

Serverside

Javascript

Hope & Opportunity

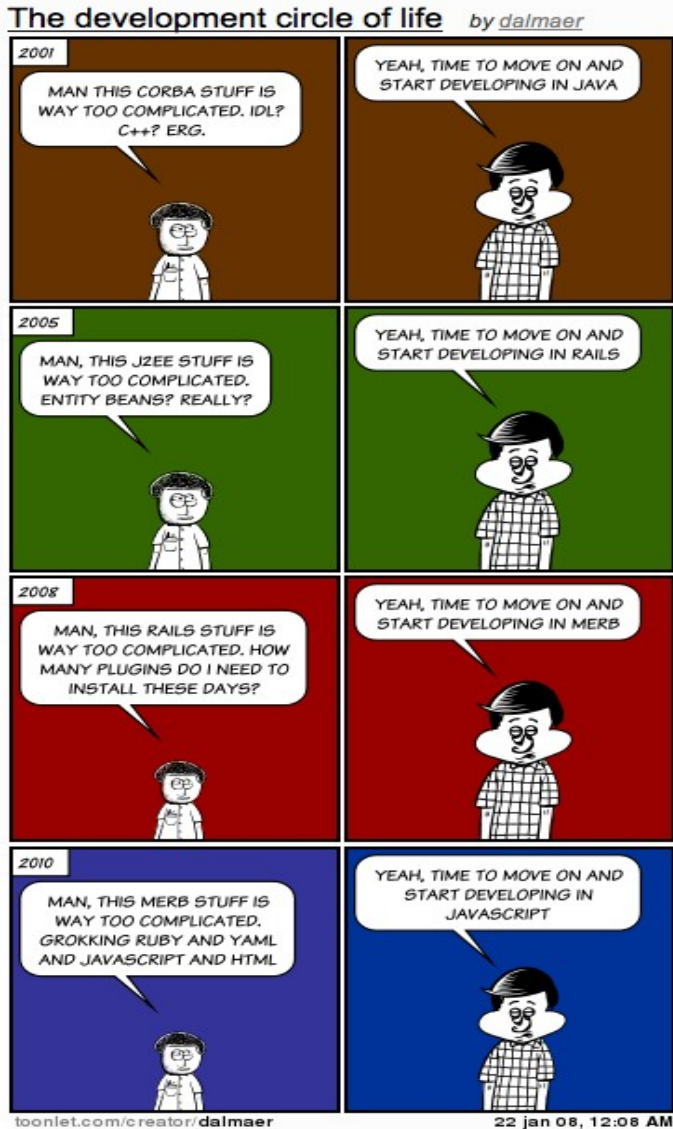
Introducing
STARBUCKS

A Future SSJS
Web Development
Framework

Mário Valente - Codebits 2008

<http://softwareas.com/>

server-side-javascript-hope-and-opportunity



“The real gap is in server-side frameworks and hosting. There’s no “killer app” Javascript server, a la what Rails did to Ruby.”

