azena

IK WIL

Short recap day #1

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Agenda - roughly

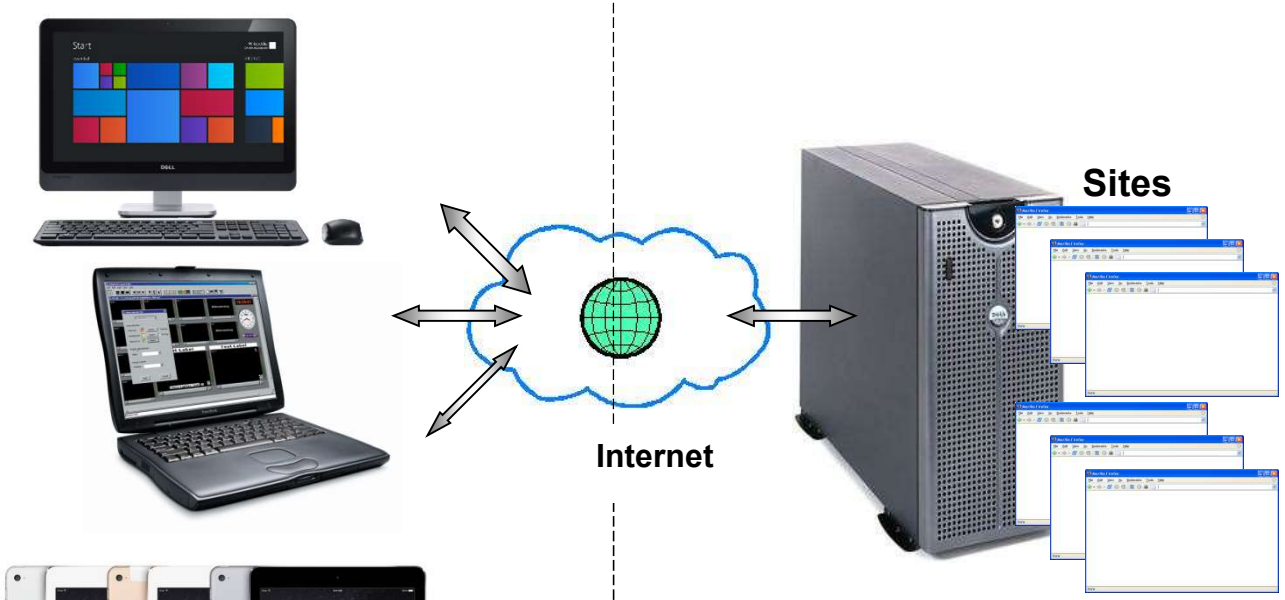
Day 1 – Overview of the frontend landscape – HTML, CSS, JavaScript

