

Creating a basic Web2.0-application with XHTML, CSS, JavaScript and PHP

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What to expect

- Some necessary concepts
- Walk-through development of an exemplary app
- Basic introduction to the used languages
- Hopefully: “It's easy!”
- Hopefully: “It's fun!”

What NOT to expect

- Thorough introduction of the used languages
- Advanced techniques
- “Classic” slideshow lecture

Agenda

- Technology basics
 - Client vs server
 - Mini intro to the languages used
 - ~~Apache webserver quick guide~~ → use `.public_html`
- Creating a web page:
 - Mockup
 - HTML structure
 - JavaScript functions
 - CSS styles
 - [PHP content generation]

Technologies

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Technologies

XHTML, CSS, JavaScript and PHP

Web page **structure**



Web page **style**



Web page **function**



Content **generation**



Technologies

Evaluated on
Client

Evaluated on
Server

XHTML, CSS, JavaScript and PHP

Web page **structure**

Web page **function**

Web page **style**

Content **generation**



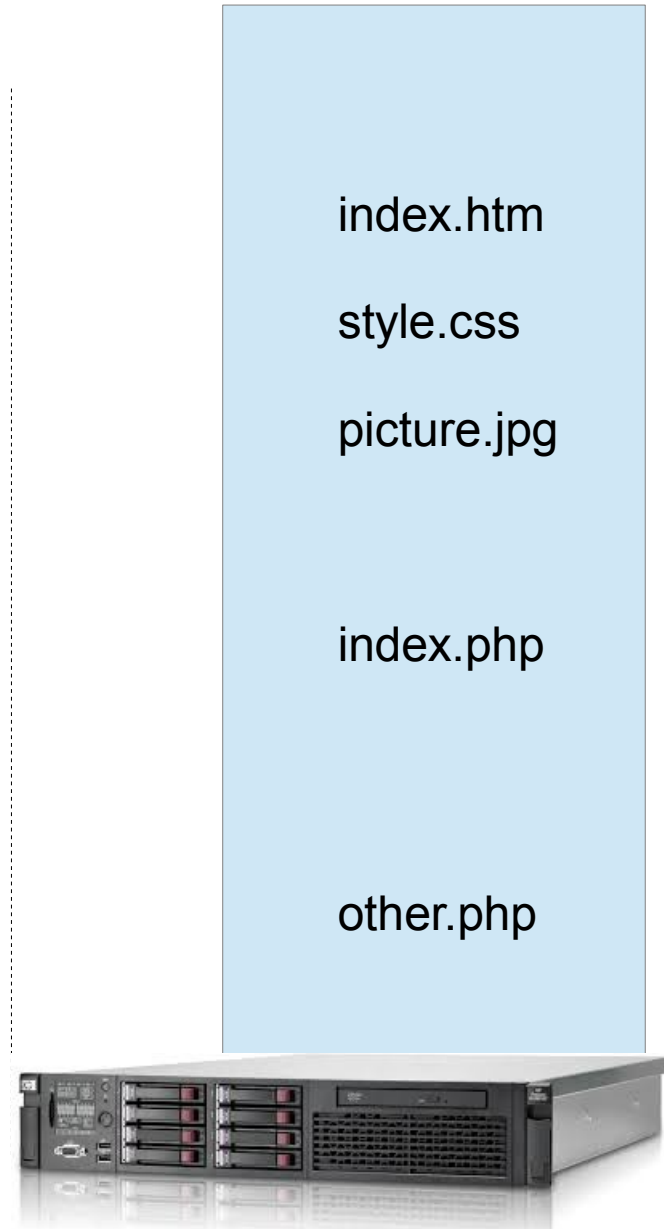
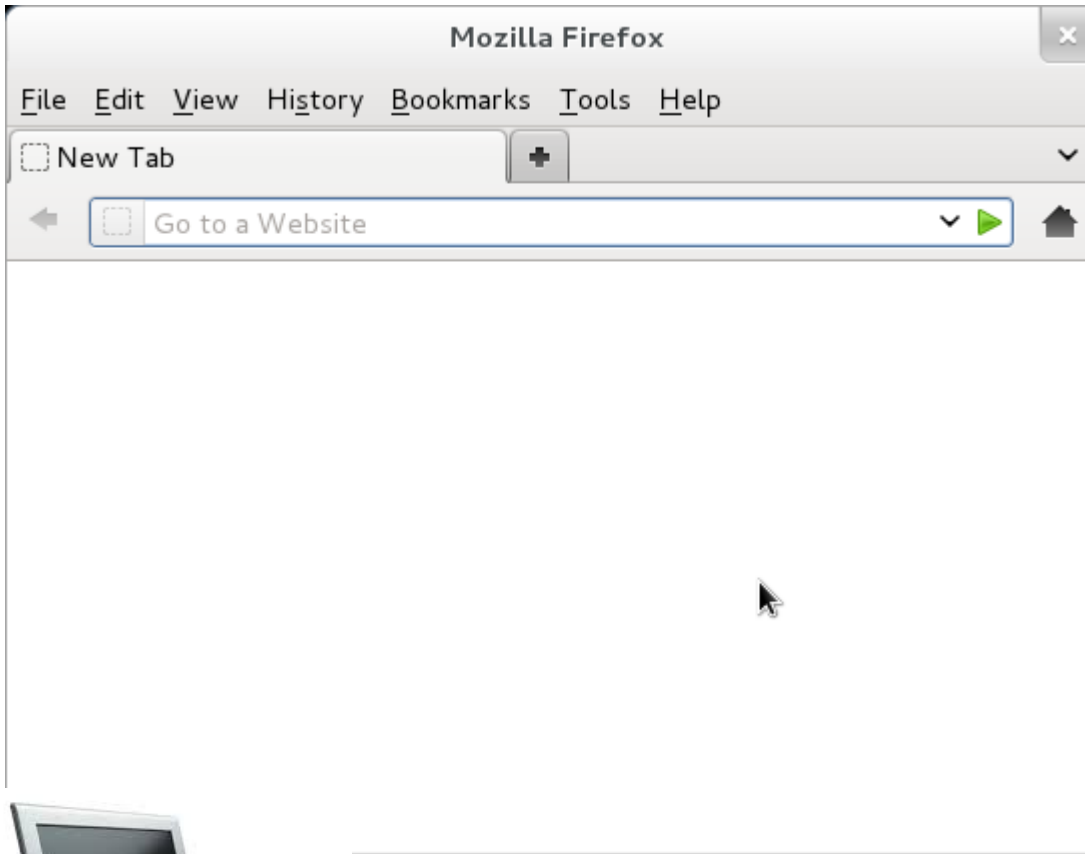
Client vs Server