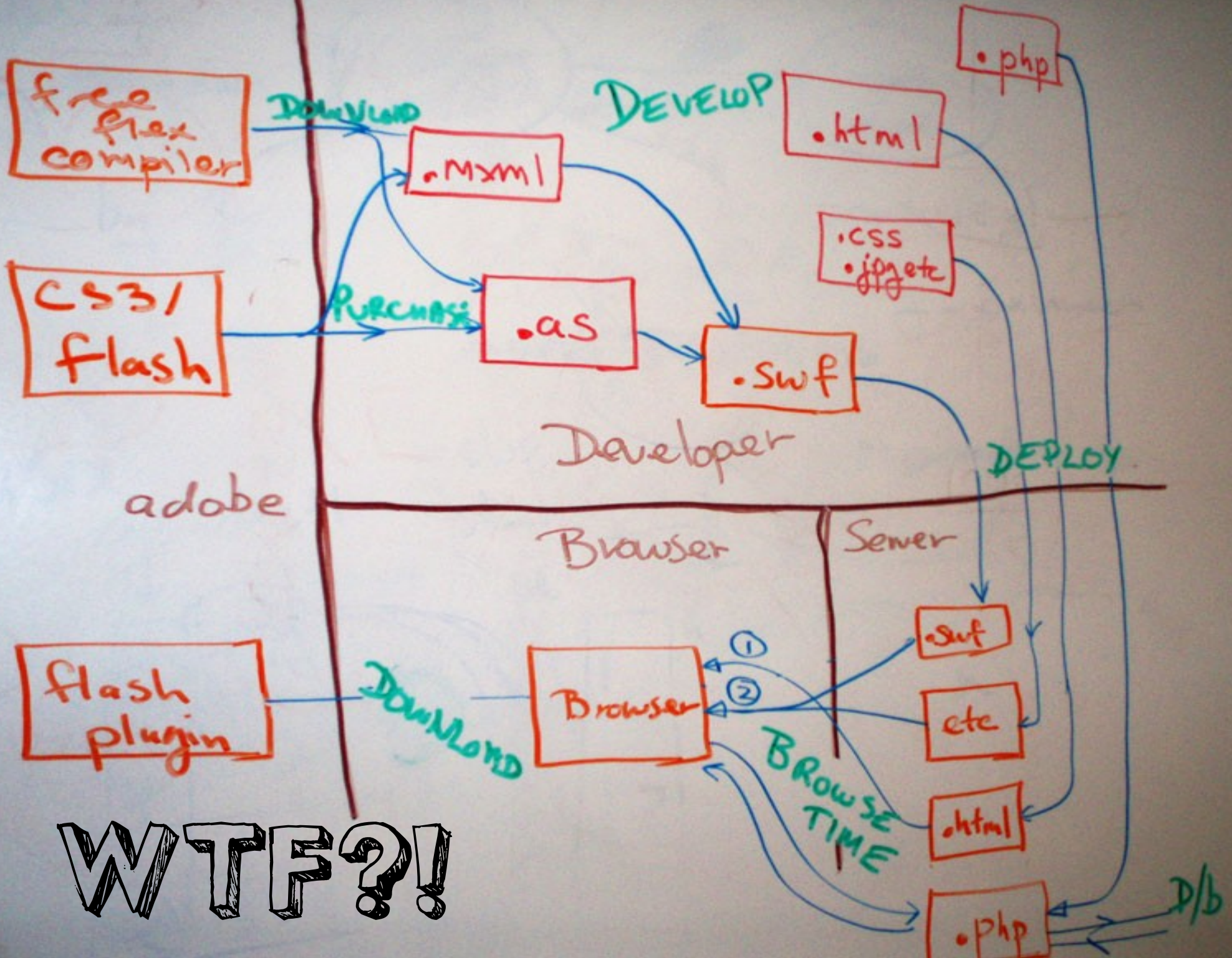
“If they can come up with a solid virtualisation environment for Javascript, they may be on to a big winner. They could be the BEA or JBoss of 2015”

Agenda

- WTF (15 min)
- RTFM (15 min)
- ZOMG (15 min)
- FAIL/FTW (15 min)

WTF

- Architecture
- Design Patterns
- Models
- 3-tier
- MVC
- Separation of concerns
- KISS/DRY



WTF?!



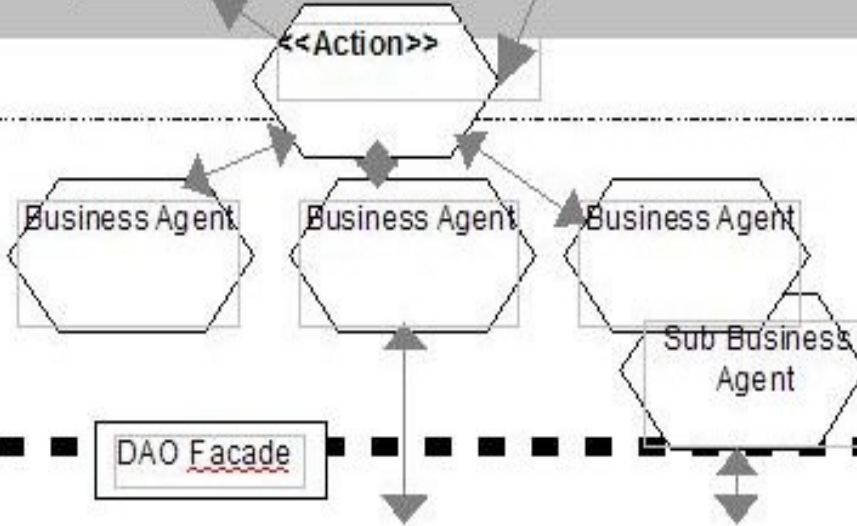
WTF?!