Dag 2 – Introduction Vue

Dag 3 – More Vue, Vuetify, Communication with API’s

Client

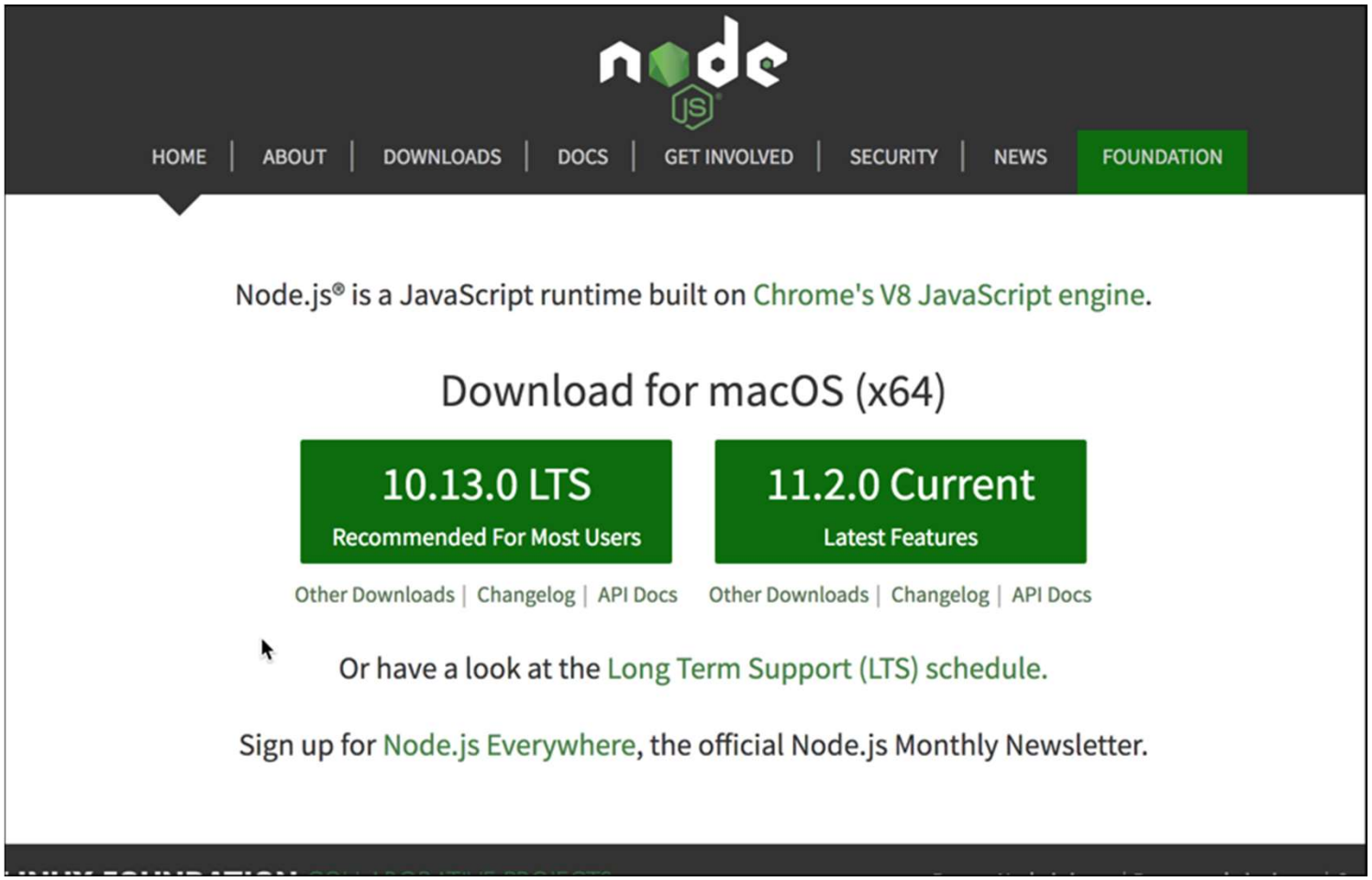
Server



HTML,
CSS,
JavaScript

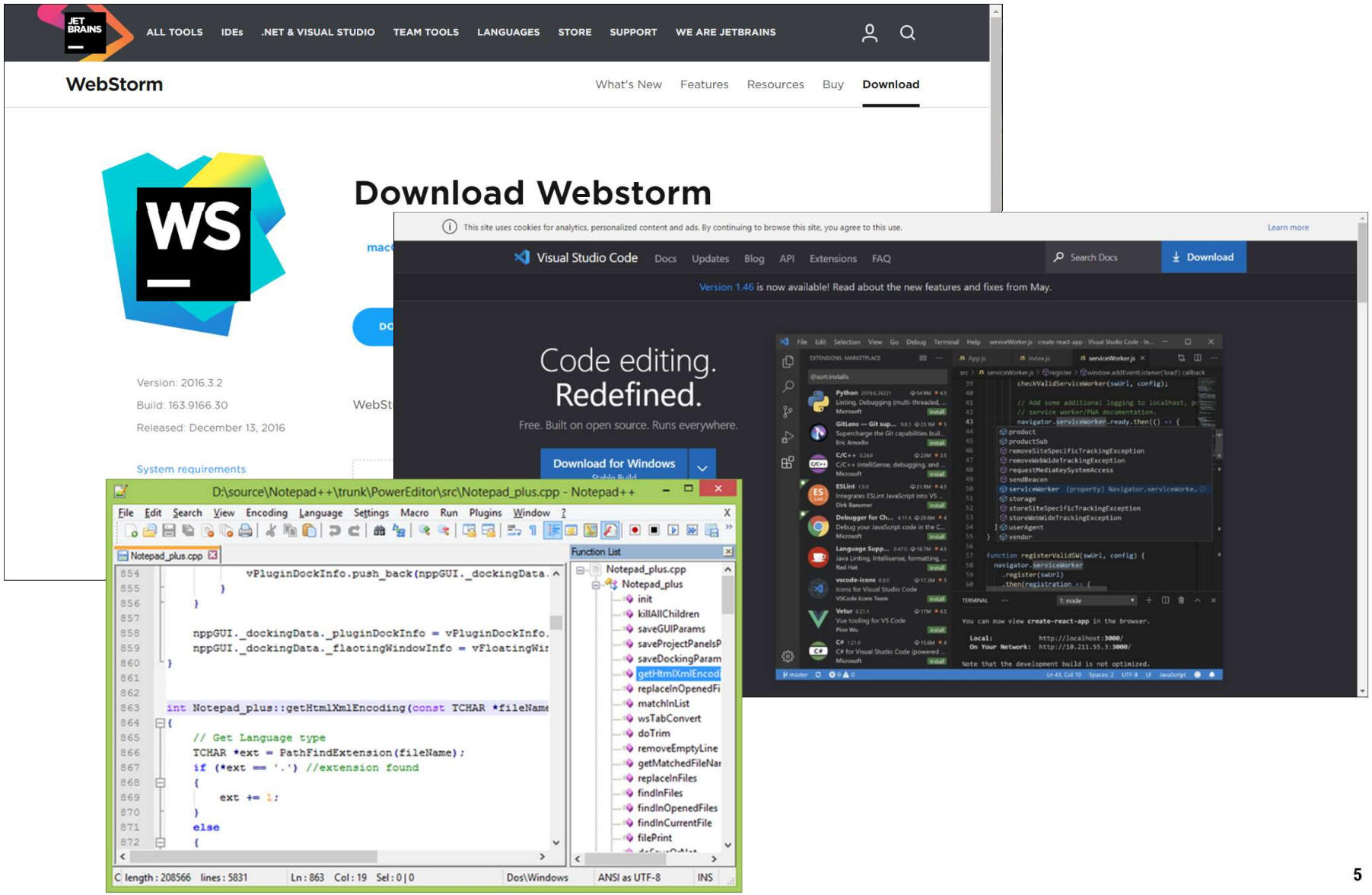
C, C++, Java,
Ruby,
Python, PHP,
C#, …

Node.js - JavaScript Runtime



https://nodejs.org/en/

Editors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Notepad_plus.cpp
Function List
int Notepad_plus::getHtmlXmlEncoding(const TCHAR *fileName
// Get Language type
TCHAR *ext = PathFindExtension(fileName);
if (*ext == '.') //extension found
ext += 1;
else
C length : 208566 lines : 5831
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INS

1. Position of HTML

A site/page/app/component (User Interface) is always based on:

HTML5

(*structure*)

JavaScript/DOM

(behavior/intelligence)

CSS

(*presentation*)

Tags

- HTML In total : about 120 different *tags*.
- Container tags
  - Always in pairs. Have a *beginning*- and *end* tag
  - For instance bold: `<strong>...</strong>`

    and headings `<h1>....</h1>`
- Open tags
  - One-off action, For instance a horizontal rule `<hr>`
- Attributes
  - Extend the possibilities of tags

Tags for

- Structural elements
  - `<h1>, <p>, <br>` etc.
- Links
  - `<a>…</a>`
- Images
  - `<img>`
- Lists
  - `<ul>, <ol>, <li>`
- There is more…
  - https://www.w3schools.com/html/default.asp

2. CSS - Basic syntax

```
body{
        color : #FF99CC;
        background-color : #FFFFFF;