**Evalutated on
Client**

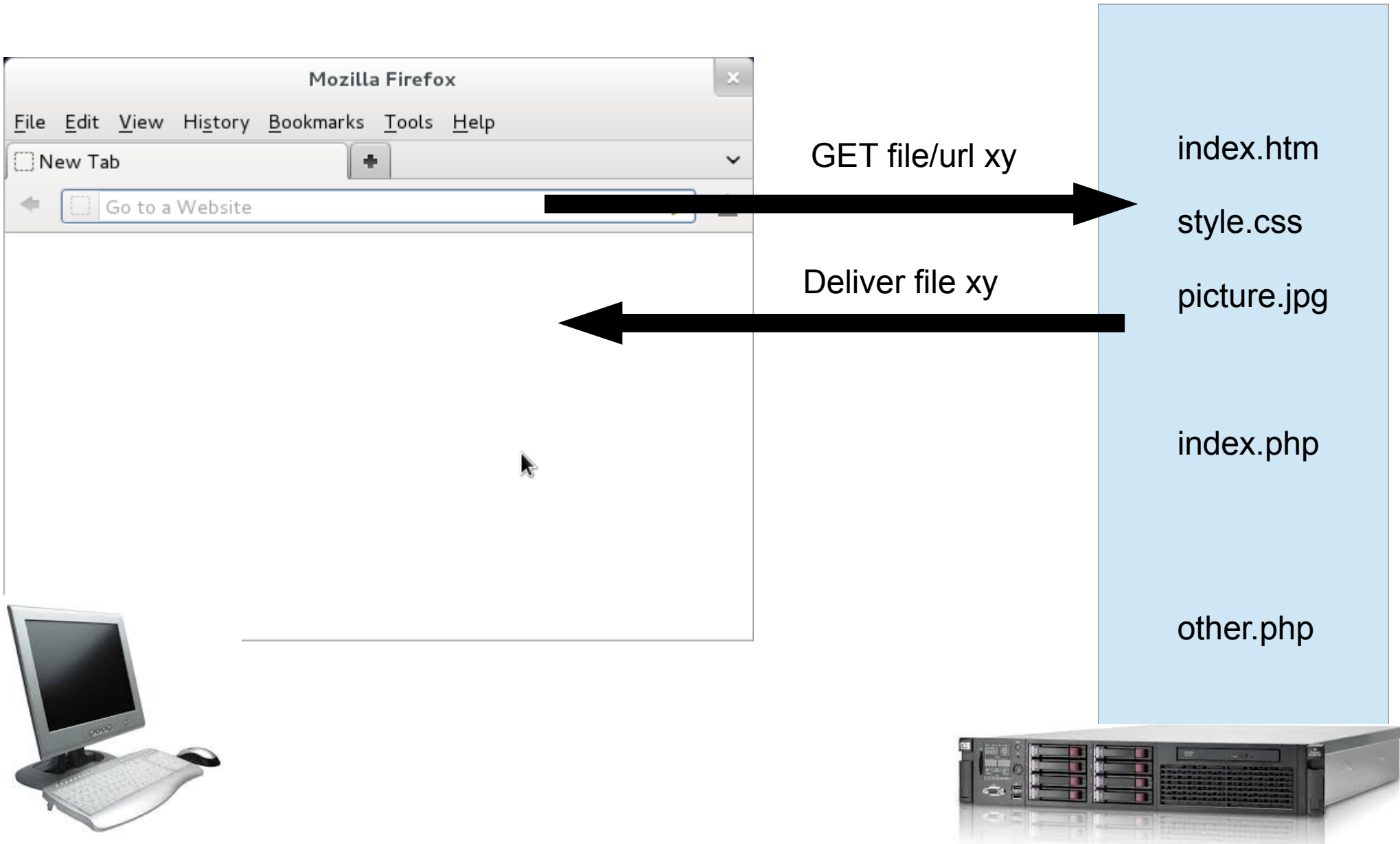
**Evaluated on
Server**



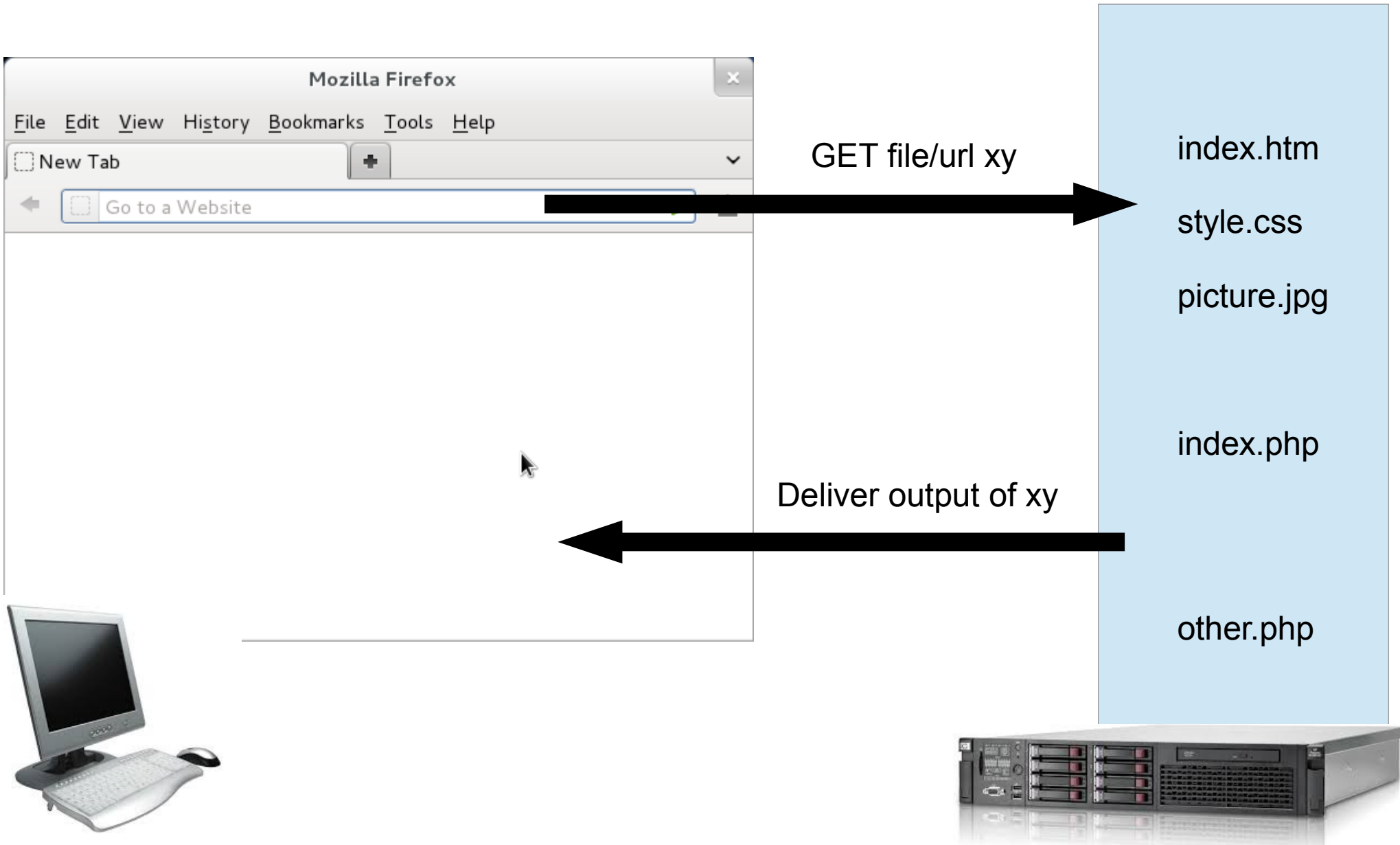
Client vs Server



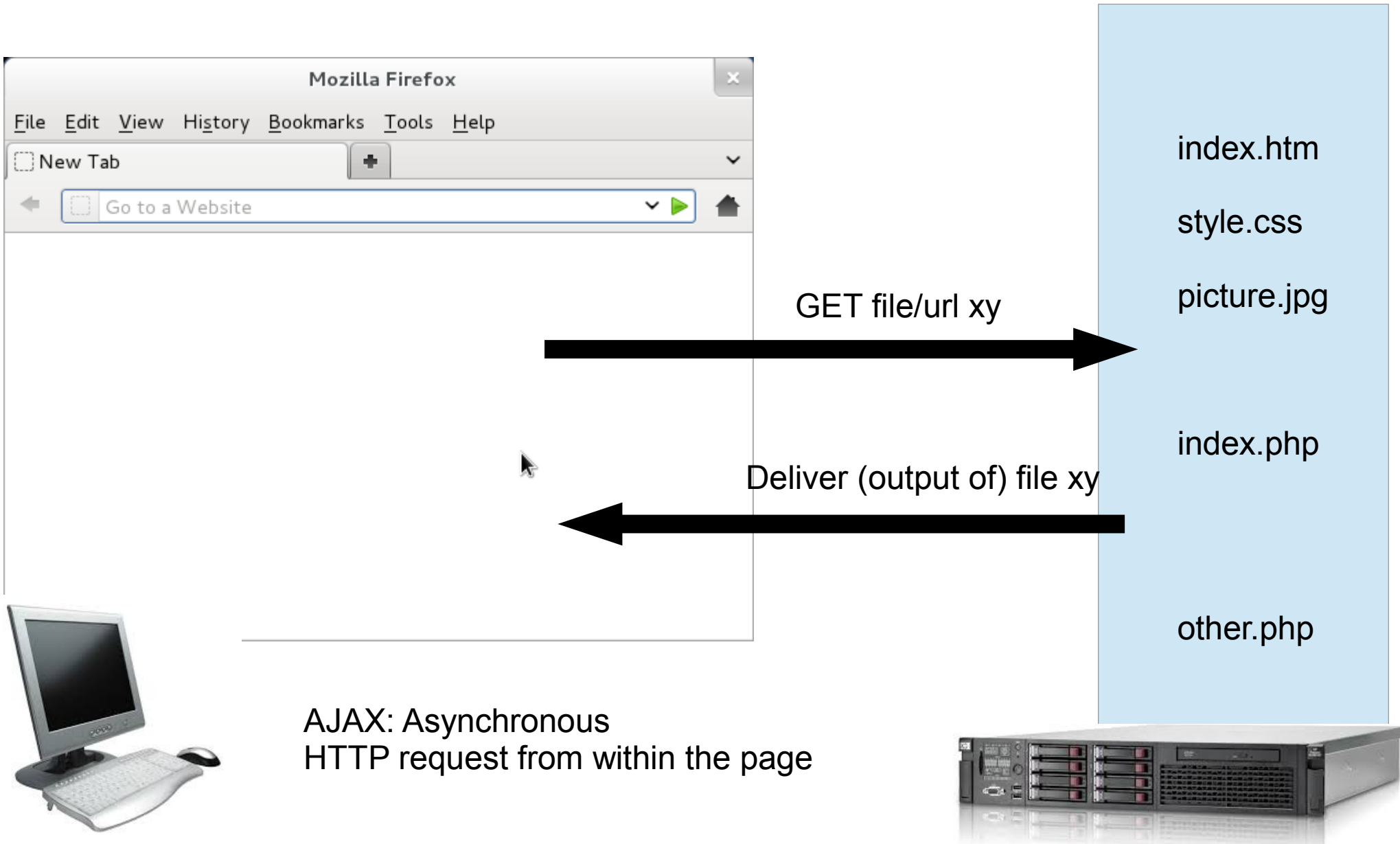
Client vs Server



Client vs Server



Client vs Server : AJAX



AJAX: Asynchronous