Browser

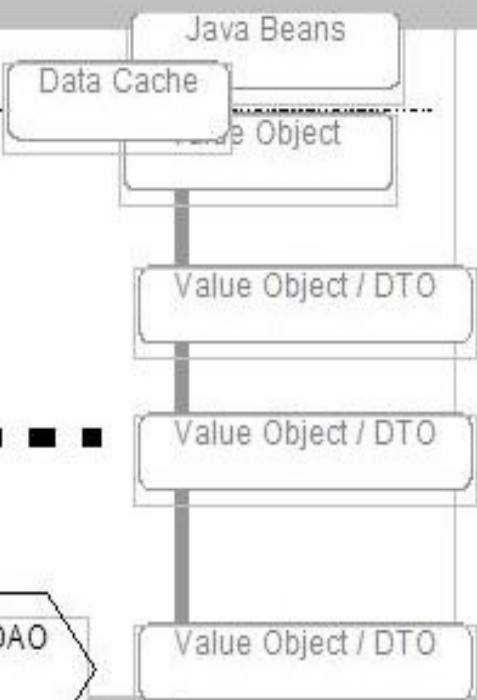
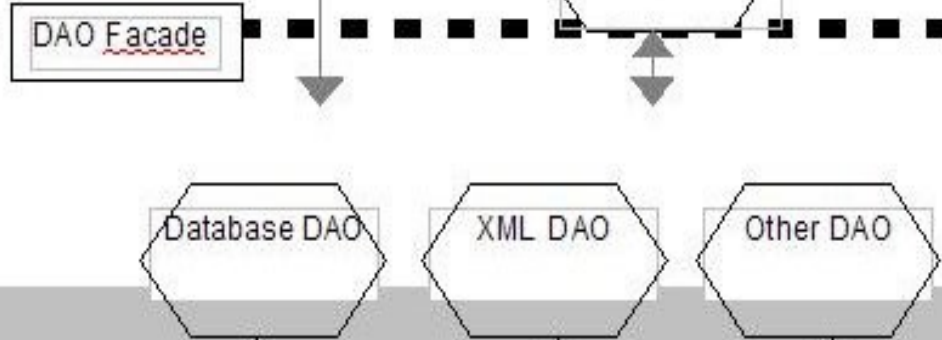
Presentation Layer
(Struts Model-View-Controller Pattern)



Business Layer



Service Layer
(Data Access Object - DAO Pattern)