        font-family : arial, sans-serif;
        margin : 10px;
        padding : 10px;
}
```

Important concepts:

- *selectors* en *declarations*
- *CSS- "rules"*

Multiple types of Selectors

- Elements Selectors

  p {...} body {…} ul {…}

- Class selectors

  ```
  .className {… }
  ```

- Id selectors

  ```
  #idName {…}
  ```

- Contextual selectors, pseudo selectors/classes
  - https://www.w3schools.com/css/css_pseudo_classes.asp

CSS- box model

- Set white space inside and outside the element
- Give elements some air in relation to each other
- Order: *top right bottom left*

3. JavaScript Point of departure

- JavaScript itself (EcmaScript) is de language (*core language*)
- JavaScript has different execution contexts
  - Client sided (browser)
  - Server sided (webserver)

JavaScript

- Statements
  - Syntax rules
- Variables –
  - Simple values : `Boolean`, `string`, `number`
  - Complex values: `Array`, `Object`, `Function`
- JavaScript works with the browser
  - `Document.getElementById(…)` etc.

Questions?

Agenda - roughly

Day 1 – Overview of the frontend landscape – HTML, CSS, JavaScript

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Day #2 – Introduction Vue

- Introduction – short recap, overview of the front-end landscape
- Vue tooling – installation, cli, devtools
- The structure and architecture of Vue apps.
  - Hello World
- Zooming in:
  - Components, data binding, attribute binding, event binding