Web™
A journey into the wonderful world of Web Technologies

Fundamentals

- *Markup*
- *Styling*
- *Interaction*
- *Data Storage*
- *Transport*

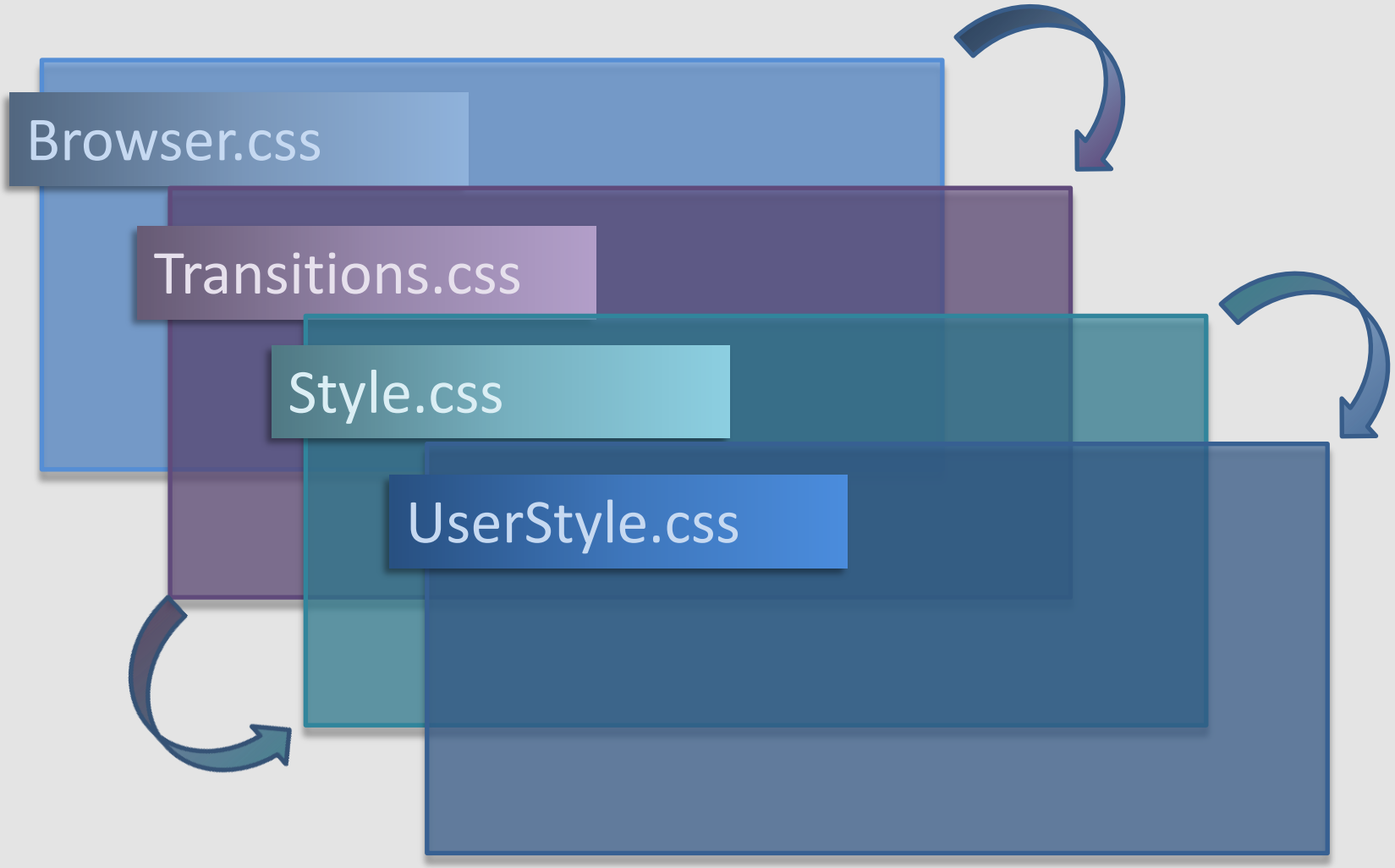
<HTML>

Markup

</HTML>

Tables
Hyper Links
href
<script>
<p>
Elements
<style>
DOCTYPE
Tags
Attributes
<param>
Lists
<pre>
href
meta
<frameset>
Images
Tables
<canvas>
IFrames
ISO-8859-1
<label>
<p>
<title>
<video>
meta
Images
<h1>
<frameset>
Elements
Lists
ISO-8859-1
<title>
<param>
<canvas>
<video>
<label>
DOCTYPE
<body>
Attributes
Tags

