

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
 - PHP content generation
 - CSS styles

Technologies

Creating a basic

Web2.0-application with

XHTML, CSS, JavaScript and PHP

Technologies

XHTML, CSS, JavaScript and PHP

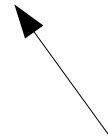
Web page **structure**



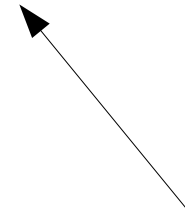
Web page **style**



Web page **function**



Content **generation**



Technologies

Evaluated on
Client

Evaluated on
Server

XHTML, CSS, JavaScript and PHP

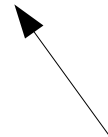
Web page **structure**



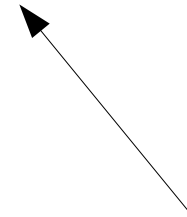
Web page **style**



Web page **function**



Content **generation**

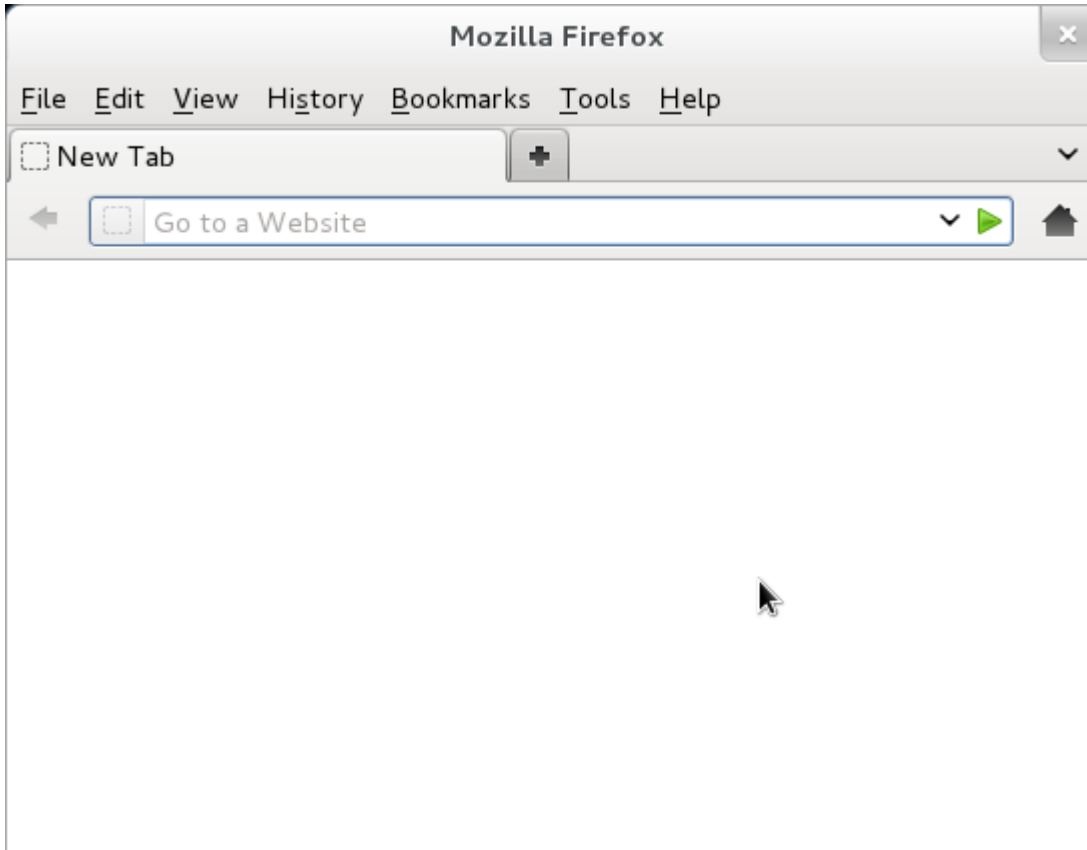


Client vs Server

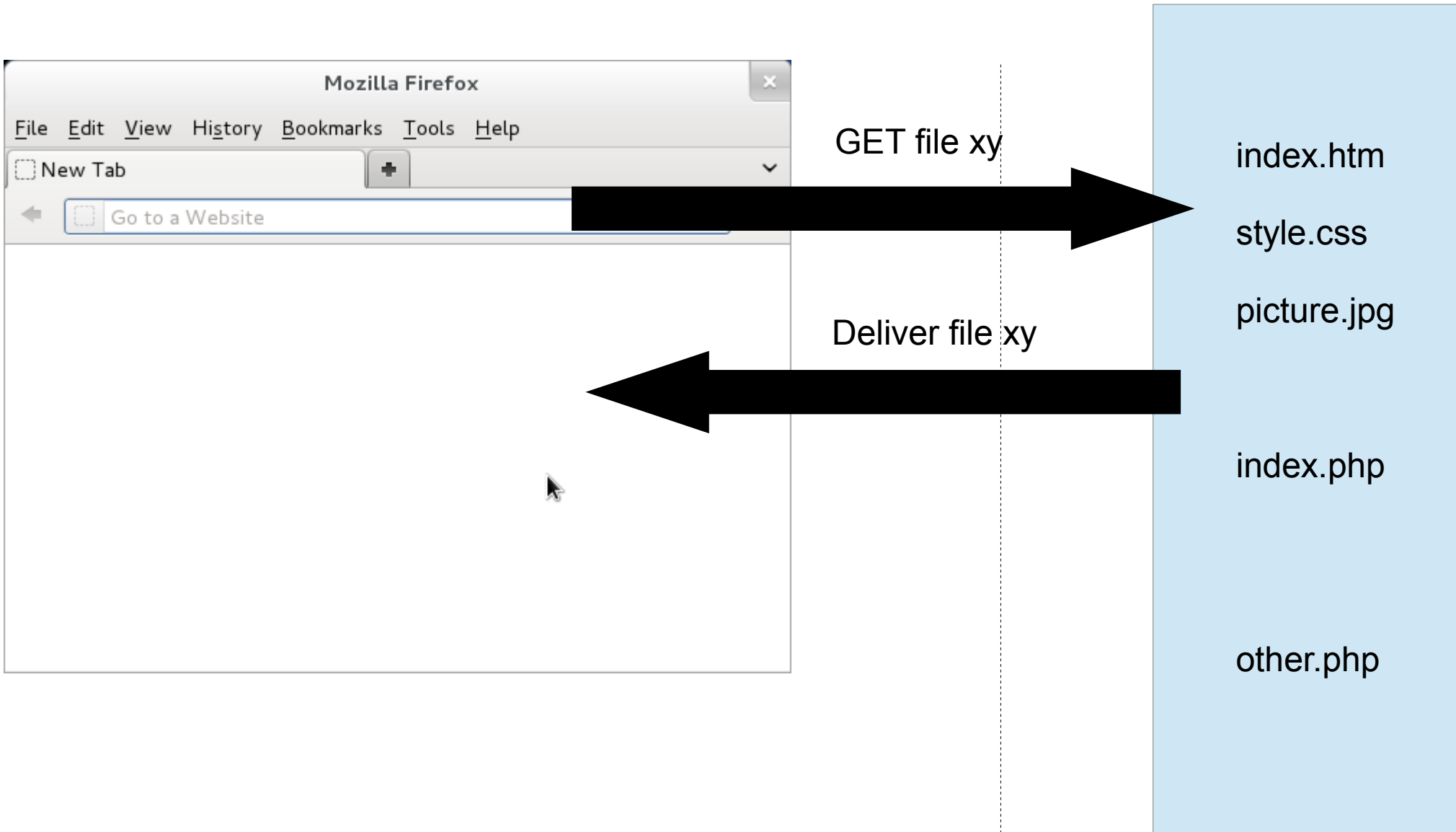
**Evalutated on
Client**

**Evaluated on
Server**

Client vs Server



Client vs Server



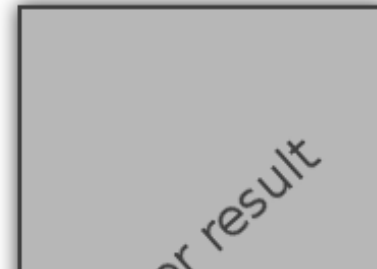
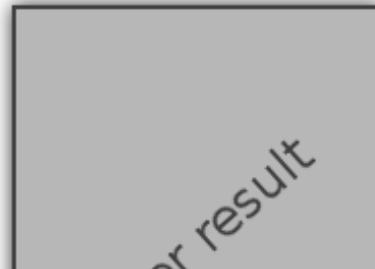
