



# W12 – PHP – Web Programming II

Introduction / Reminder

# Course Objectives

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- Installing Apache PHP
- MySQL Revision
- HTML Protocol Revision
- HTTP Protocol
- PHP Tags
- Introduction to git

# Introduction – History

- PHP was created in 1994 by Rasmus Lerdof
- Originally a Internal Library to manage CVs
- Updated in 1997 by two students
  - PHP3 (PHP: Hypertext Preprocessor)

PHP will disappear?

Javascript	71,5%
HTML	69,4%
CSS	66,2%
SQL	58,5%
Jqvg	45,4%
Bash/Shell	40,4%
Python	37,9%
C#	35,3%
PHP	31,4%
C++	24,6%
C	22,1%
TypeScrip	18,3%
Ruby	10,3%

# Installing the IDE

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- PhpStorm
- JetBrains Website
- Create an account
- <https://account.jetbrains.com/a/xpx4lyb5>

# All-in-one Installer

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There are all-in-one installers containing:

- apache
- php
- mysql

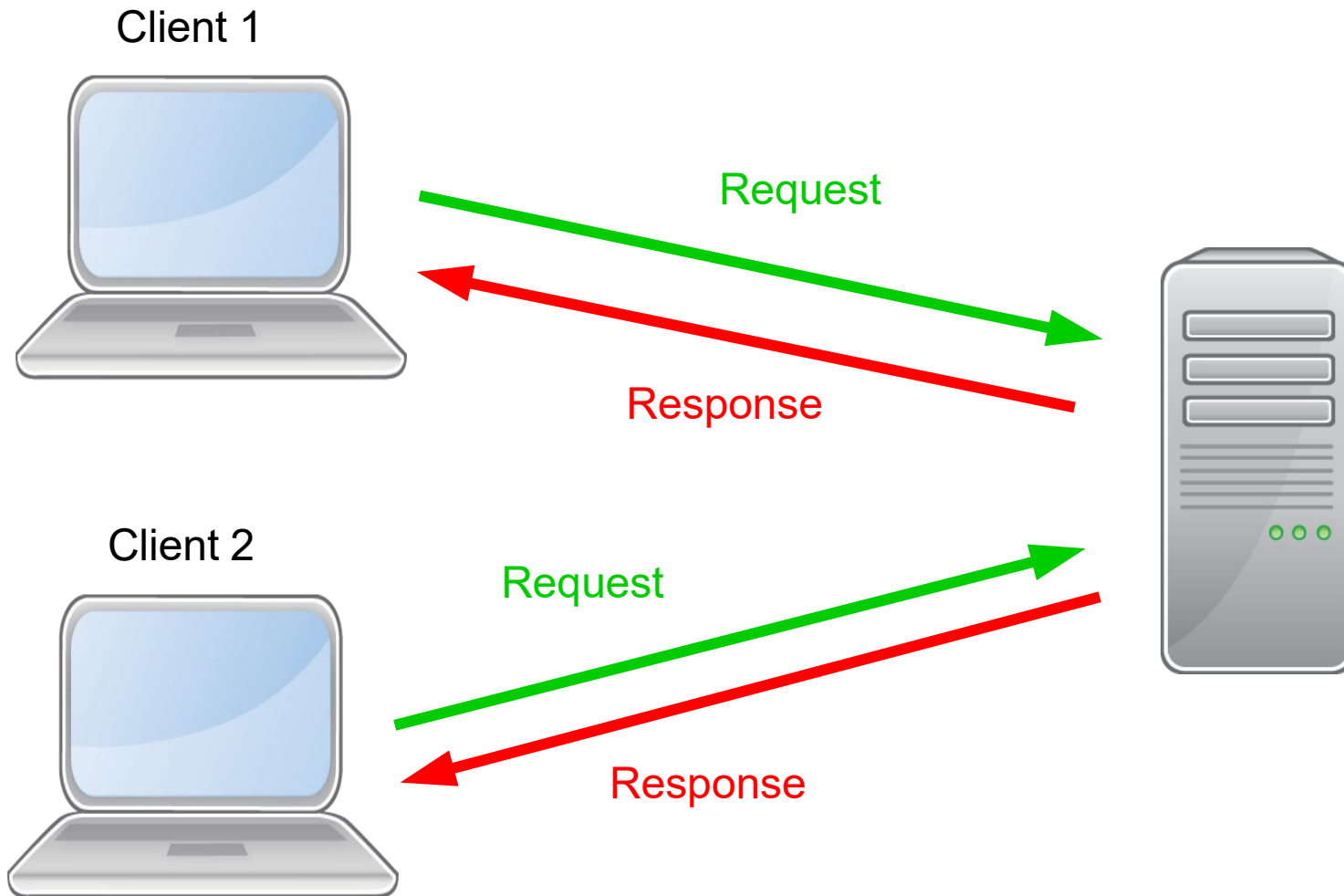
One of the most known WAMP / LAMP / MAMP

