

# Introduction to Browser DOM

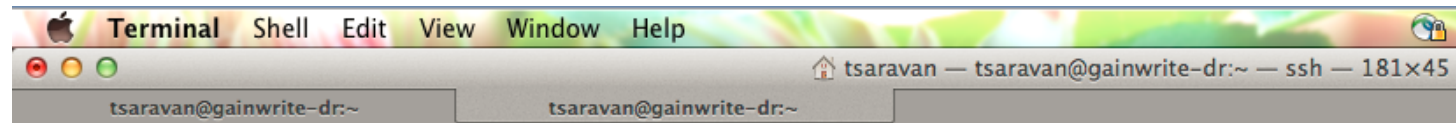
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# It's about you!

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

# The Past



Search **Images** Maps Play YouTube News Gmail Drive More »  
Web History | Settings | Sign in

Google  
India

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Language tools

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(NORMAL LINK) Use right-arrow or <return> to activate.

Arrow keys: Up and Down to move. Right to follow a link; Left to go back.  
H)elp O)ptions P)rint G)o M)ain screen Q)uit /=search [delete]=history list

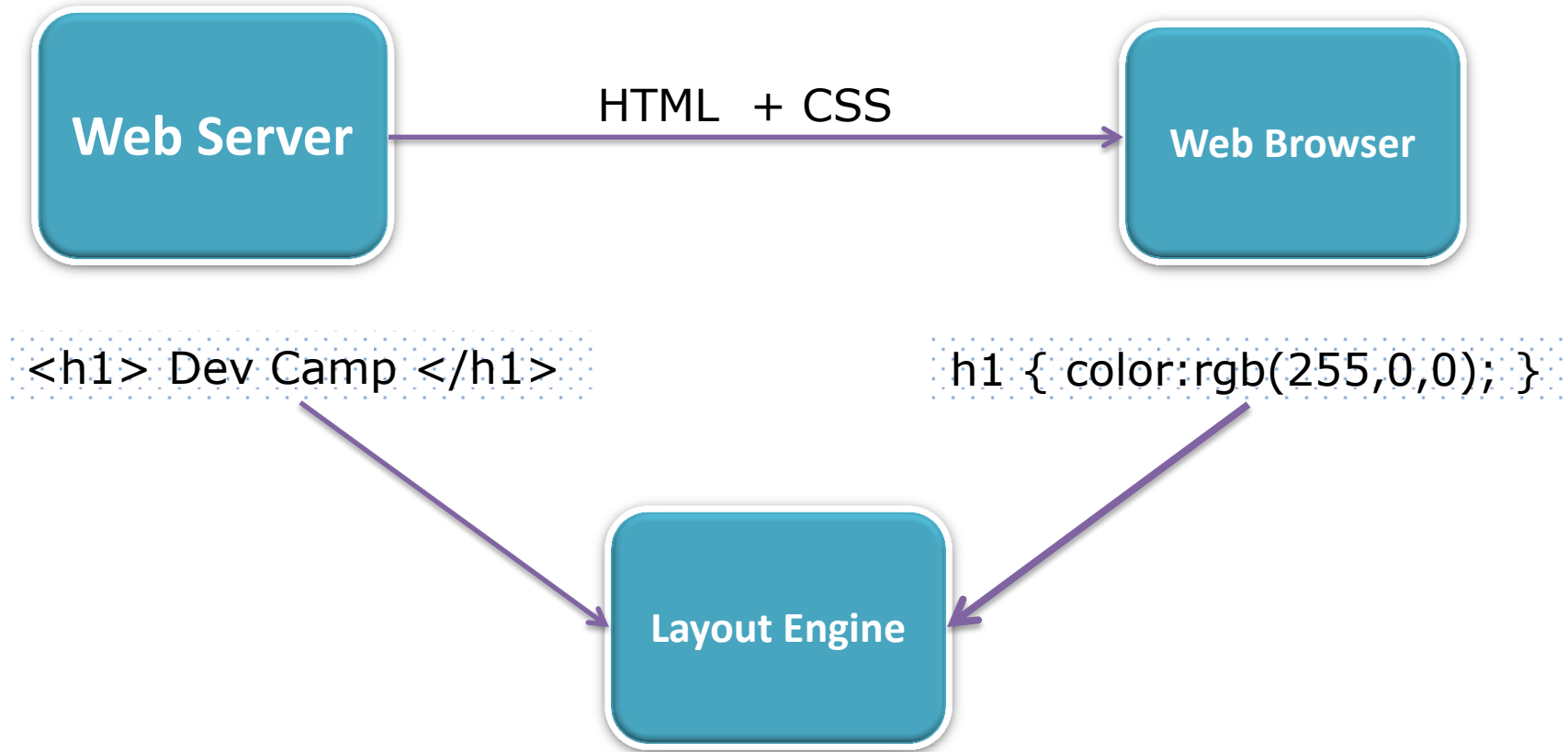
# Today



# Known Words

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

# The Route



**Dev Camp**

# Layout Engines - **Web Kit**

**By**



**Used in**



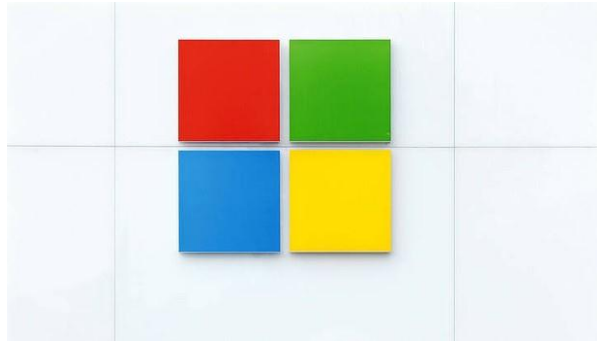
# Layout Engines - **Web Kit**

- **iOS**
  - **Android**
  - **BlackBerry Tablet OS**
  - **web OS**
  - **S60**
  - **Standard Browsers in Mobile**
- 40%**

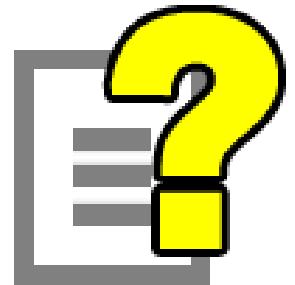
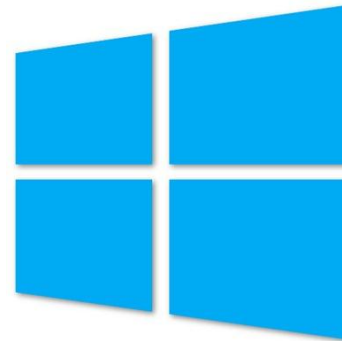


# Layout Engines - **Trident**

**By**



**Used in**



# Layout Engines - **Gecko**

**By**

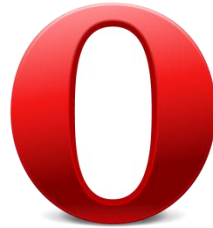


**Used in**



# Layout Engines - **Presto**

**By**



**Used in**



# 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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# References

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