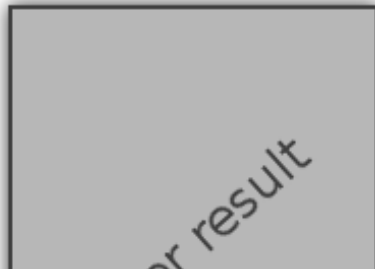
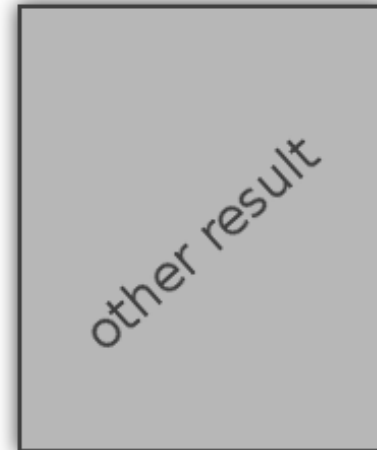
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What you need

- An idea
- Graphics software
 - or pen and paper
- Web server with PHP
 - Apache, lighttpd, nginx, ...
- Text editor
 - vim, emacs, notepad, ...
 - Or WYSIWYG
- Browser
 - Firefox, Chrome, Opera, Safari, Internet Explorer

Name-A-Face

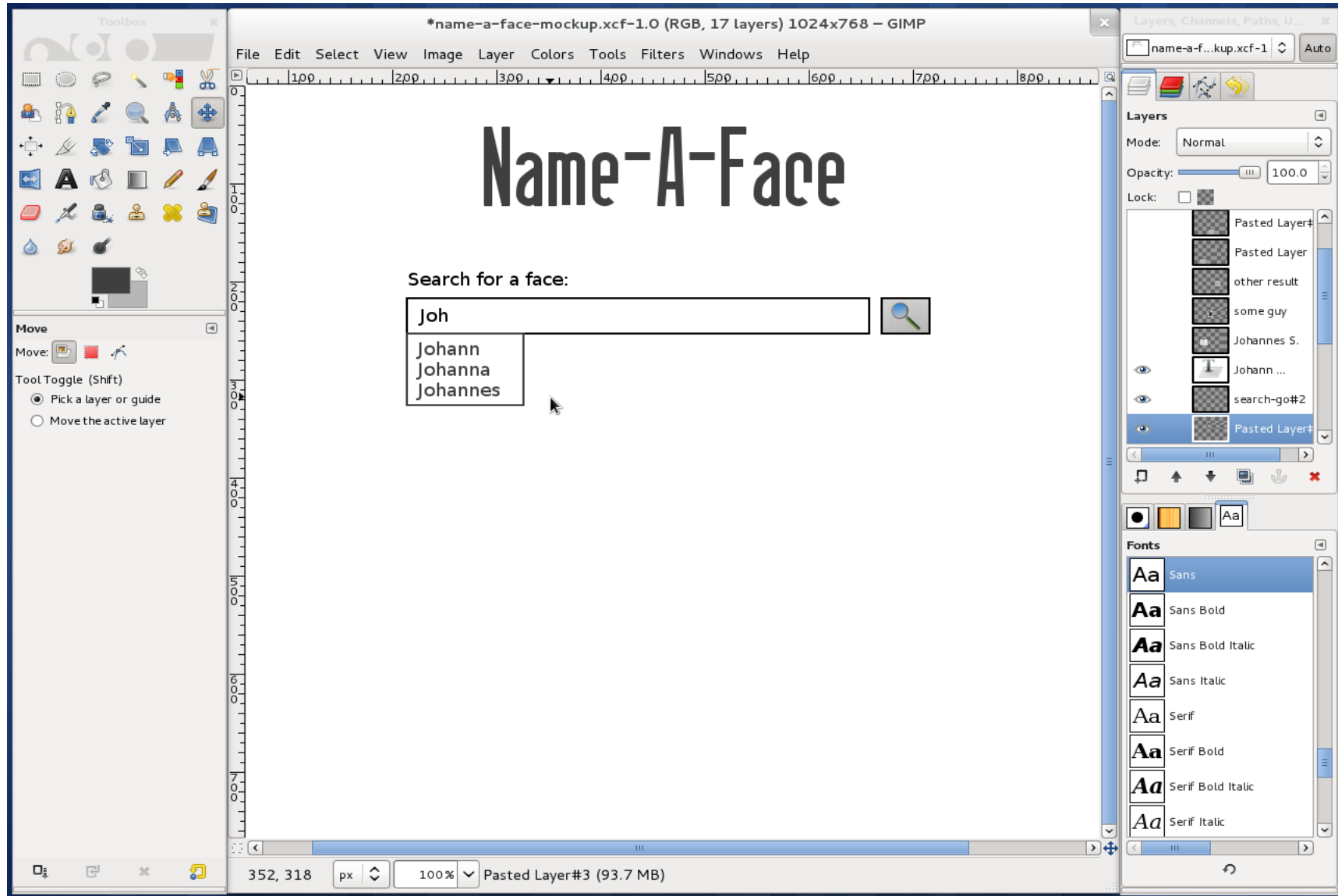
Search for a face:



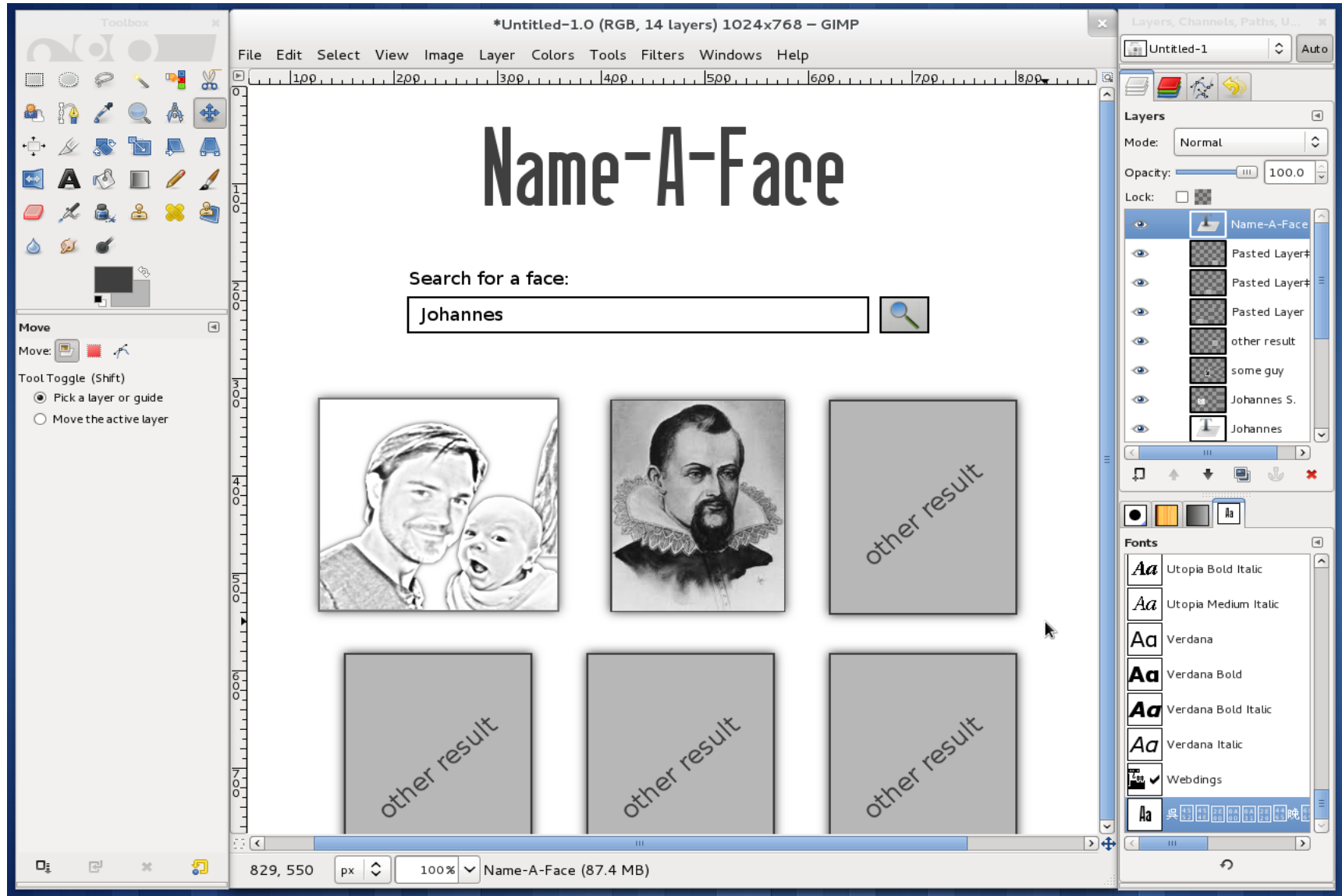
Create a Mockup



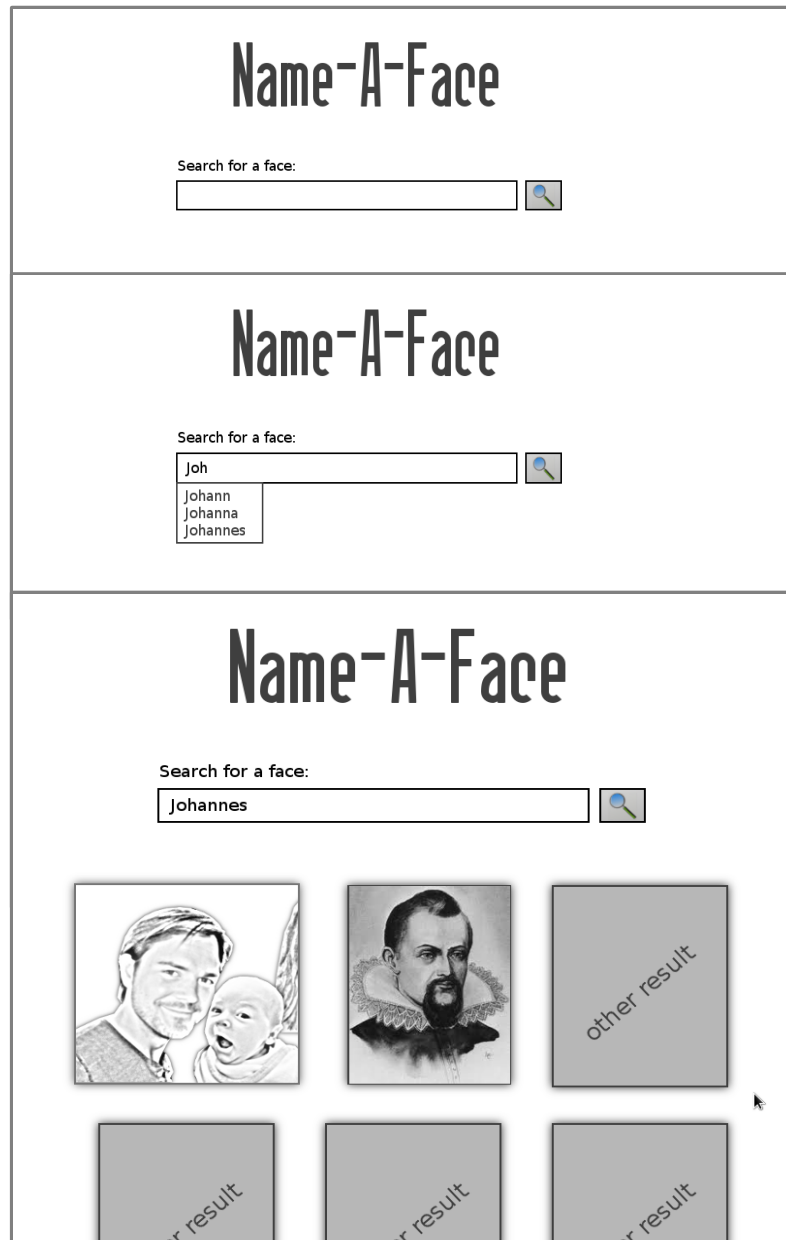
