

#### Intro to Web Development with PHP

Lesson 1

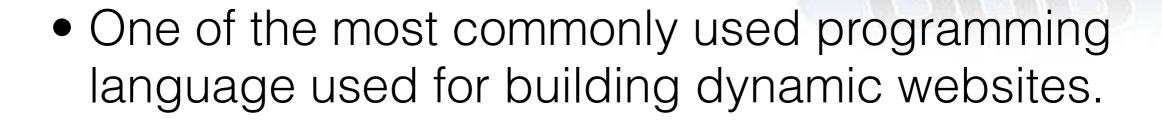
### What is PHP?

- Computer programming software that is mostly used for building websites.
- Developed by Rasmus Lerdorf in 1994.
- Collection of small computer programs
   / scripts that he used to build websites.
- PHP/FI Personal Home Page / Forms Interpreter



### What is PHP?

- 1997 Andi Gutmans & Zeev Suraski helped to turn it into a real programming language (PHP 3.0)
- PHP: Hypertext Preprocessor
- PHP 3 Released in June 1998

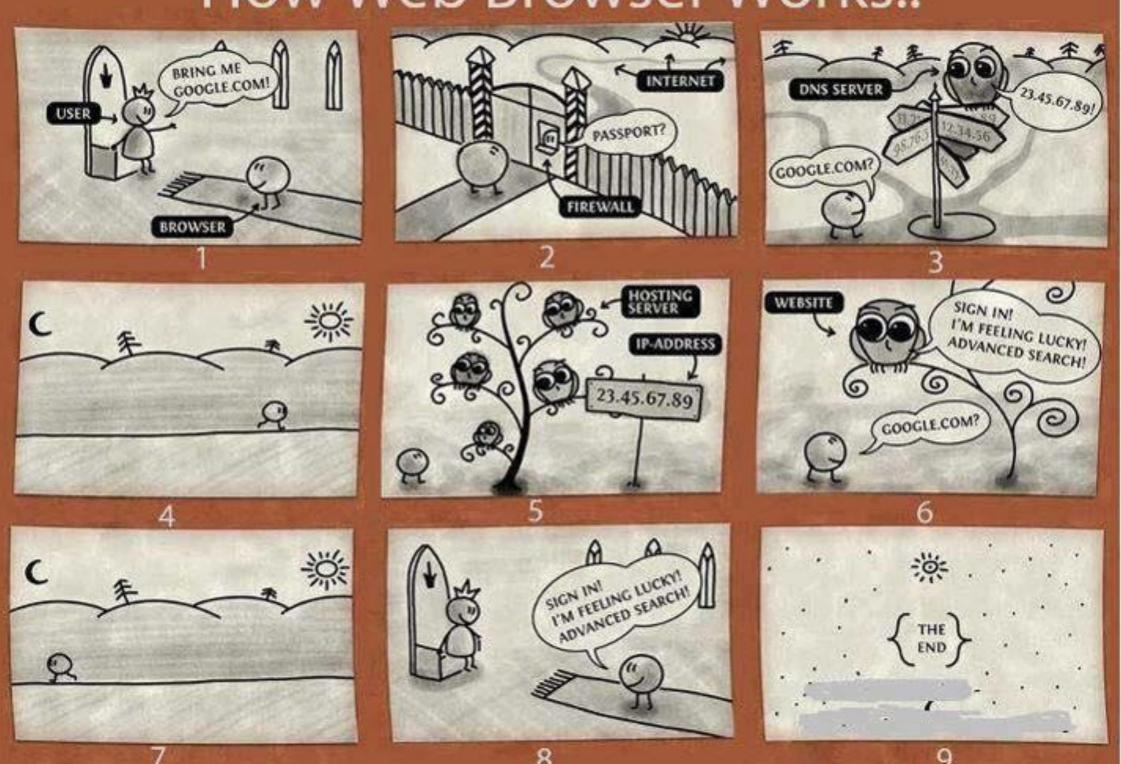


### How do I use PHP?

- Most commonly used in a web server.
- Web server is a software connected to a computer network (Internet or LAN), that is meant to share hypertext documents (HTML).
- Nowadays u can get all sorts of multimedia files from a web server.



#### How Web Browser Works...



# Anatomy of a HTML document

```
<!DOCTYPE html>

    Everything is a tag

     <html>
     <head>

    Head

          <title>Hello, World!</title>
                                             Body
 6
7
     </head>

    Headers

     <body>

    Paragraph

10
     Hello, World!
11

    Anchor

12
     </body>
                                             Lists
13
     </html>
14
```

## Why PHP?

- HTML documents (web pages) were all hand coded.
- Updating the documents soon became very tedious.
  - Eg. Current date, Good morning.
- Want to be able to collect info on the web page as well.
  - ie. web pages needed to be dynamic & interactive.



### Why PHP?

- There has to be a easier / faster way of updating web pages.
- Let's make the web servers smarter
   & more dynamic.
- Let's do things with a database.



# Let's setup a web server!

- Setting up WAMP / MAMP
  - http://wampserver.com
  - http://mamp.info
- Windows Apache MySQL PHP
- Mac Apache MySQL PHP





# PHP is an interpreted language

- Special markups (PHP tag) let the web server know that certain portions of a web page are PHP & needs to be treated by the PHP interpreter
- Opposite of interpreted language is a compiled language (Java, C, C++)
- Must end each line with a semi-colon.

# PHP is an interpreted language

PHP Tags

```
<?php ?> Normal PHP Tag
<? ?> Short Tag
```

• Commenting: Adding comments in the code that does not get printed out or interpreted by PHP.

```
// Some Comment
# Other comments
/* More Comments */
```

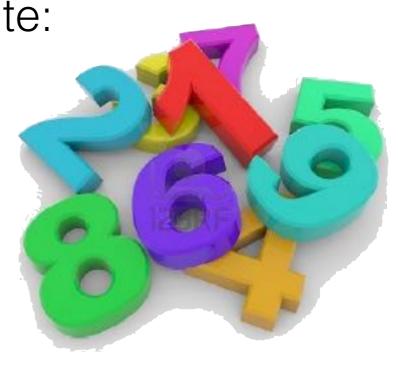
### Let's write some PHP!

- Download & install Visual Studio Code
  - https://code.visualstudio.com/Download
- Hello world with date/time (introduce PHP build-in function)
- Hello world with user input (URL parameter)
- Hello world with form GET
- Hello world with form POST
- Upload file with a form
- Show uploaded image



### What are data types?

- How do u present them?
- Simple data types (non-composite, scalar):
  - Strings, Integers, Boolean
- Complex, multi-dimensional, composite:
  - Array, Object
- Resource (file, DB connection)



## How do I store these data & pass them around?

- Within the same PHP file.
  - Variable container of information, info can be of any type & can be changed anytime
  - Constants Another kind of container where once the info is set, you cannot change it.

# How do I store these data & pass them around?

- Between different PHP files.
  - URL parameters
     (eg. <u>http://localhost/hello.php?name=Michael</u>)
  - HTML Form (POST/GET)
  - Cookie Pieces of info related to a website visitor stored in the web browser
  - Session Variables Information related to a website visitor stored in the web server

# When to use which method?

- Is it changeable?
- How big is the data?
- How sensitive is the data?
- Passed within the same file?
- Passed between between pages in the same site?
- Passed between different web sites (domain name)

### End of Lesson 1