Server

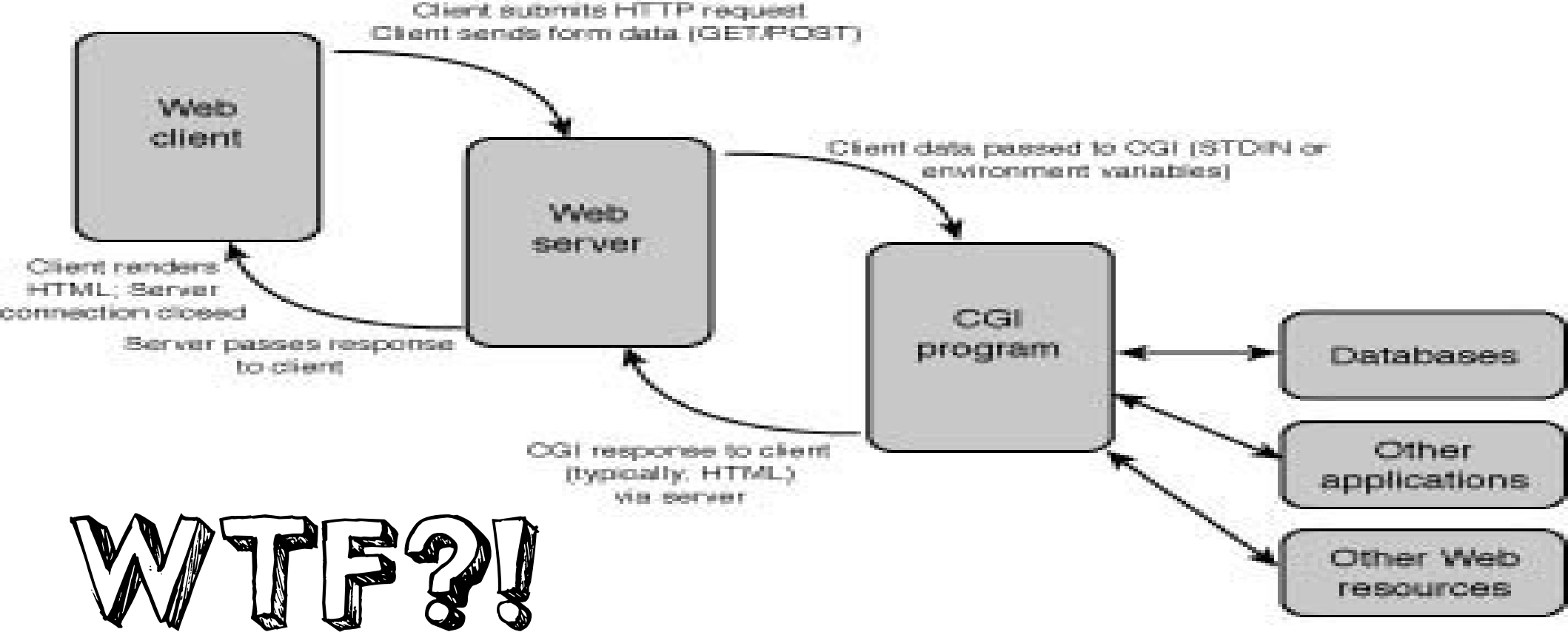
Back End

```
<?
$dbc=odbc_connect("gbook","","");
if (!$dbc)
{exit("Connection Failed: " . $dbc);}
$query="SELECT * FROM comments";
$rs=odbc_exec($dbc,$query);
if (!$rs)
{exit("Error in SQL");}
echo '<h3>MS Access powered Guest Book</h3>';
while (odbc_fetch_row($rs))
{
    $e_name=odbc_result($rs,"name");
    $comment=odbc_result($rs,"comment");
    $e_date=odbc_result($rs,"entry_date");

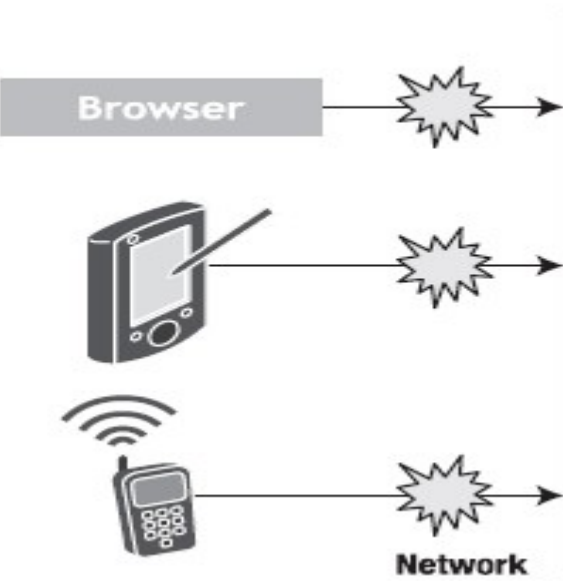
    echo '<b>Name:</b>'. $e_name. '<br>';

    echo '<b>Comments:</b> ' . $comment. '<br /> <b>Date:</b> ' . $e_date. '<br />
<hr/>';
}
odbc_close($dbc);
echo "</table>";
?>
```

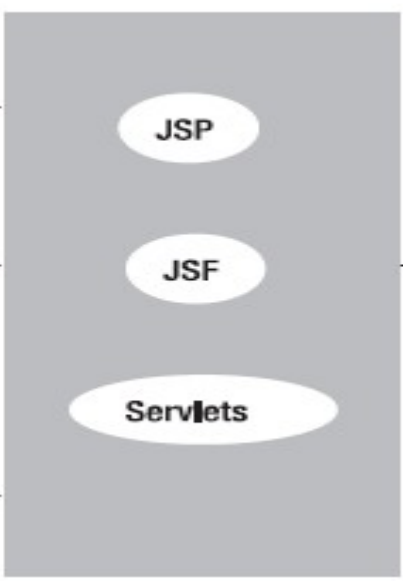
WTF?!