Create a Mockup



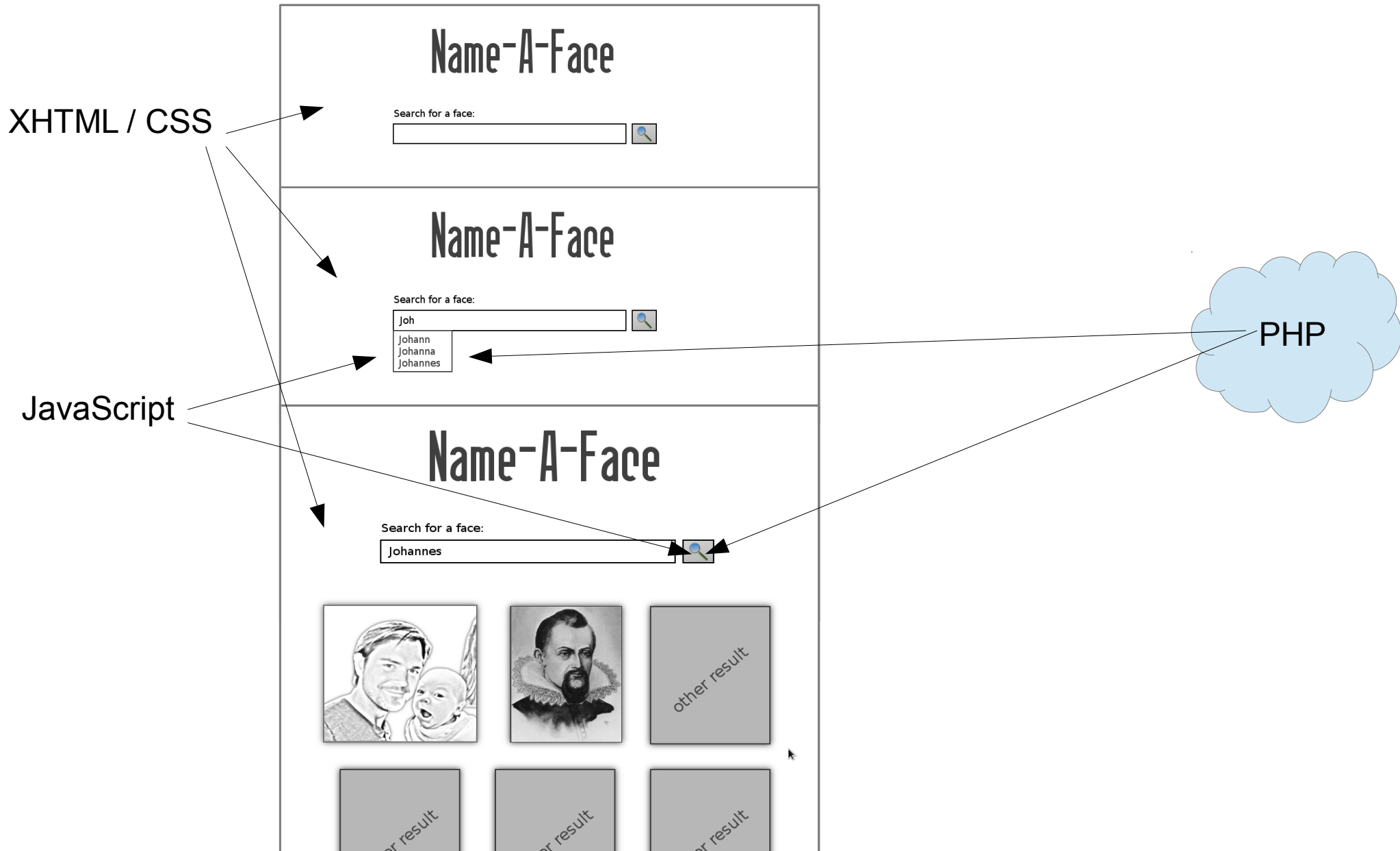
Create a Mockup



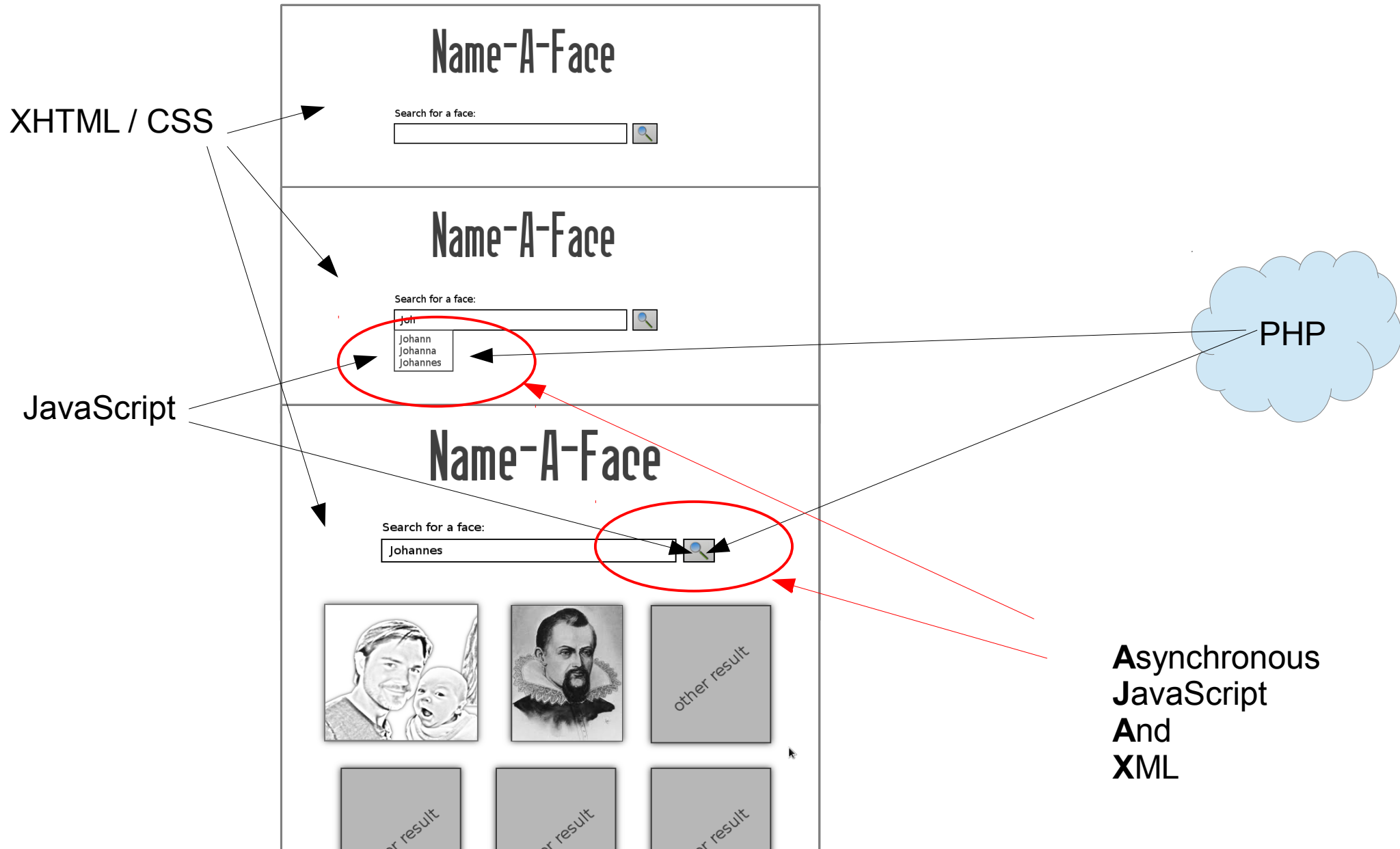
Where's all the technology?



Where's all the technology?



Where's all the technology?



XHTML

- HyperText Markup Language
- W3C Standard
- Uses `<tag></tag>` to structure content on a web page