HTTP request from within the page

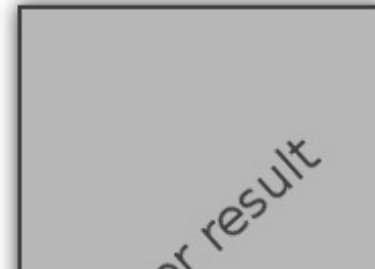
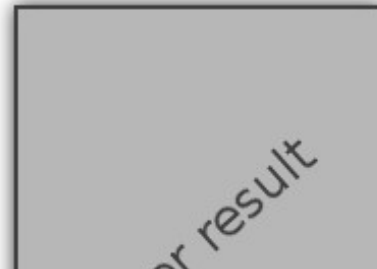
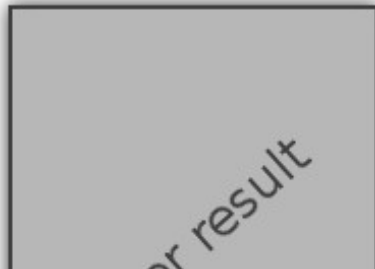
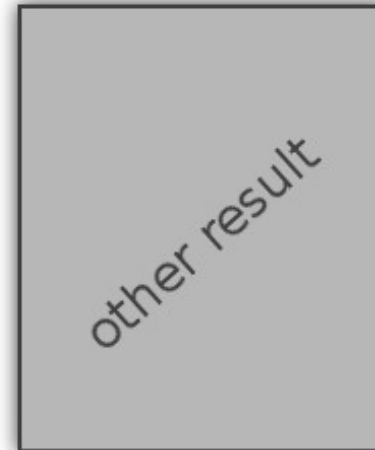
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What you need

- An idea
- Graphics software for a mockup