Cascading Style Sheets



Styling

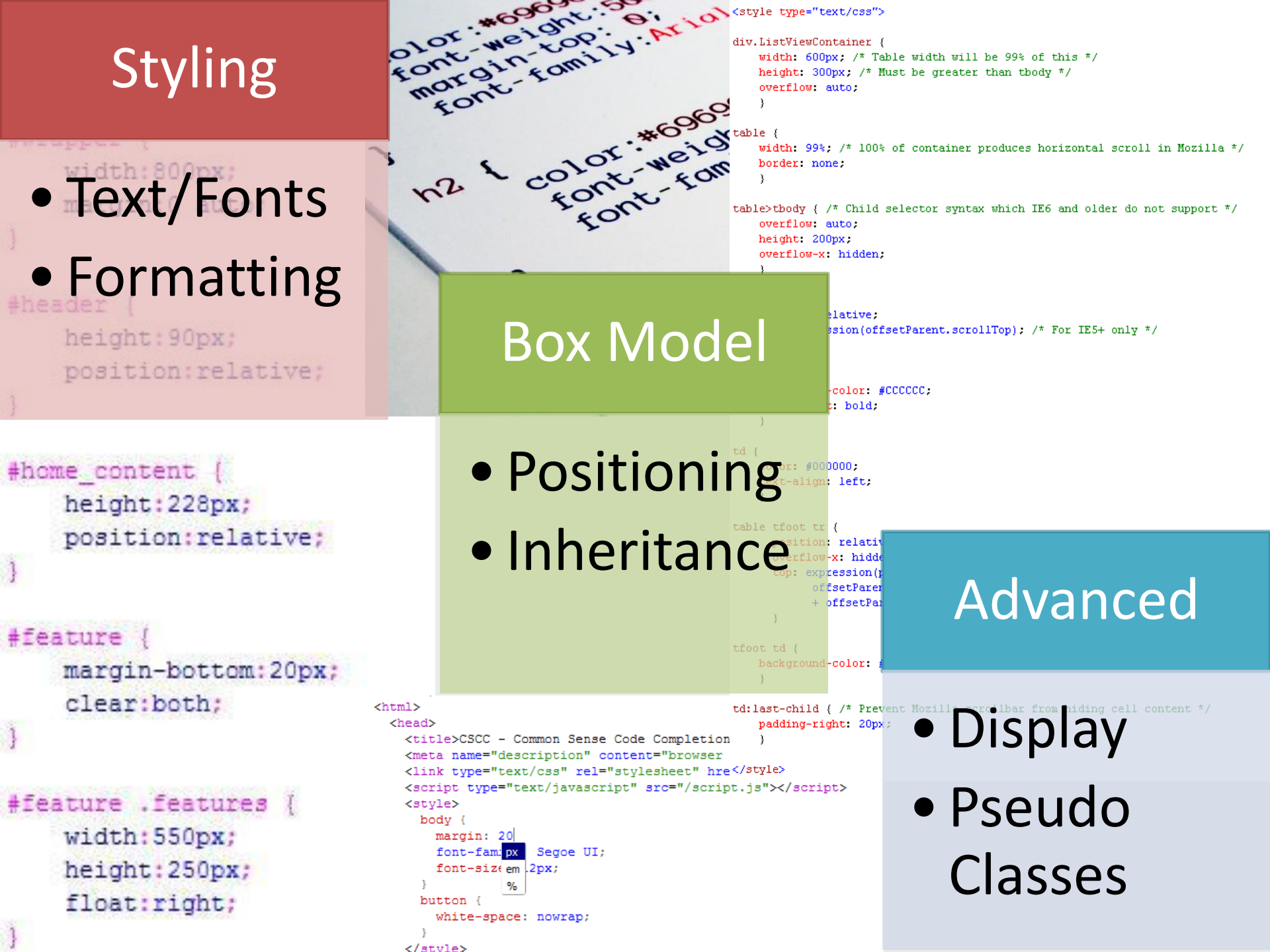
- Text/Fonts
- Formatting

Box Model

- Positioning
- Inheritance

Advanced

- Display
- Pseudo Classes



<script>

document.getElementById("demo").inner

HTML=" JavaScript *");*

</script>

- ECMAScript-262 edition 5; JavaScript 1.8.5
- Weakly typed
- Client-side only
- C style linguistics, Scheme/Self like design.