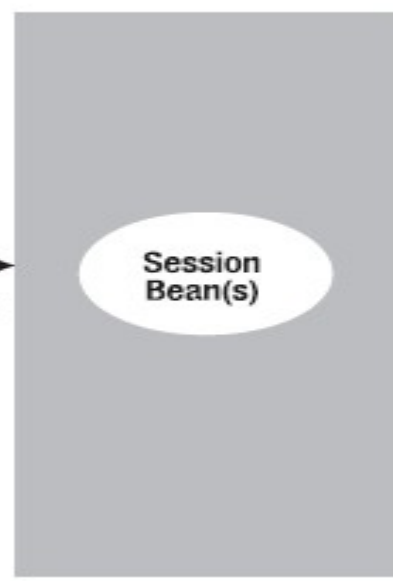
Web Application



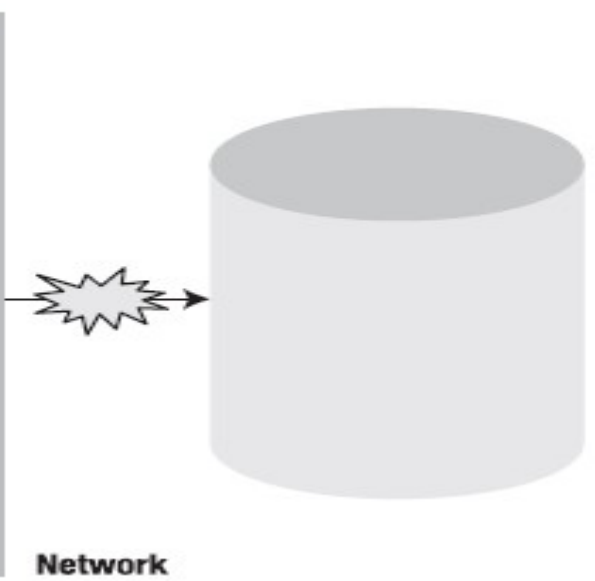
Web Container



EJB Container



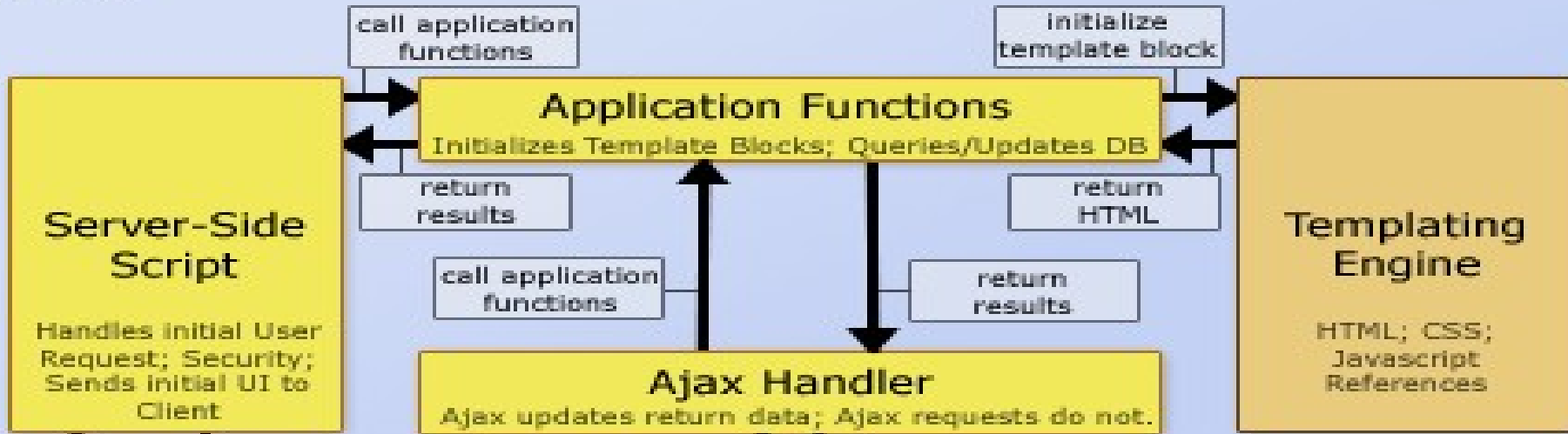
Database



Remote

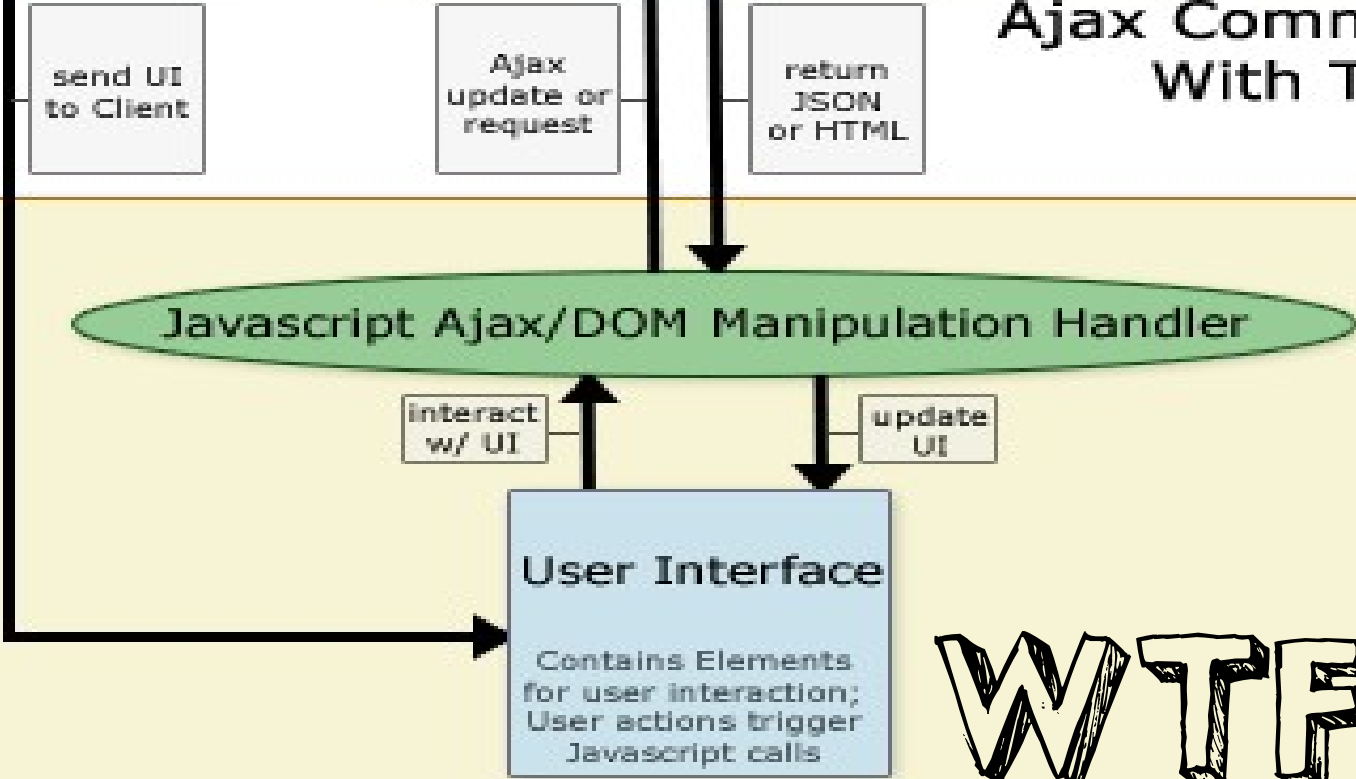
Network

Server



Ajax Communication With Templating

Client



WTF...?

RTFM

"Javascript will save us all"

- JS on the client
- JS on the server
- JS on the DB
- Functional goodness
- JSON all the way down
- REST all the way down

RTFM

Javascript on the server

- Pure (SpiderMonkey, V8, Squirrelfish)
- Rhino/JVM (Jaxer, AppJet, IOgen)

Javascript on the DB

- CouchDB (JS views)
- Other OO/XML/doc oriented DBs

RTFM

Pure (Spidermonkey)

- jslibs
- jsexp
- jsdb
- No standards!
- Killer app/Rails
- Opportunity/JBoss2015