But other exist like EasyPhp

Or install everything separately

- download apache download php
- mysql and workbench already installed on your machines

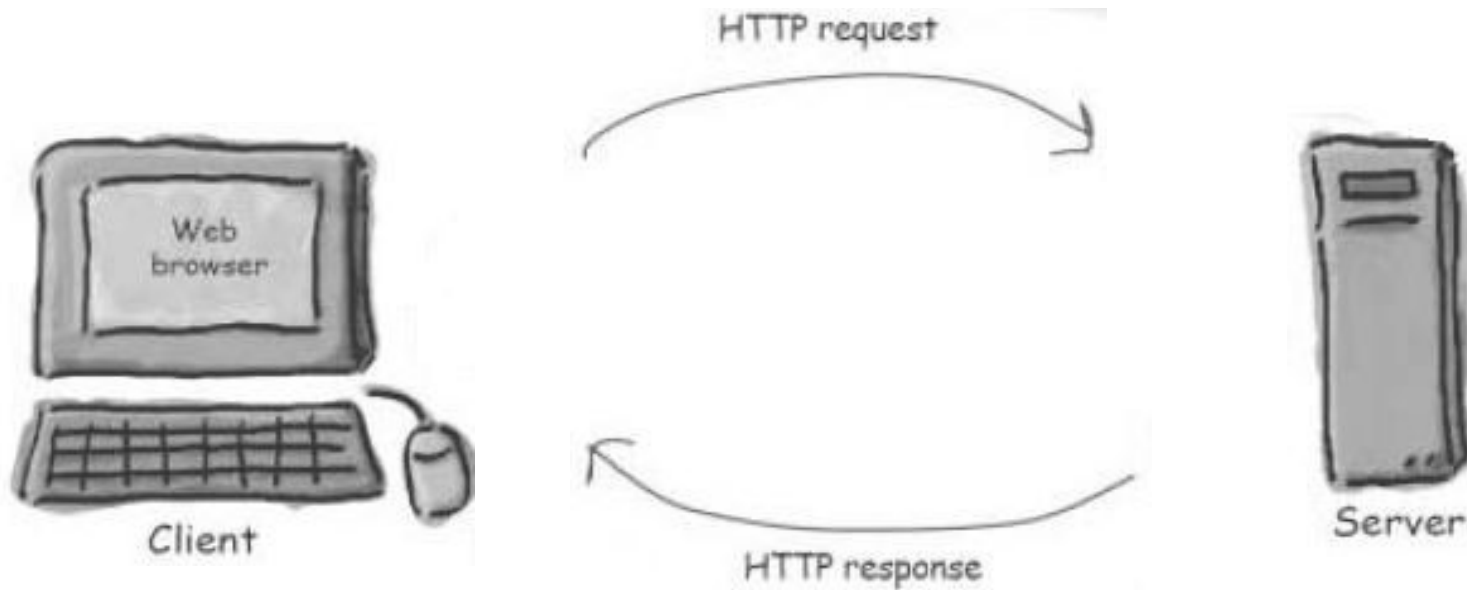
# HTTP Protocol



# HTTP Details

## An Http Request

1. A request line
2. Headers
3. Sometimes a body



## An HTTP Response

1. A Status
2. Headers
3. Generally a body

## Commande

GET

HEAD

POST

PUT

DELETE

# GET

# //

# POST

- Most common method for requesting a resource
- Default method for hyperlinks and forms
- Can send data to a server.