- Functions -> first-class citizens
- DOM Manipulation
- Storage via cookies ☺

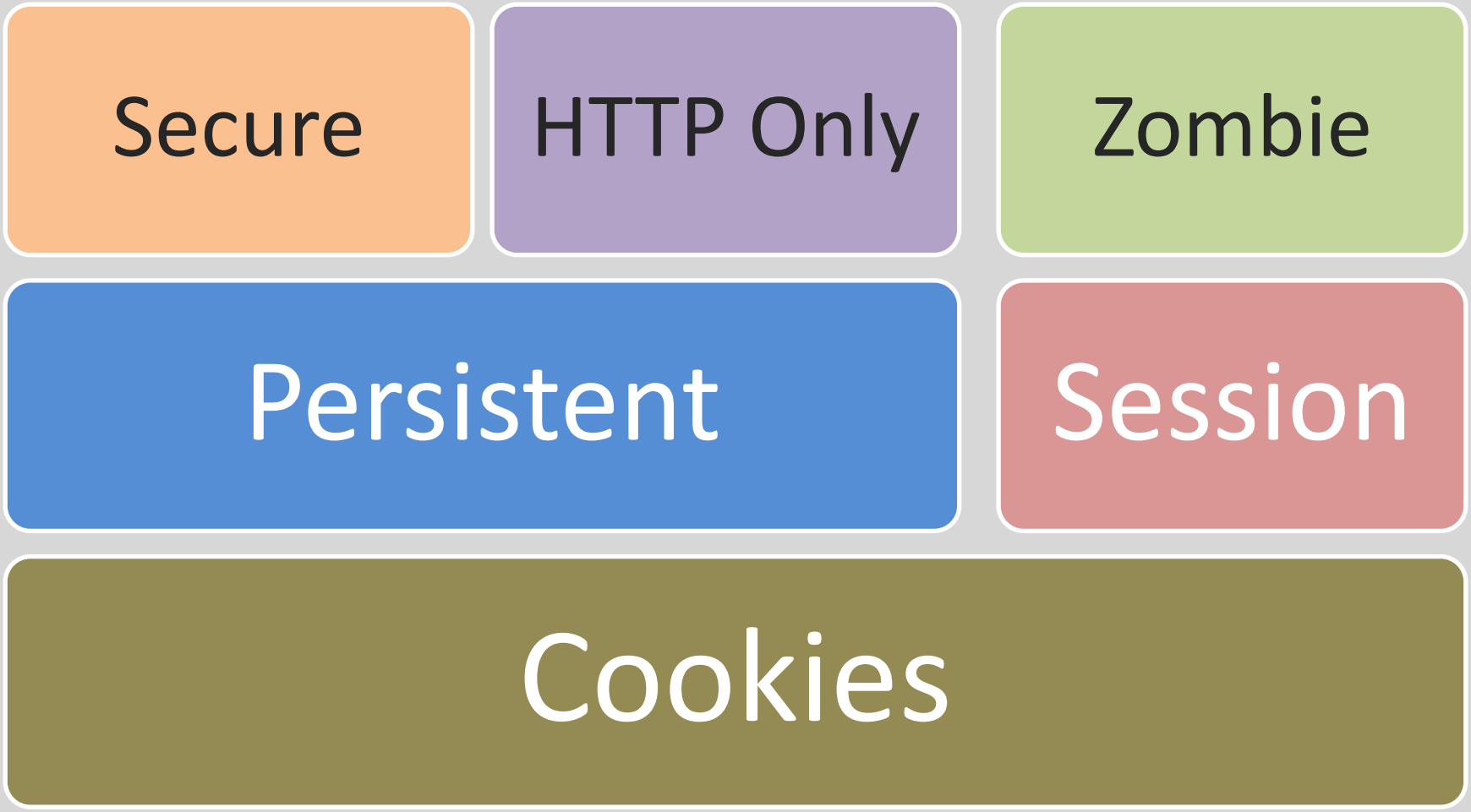
- ✓ Moving stuff around
- ✓ Graceful degradation
- ✓ Accessibility
- ✓ Input Validation
- ✓ Libraries galore – *jQuery, Skeleton, Prototype, MooTools, YUI, D3,Raphaël, Processing, Paper, yada-yada-yada…*
- ✓ Gaming @ 10ms FRR *oh? yeah !!*