 - or pen and paper
- Web server [with PHP]
 - Apache, lighttpd, nginx, Tomcat (Java)...
- Text editor
 - vim, emacs, notepad, ...
 - Or WYSIWYG
- Browser
 - Firefox, Chrome, Opera, Safari, Internet Explorer

Name-A-Face

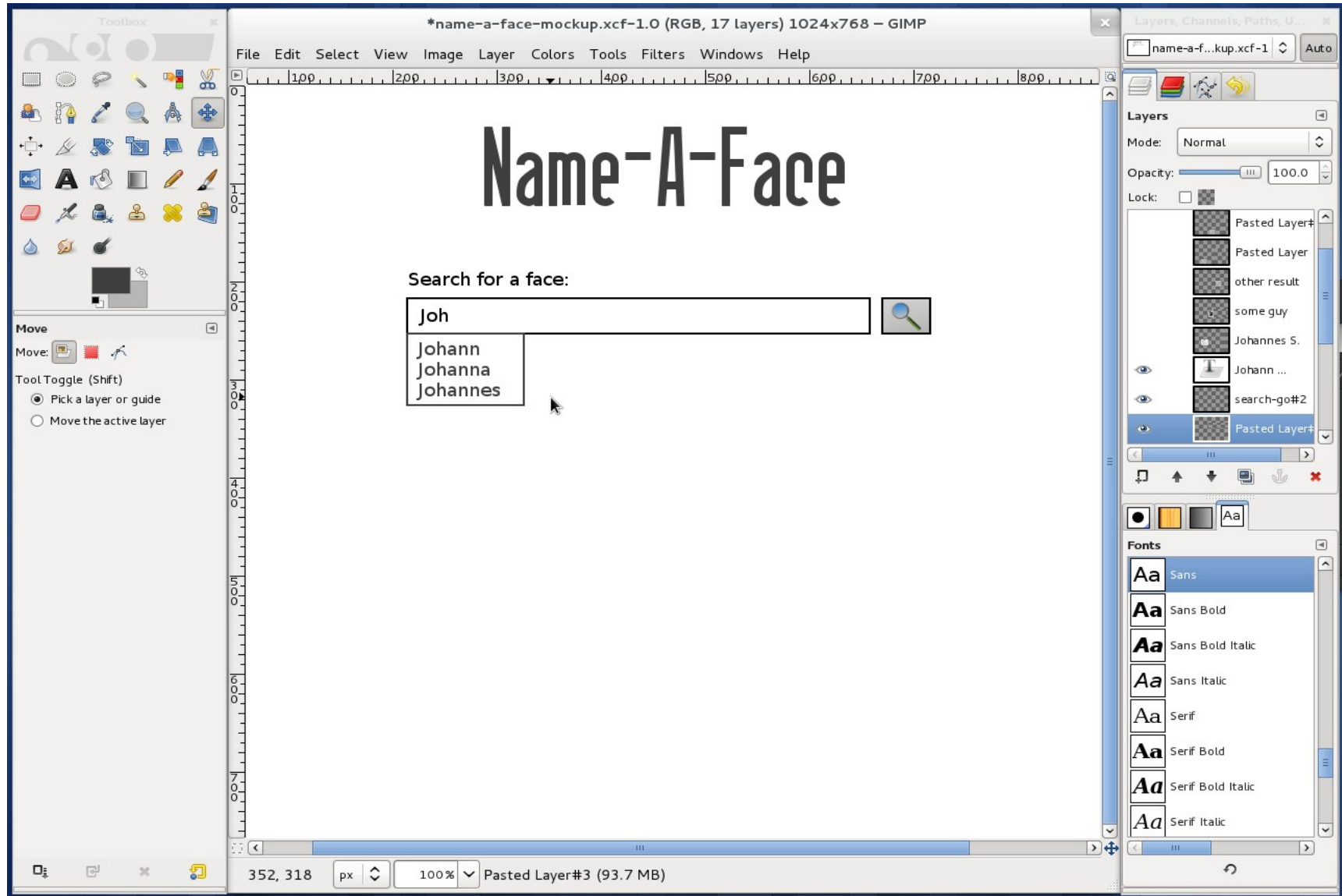
Search for a face:



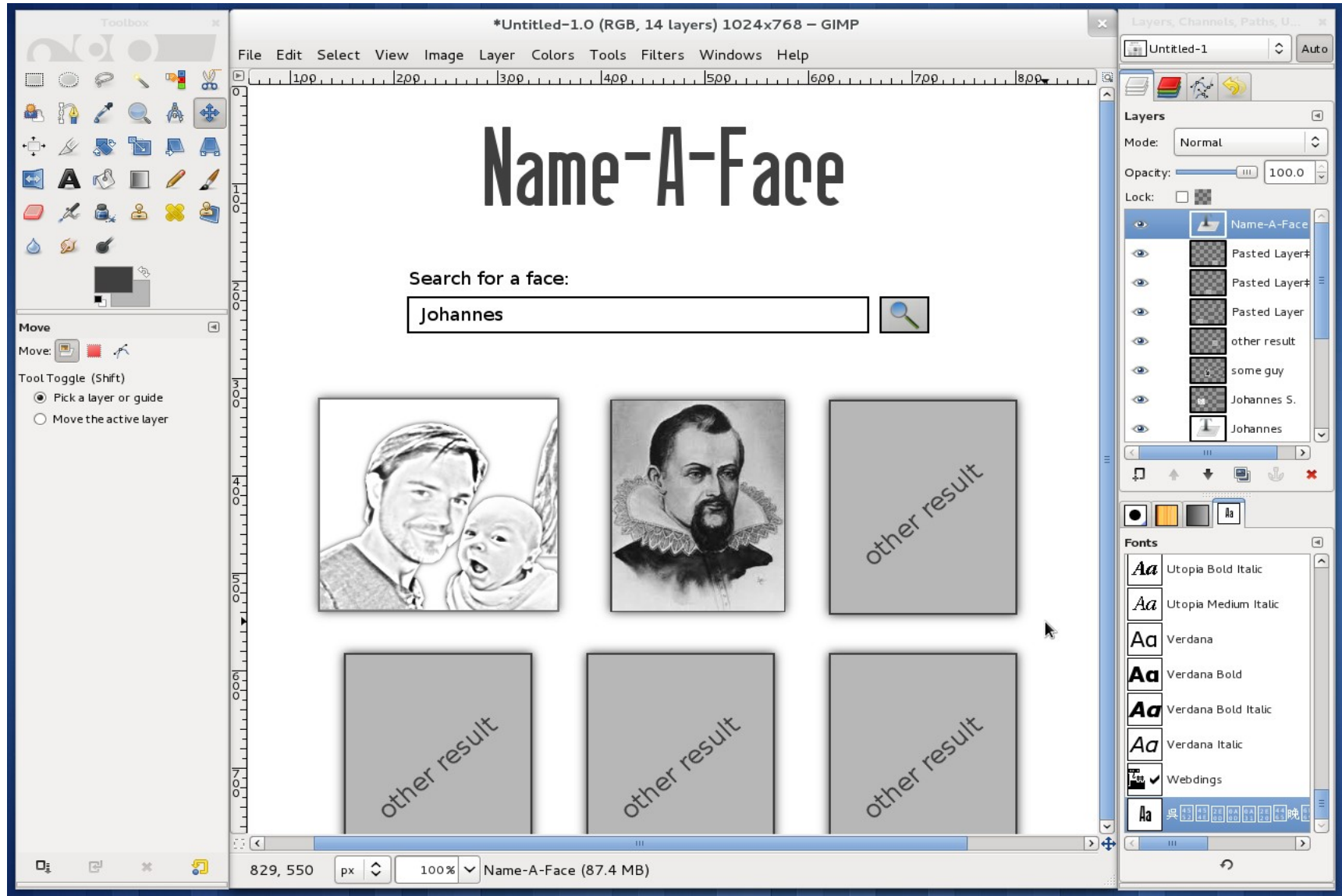
Create a Mockup



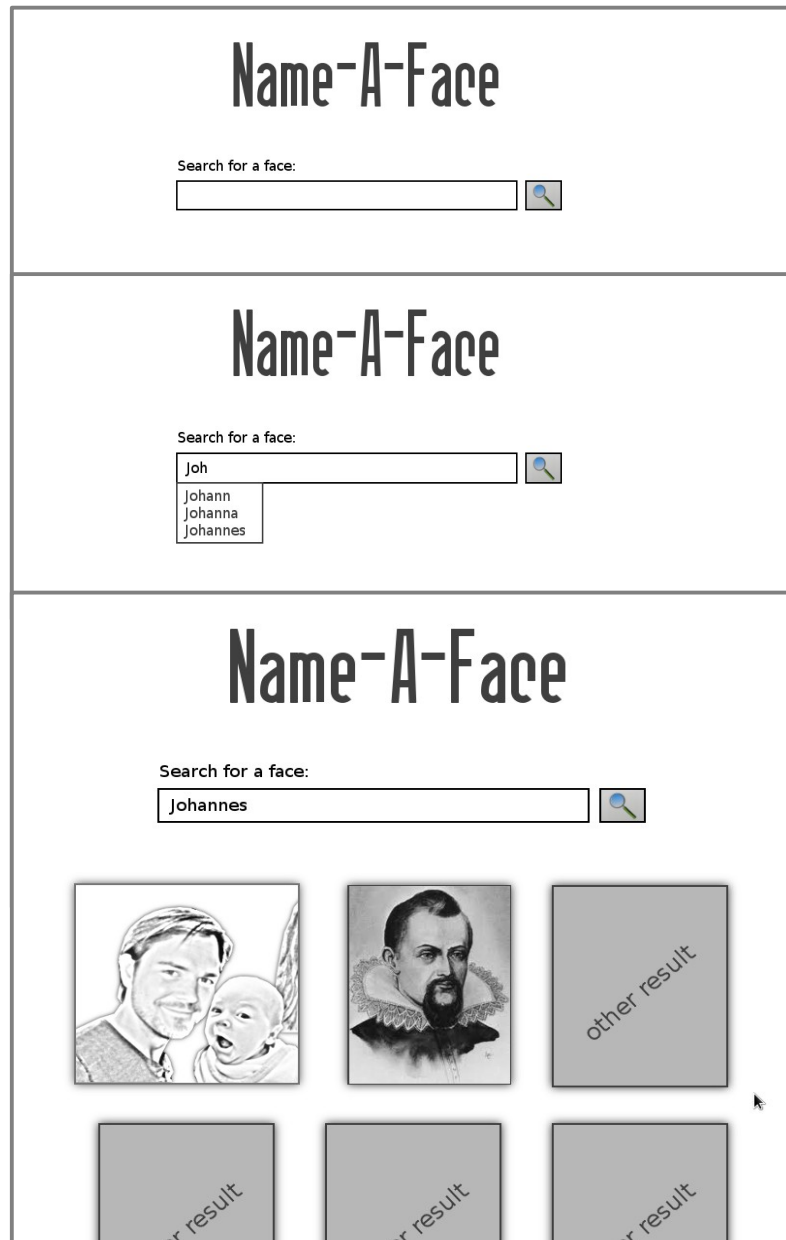