RTFM

Javascript on the server

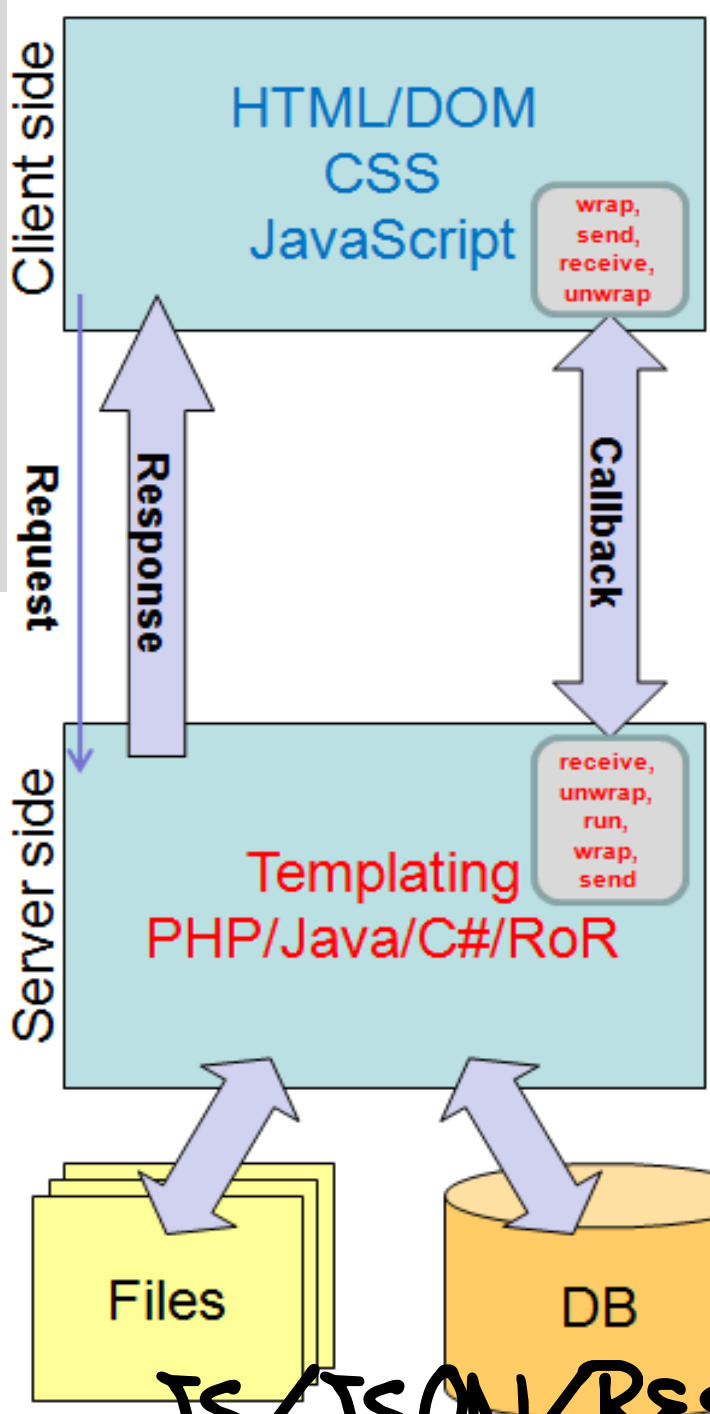
ZOMG!

Server side Javascript Web Framework

- Standard API (file I/O, etc)
- JS based JSON doc DB
- JS appserver
- Pure HTML templating