The ***fun*** part…

- ***P***HP ***H***ypertext ***P***re-processor
- Prettify your HTML !!
- On-the-fly page generation
- Graphs, images, charts, data…
- URL Manipulation
- PHP+JS = State-ful pages ☺

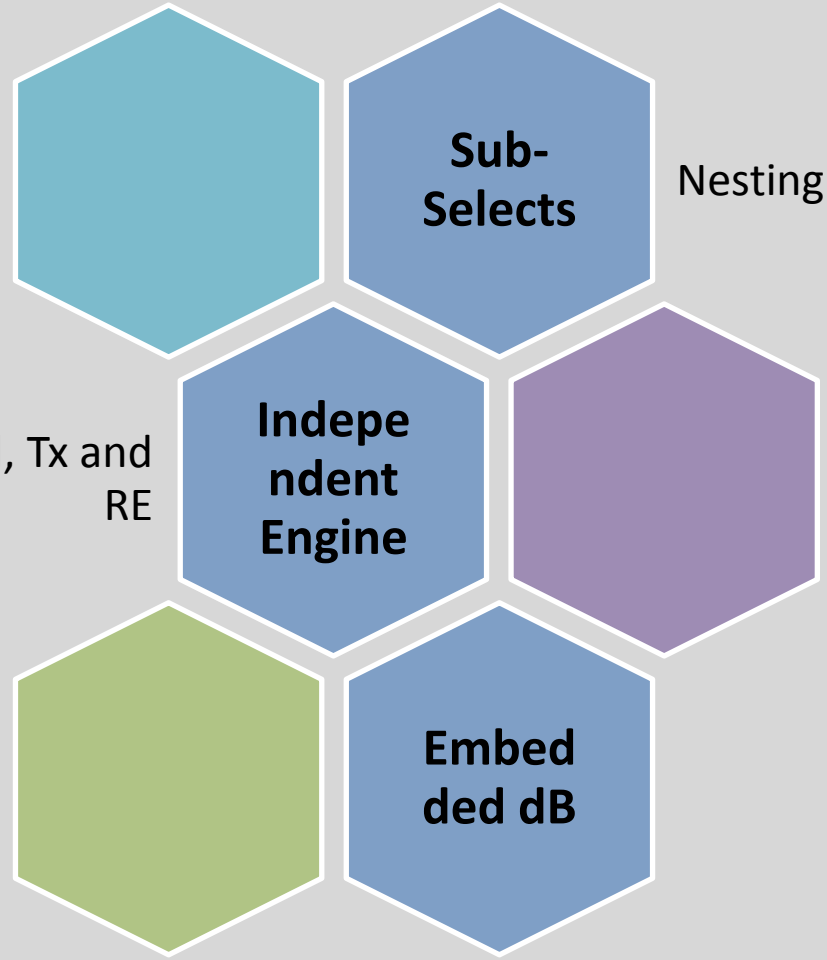
- GUI Apps : WinBinder, php-gtk
- SQLite : Server-*less* data
- **C**ompletely **A**utomated **P**ublic **T**uring test to tell **C**omputers and **H**umans **A**part
- Multipart email messages with attachments and embedded html
- Unit Test your apps