Create a Mockup



Create a Mockup

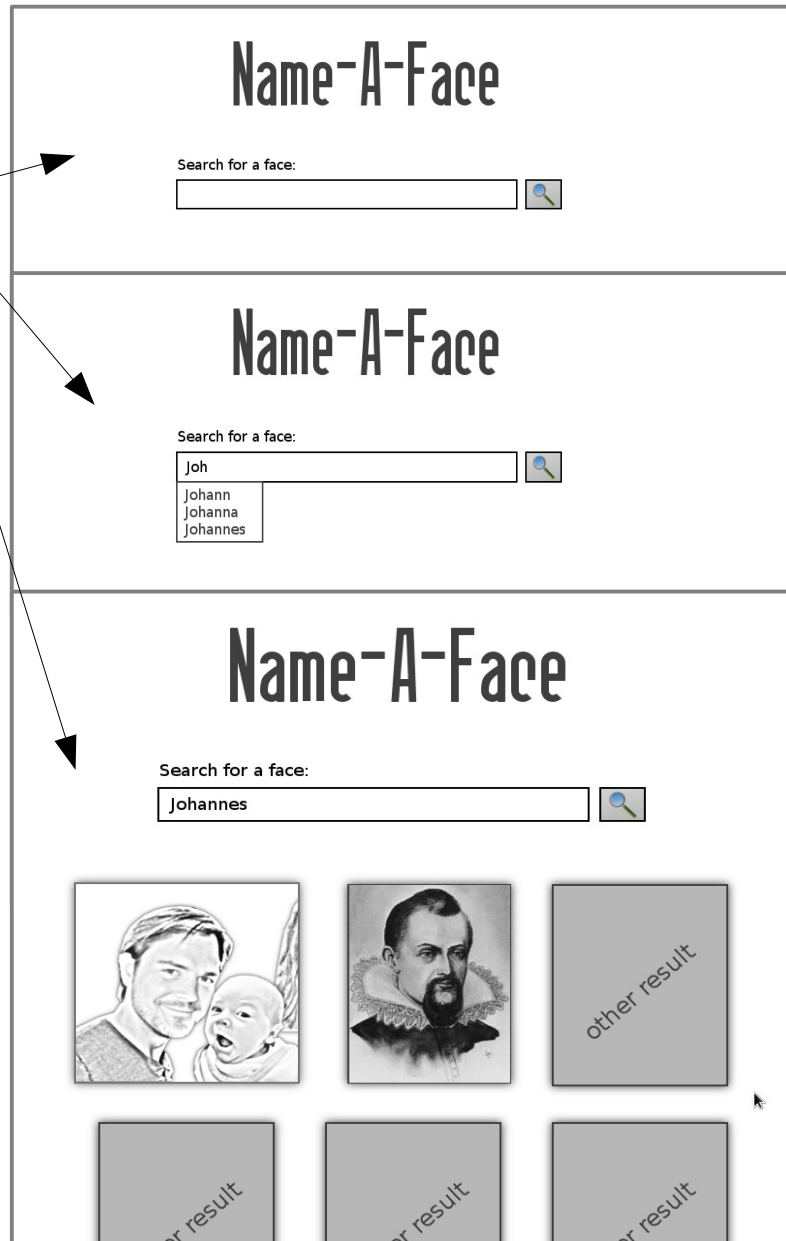


Where's all the technology?