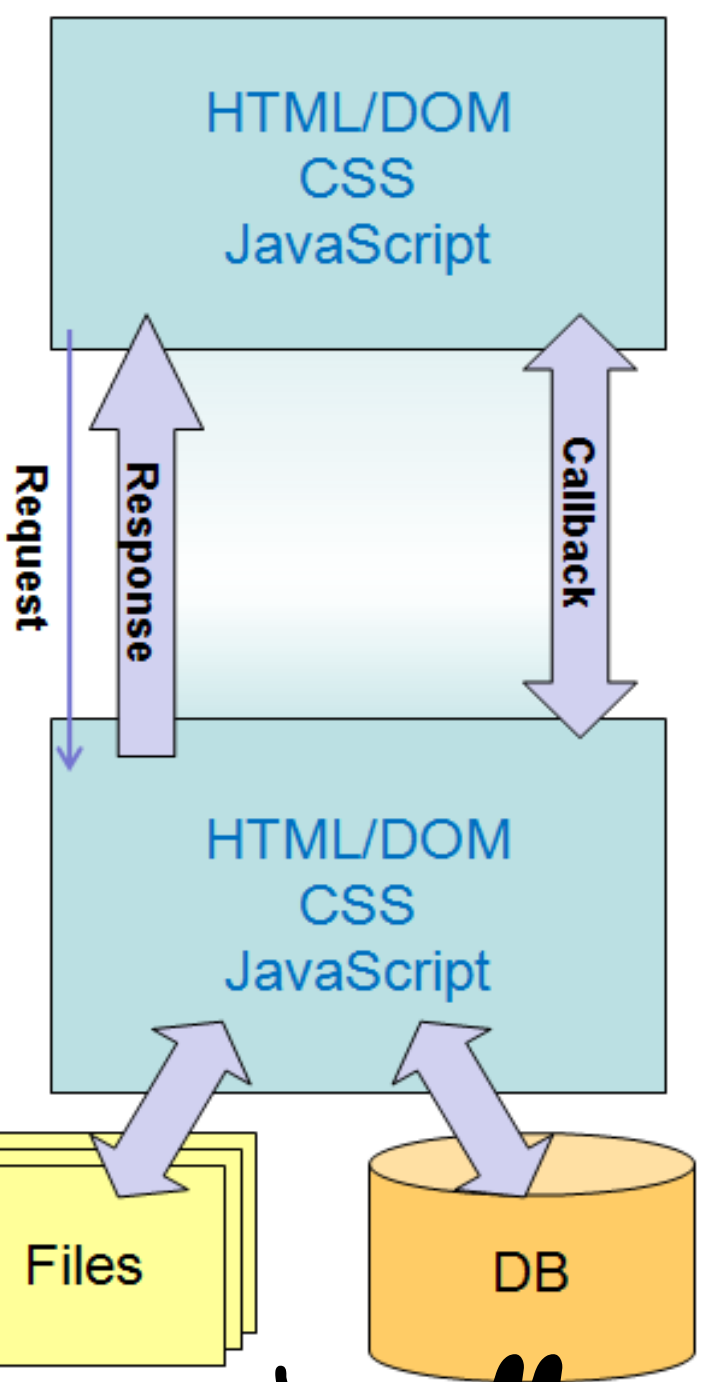
Traditional Application Stack

W
T
F
?!



JS Application Stack

Z
O
M
G
!

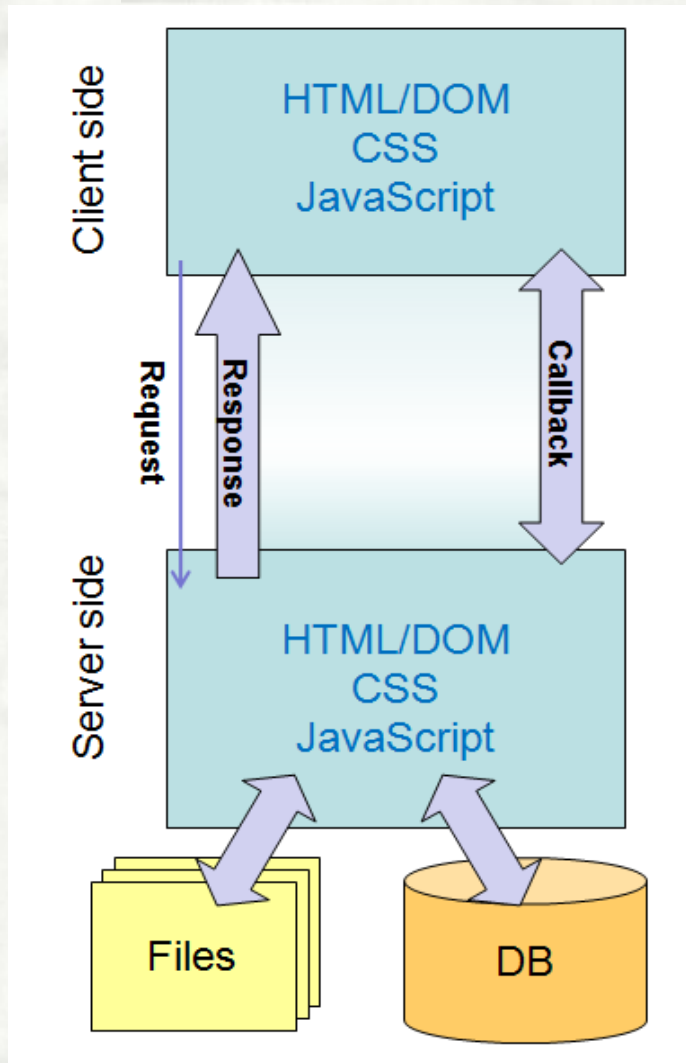


JS/JSON/REST all the way down!!

ZOMG!

A Future JS Web Framework

Introducing
STARBUCKS



BRANCA (HTML templating)

CIMBALINO (API/web/appserver)

BICA (JSON storage)

FIM

FAIL/FTW ?

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