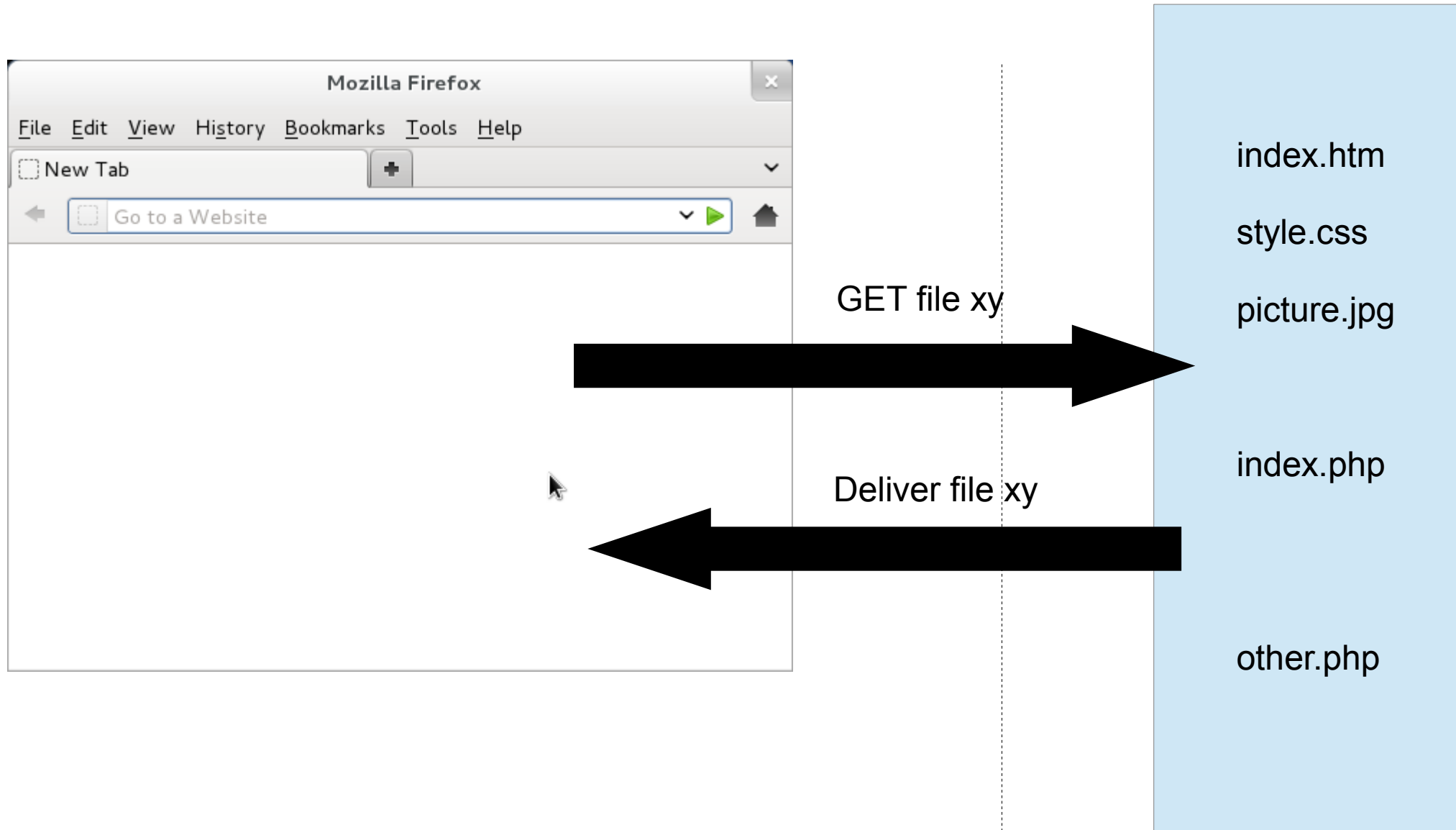
CSS

- Cascading StyleSheets
- Language for defining the style of web page elements

JavaScript / AJAX

- Scripting language for in-browser execution
- Accesses objects from browser API
- AJAX: uses the XMLHttpRequest Object
 - To communicate with the server in the background

Client vs Server : AJAX








PHP

- PHP Hypertext Preprocessor
- Scripting language
- Embeddable into HTML
- File extension .php
- Webserver executes PHP when a .php file is requested → code is executed on request
- <http://www.php.net>
- .public_html : version 5.2.4

- Let's go live

Project Overview

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

Name	Size	Type
 index.html	0 bytes	HTML document
 name_a_face.css	0 bytes	CSS stylesheet
 name_a_face.js	0 bytes	JavaScript program
 search.php	0 bytes	PHP script
 suggest.php	0 bytes	PHP script

Web App

- Data
 - Store
 - As files
 - In database
 - In Lucene
 - In Cloud
- Application logic
 - Provide operations
 - CRUD: Create, Read, Update, Delete

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Caveats

- Security
- Scalability
- .public_html
 - Web server needs read permissions

Where to go from here

- Frameworks and libraries help
 - JavaScript
 - mootools
 - jQuery
 - PHP
 - Cake
 - Zend
 - ...

Where to go from here

- Play!
- .public_html
- <http://de.selfhtml.org>
- <http://www.google.de>