

JavaScript: ^{with class functions} ECMA-262, object oriented, classes, dynamic variables
internal head, internal body, external head, (+ inline)

=> Prototypes

Browser Object Model: ^{global "namespace"} window, screen, location, alert
Document Object Model: Tree structure for HTML elements

Web Accessibility: W3C Web Accessibility Initiative

Web Content Accessibility Guidelines: (WCAG)

- Perceivable: presentable in different formats
- Operable: ie keyboard navigation
- Understandable:
- Robust: interpretable by different user agents

Accessible Rich Internet Applications: adding Semantics

- Role: input, list, button, ...
- Property / State: aria-label, aria-checked
- > HTML5 -> default semantics

Responsive Design

Techniques: Media queries, Fluid / Gridbased layout, Responsive images, Font scaling, ...

Viewport: Visible area of webpage

Layout Patterns: Mostly fluid
column mpp
layout shifter
Tiny Tweaks
Off Canvas

HTTP: Resource, URL

Synchronous, Stateless

Request: resource, type, application metadata, request metadata, application data
↳ methods: Get, Post, Put, Delete, Patch, Options, Trace, Connect

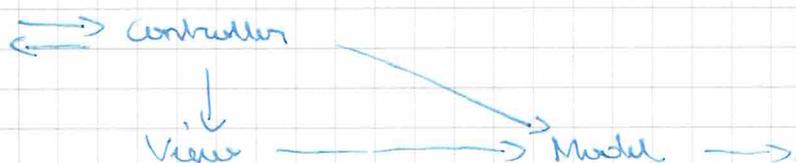
Response: status code, application metadata, response metadata, application data

Servlet: dynamically generating response
↳ CGI

- wov. files
- sessions

JSP: Translation to servlet

MVC: Model: state, data (, application logic)
View: Renders model data
Controller: Interprets user input, maps input to model



Patterns: reusable solution to recurring problems
has a name
language independent
has consequences

- Architectural
- Design Patterns: Creational
Structural
Behavioral
Concurrency

Architectural: Model View Controller
Result Callback

Creational: Factory Method
Abstract Factory

Structural: Adapter
Facade

Behavioral: Strategy
State (Leichtgewicht, schwergewicht)