Persistent Storage



- Cross Platform, Open Source
- Stored Procedures
- Query caching, Full text Index

MySQL®

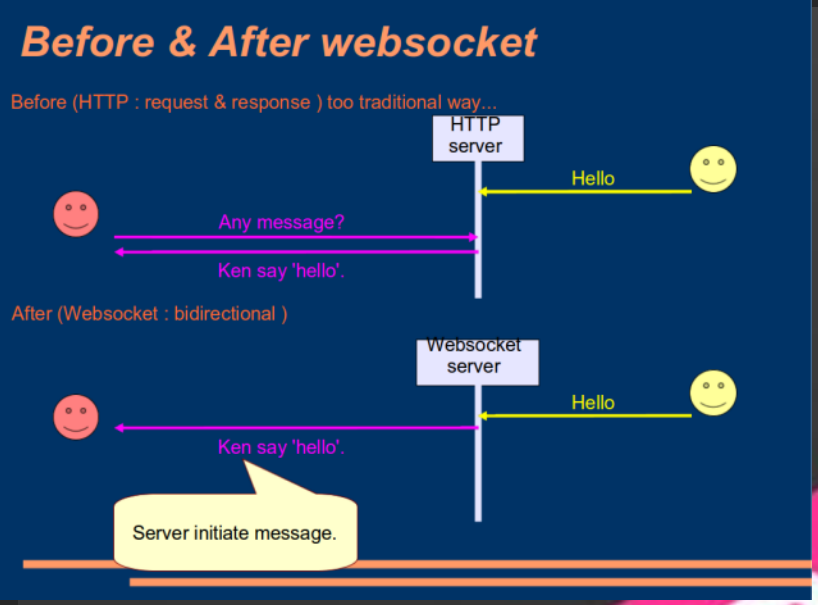


Nesting of selects

For Read, Tx and RE

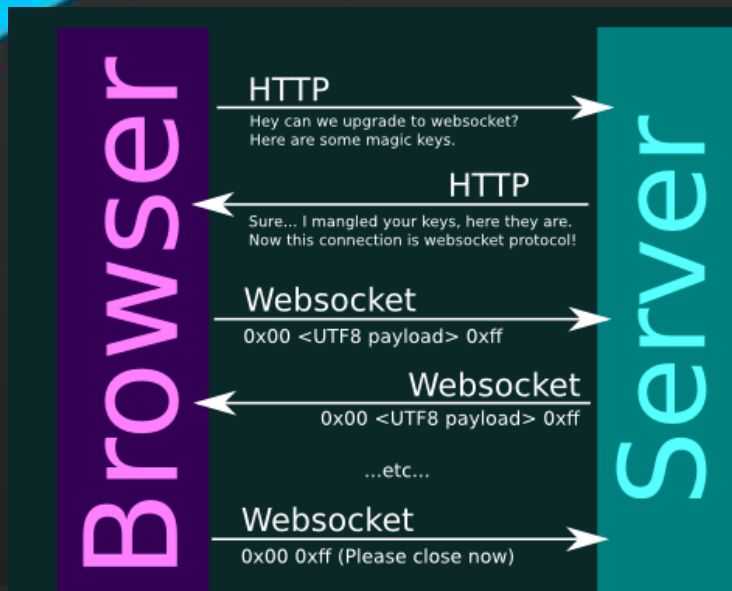
MySQL®

SQL
redis
Cassandra
HBASE
riak
mongoDB
membase
Apache
CouchDB
CouchBase



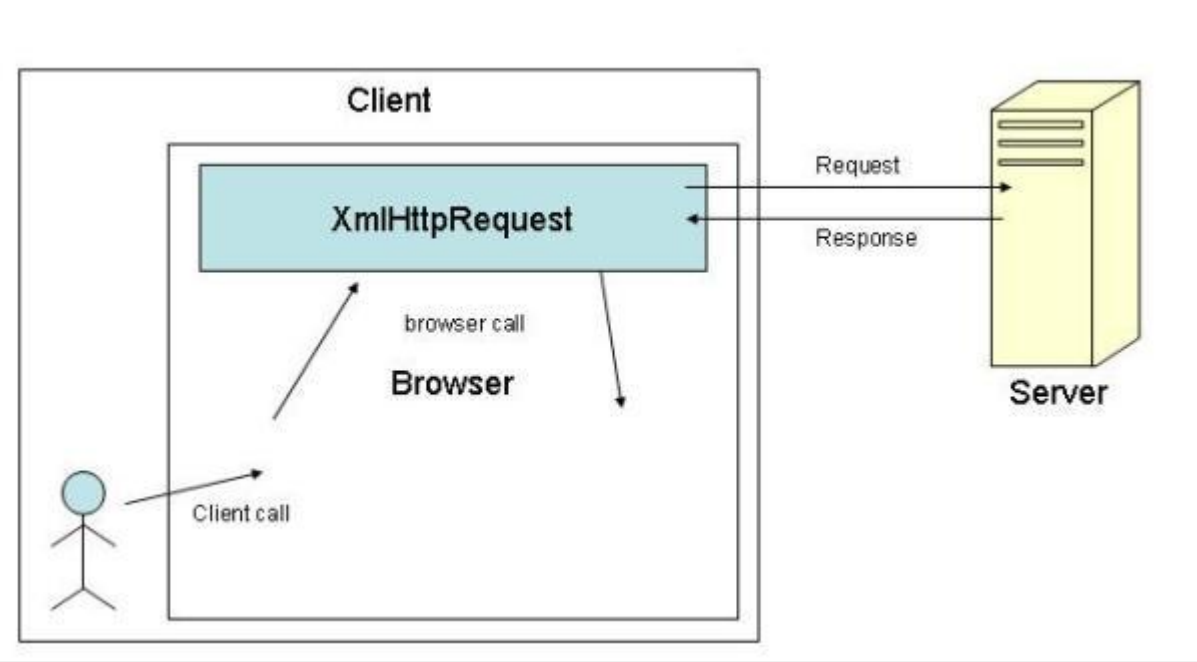
WEBSOCKETS

Embracing the real-time Web