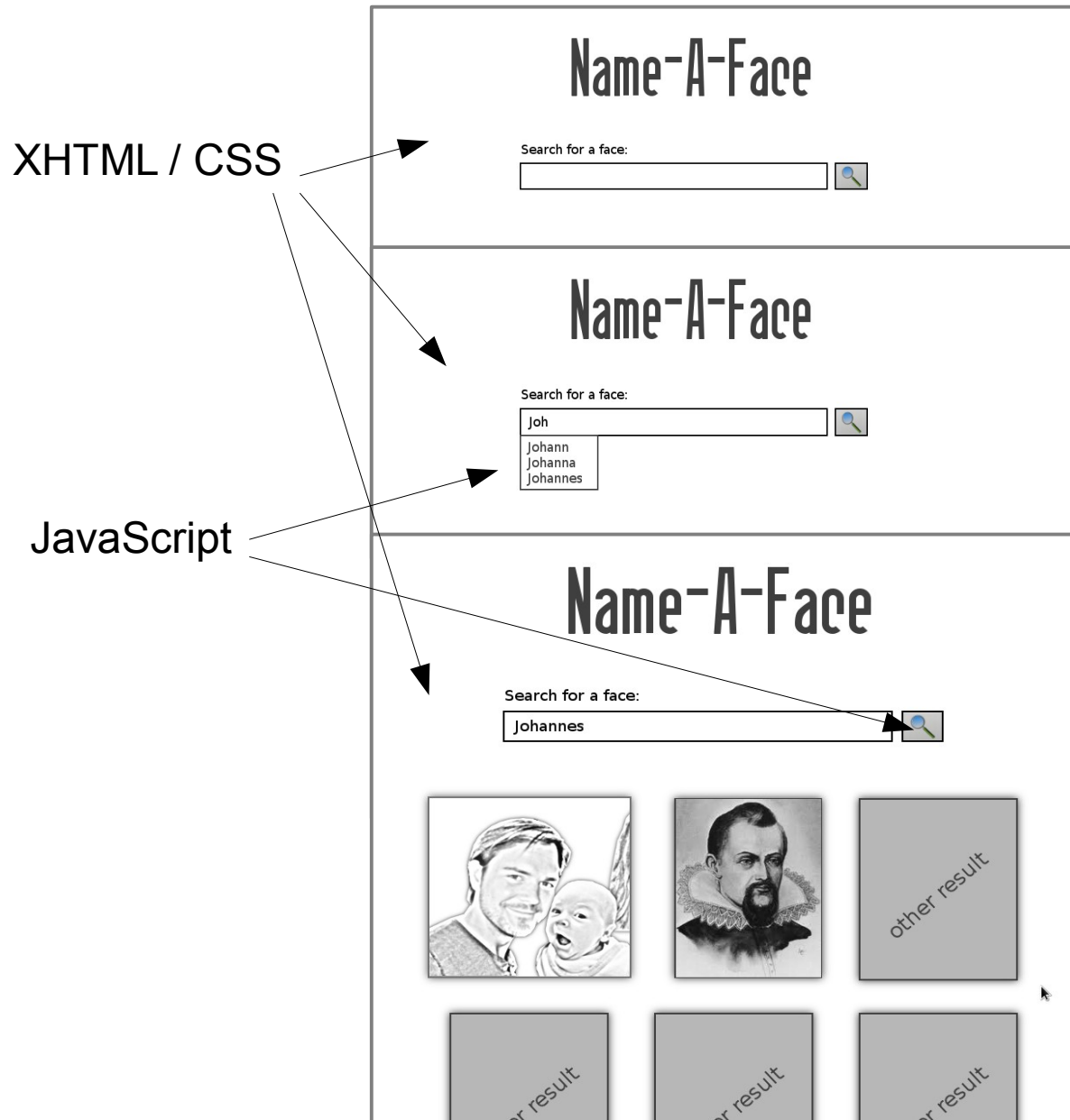


Where's all the technology?

