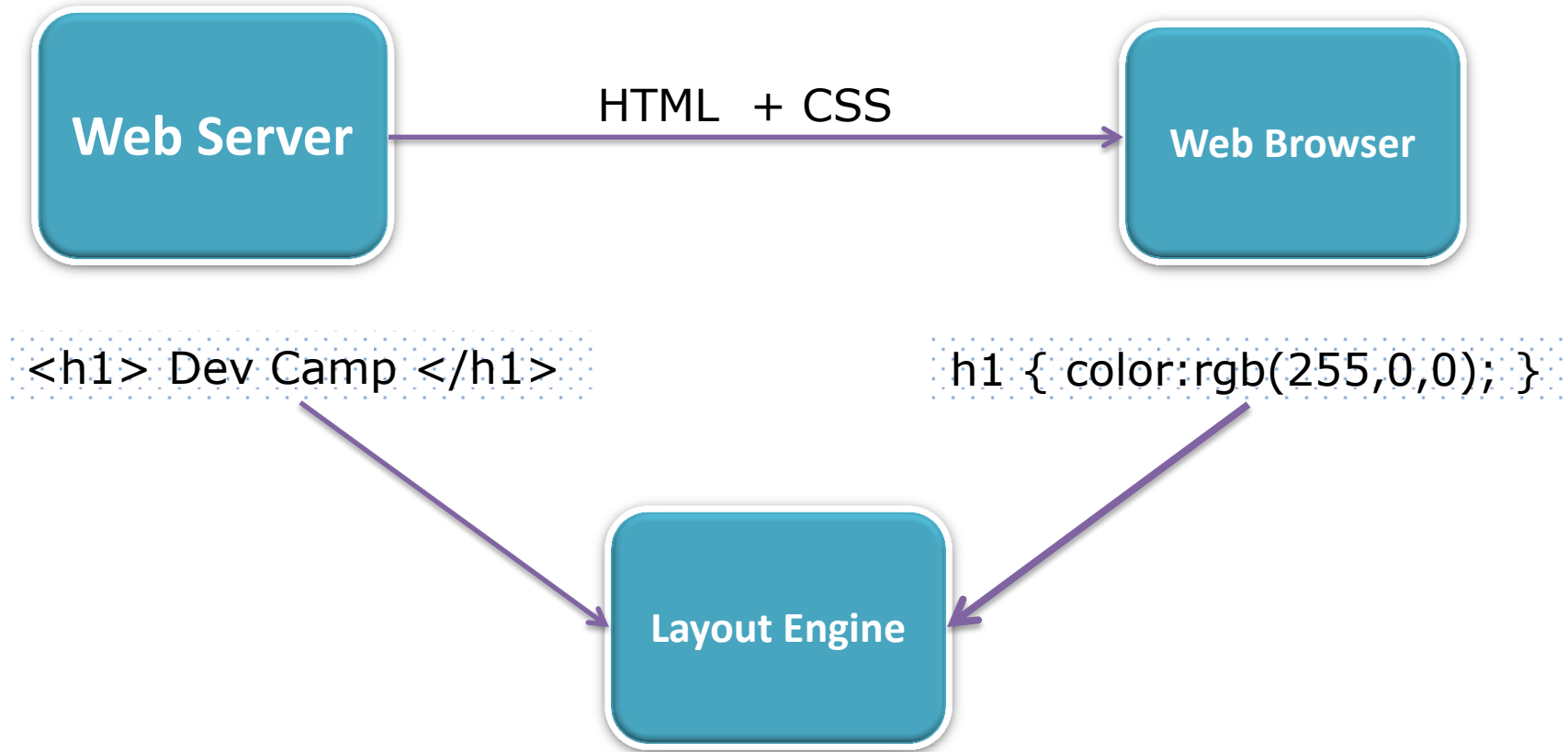
- Web(Site) Developer [Optional]
  - Tasted JavaScript

The Past

Today

Known Words

- Web Page(s)
- Content (Hypertext)
  - Text
  - Links
  - Images
  - Videos

- Web Browser

The Route

Web Server → HTML + CSS → Web Browser

`<h1> Dev Camp </h1>`

`h1 { color:rgb(255,0,0); }`

Layout Engine

Dev Camp
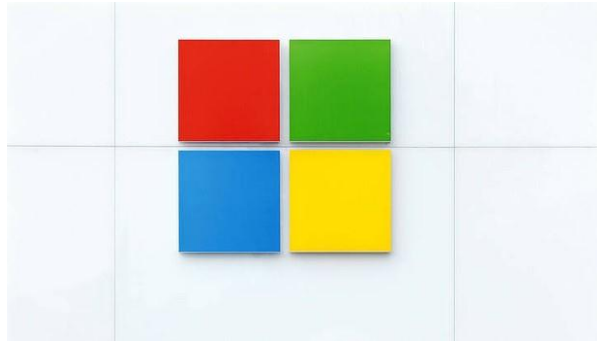
Layout Engines - **Web Kit**

By

Used in

Layout Engines - **Web Kit**

- **iOS**
- **Android**
- **BlackBerry Tablet OS**
- **web OS**
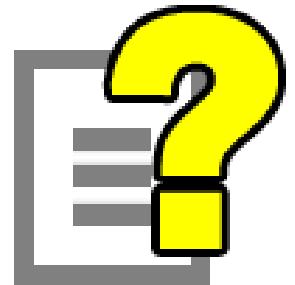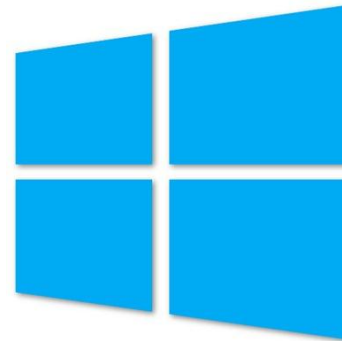- **S60**
- Standard Browsers in Mobile

40%

Layout Engines - **Trident**

By

Used in

Layout Engines - **Gecko**
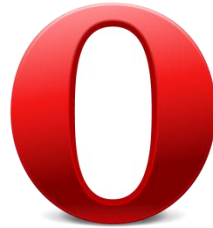
By

Used in

Layout Engines - **Presto**

By O

Used in O

The Internals

- Objects
- Document Object Model

Root Document
- head
  - title
- body
  - h1

Access & Manipulation

- Web 1.0 (~ 0% Dynamic)
- Web 2.0
- Objects are waiting
  - DOM
- Need a Language
  - Java Script

JS Engines

Chakra

Nitro

V8

Carakan

- **Rhino**
- **SpiderMonkey(s)**
- **Tamarin**

OO DOM

- Members / Properties
- Methods / Behaviors
- Other Objects (recursive)
- DOT Notation

Examples:

- document.title
- window.print()

DOM – Internal Objects

- window
- document
- navigator
- screen
- history
- location

DOM – Internal Representation

- Node
  - Element
    - HTML Element
      - HTML Input Element
        - HTML Table Element

Talk is cheap. Show me the code.

Demo

Developer Tools

Thank You!

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