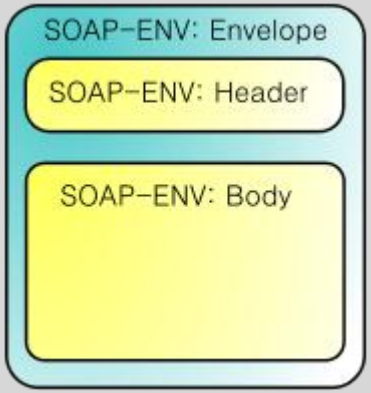
XMLHttpRequest

- Update a web page without reloading the page
- Request data from a server after the page has loaded
- Receive data from a server after the page has loaded
- Send data to a server in the background

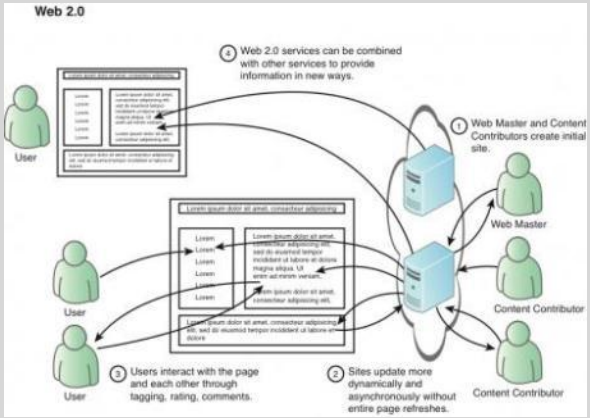


…of SOAPs and ReST

- Simple Object Access Protocol ⇔ XML MPI



- Representational State Transfer ⇔ CRUD via HTTP



Whew, that's it for today ☺