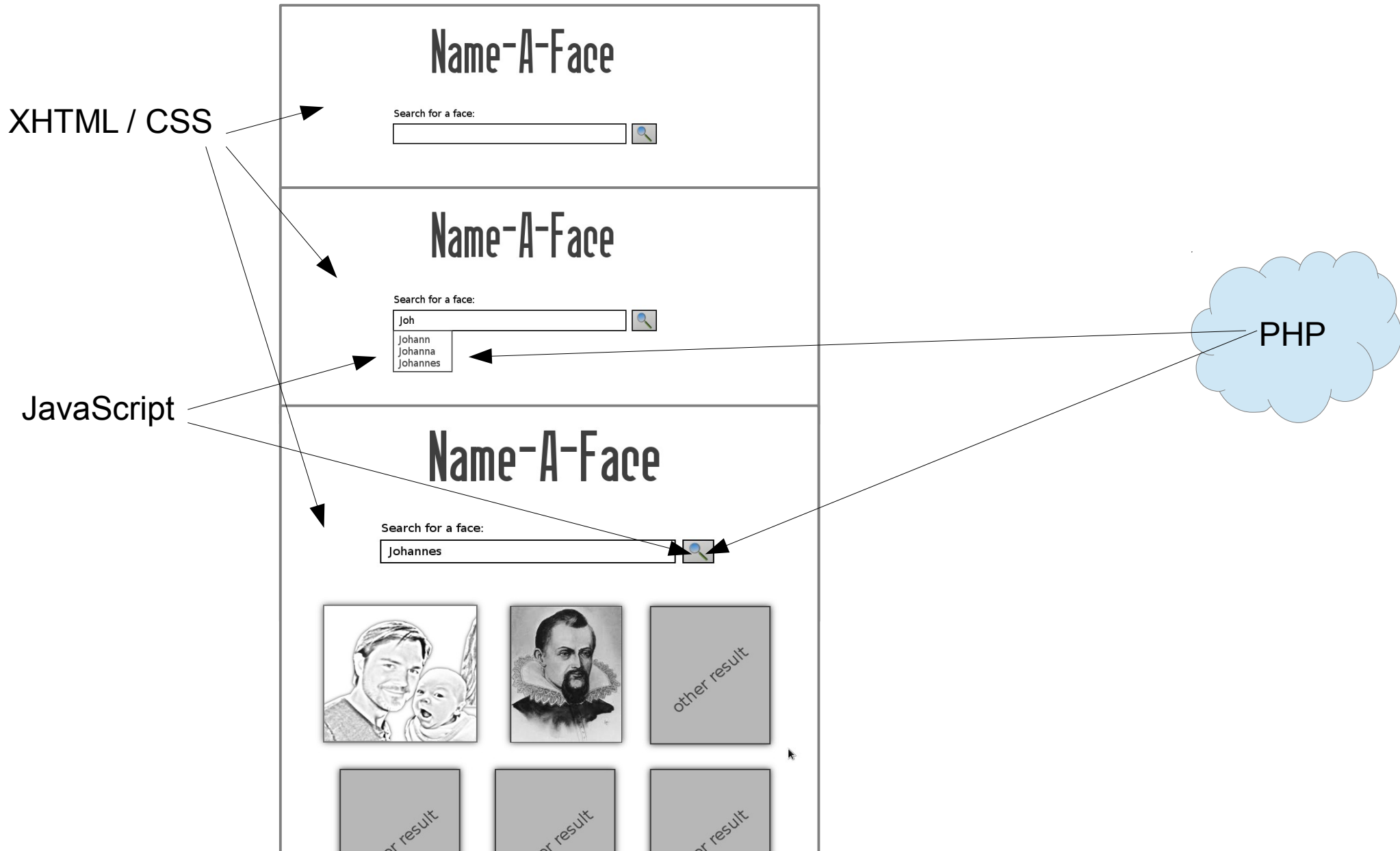
XHTML / CSS



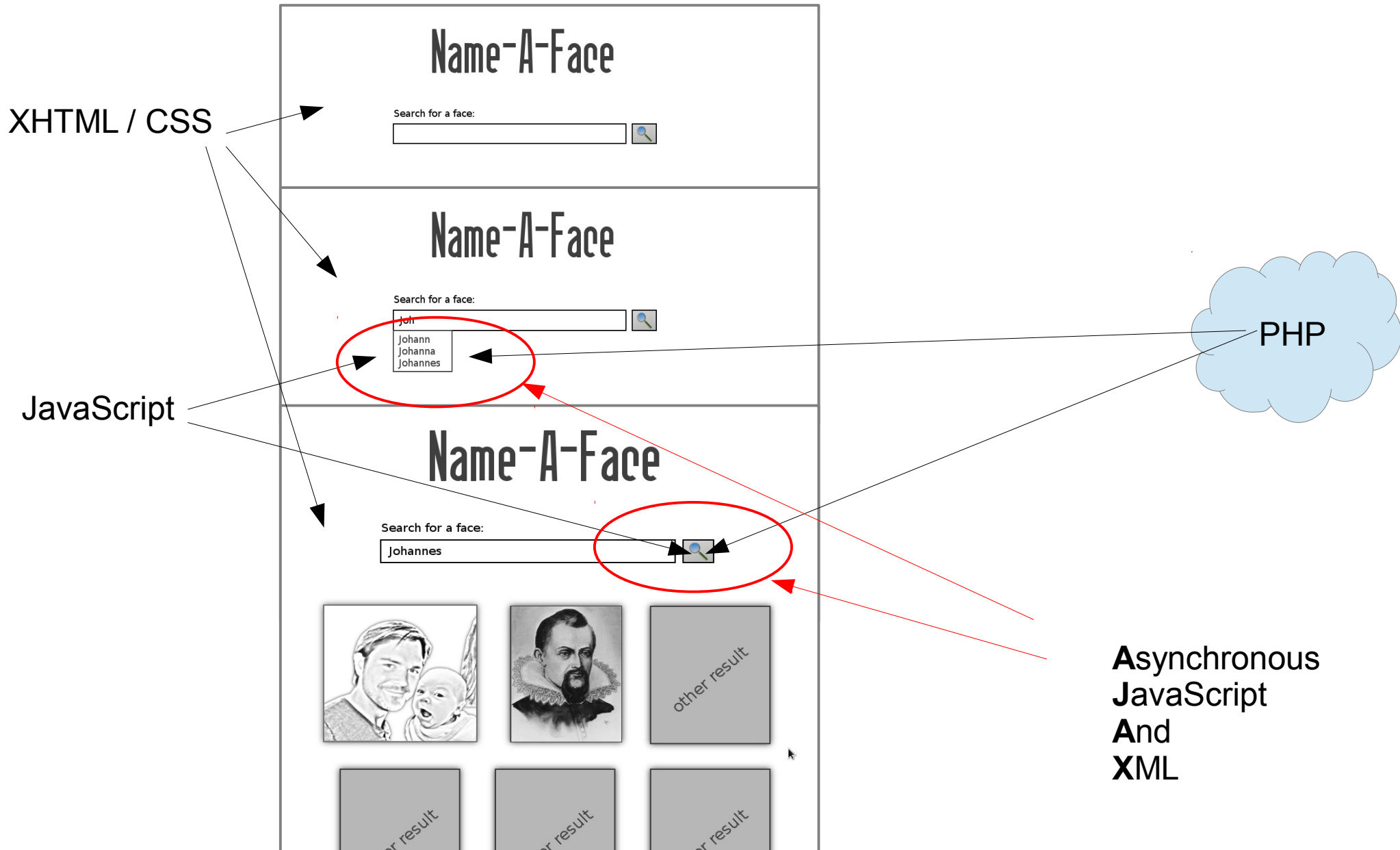
Where's all the technology?



Where's all the technology?








Where's all the technology?








Project Overview

- Basic page with search form
 - Styles for the page
 - Functionality incl. AJAX
 - Searching
- Autocompletion Suggestions

Name	Type
 index.html	HTML document
 name_a_face.css	CSS stylesheet
 name_a_face.js	JavaScript program
 search.php	PHP script
 suggest.php	PHP script

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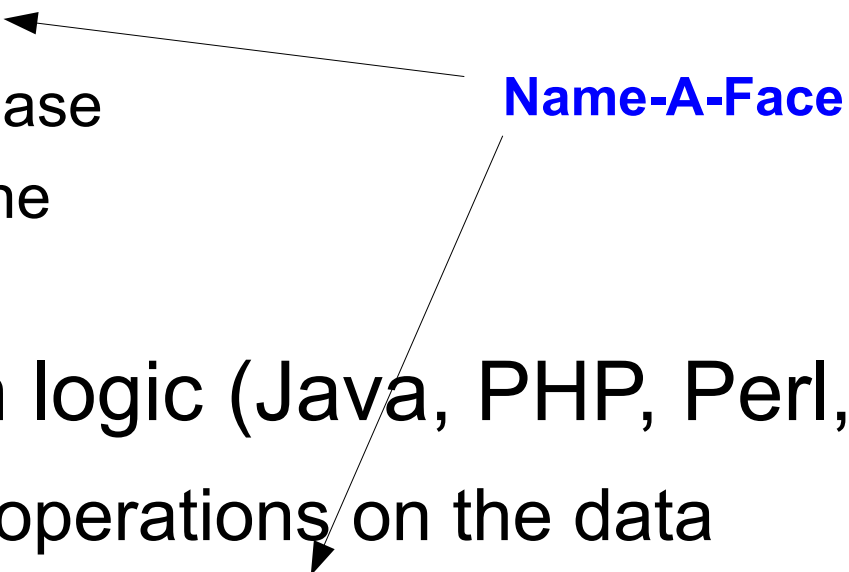
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→ let's have a look at the code

Web App – Server Side

- Data
 - Store
 - As files
 - In database
 - In Lucene
 - In cloud
- Application logic (Java, PHP, Perl, etc)
 - Provides operations on the data
 - CRUD: Create, Read, Update, Delete

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- 

Where to go from here

- Play!
- .public_html
 - In your home directory
 - Can do PHP
 - URL: <http://www.informatik.hu-berlin.de/~username>
- <http://de.selfhtml.org>
- <http://www.google.de>