## **The transfer of data to the server:**

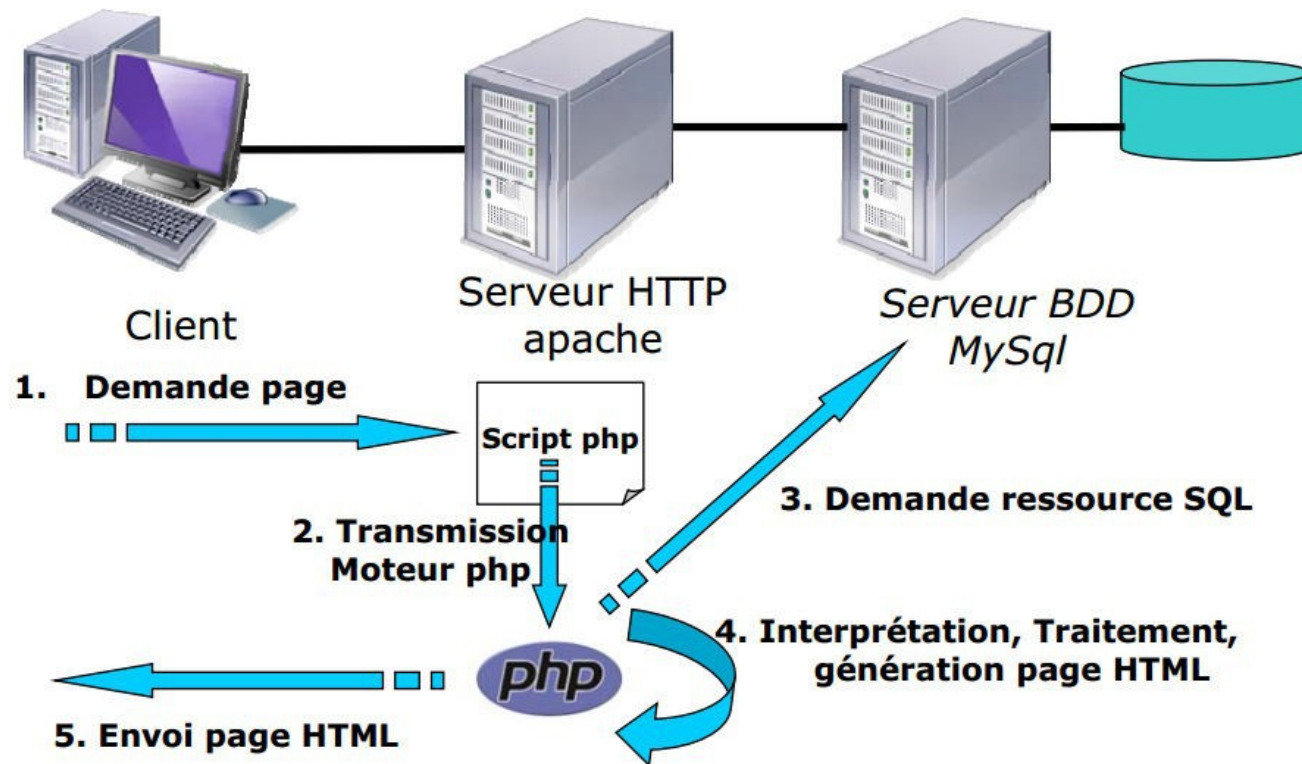
- Limited size (Url limit)
- Data concatenated with the URL.

- Also allows to transfer information
- There is no limit on the size of the transmitted data.
- Data is stored in the body of the query



# Http with Apache/PHP

- **Static** websites : HTML et CSS.
- **Dynamic** websites : PHP, Java, Ruby



# PHP Tags

- `<?php ?>`

Allows you to insert PHP code in the middle of HTML.

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="UTF-8">
5     <title>Title</title>
6 </head>
7 <body>
8     <?php echo "Hello World" ?>
9 </body>
10 </html>
```

- `<?= ?>`

Insert text interpreted by PHP in HTML

These two code segments produce the same result.

```
1 <?php $nom = "Hello World"?>
2 <!DOCTYPE html>
3 <html lang="en">
4 <head>
5     <meta charset="UTF-8">
6     <title>Title</title>
7 </head>
8 <body>
9     <?= $nom ?>
10 </body>
11 </html>
```

- You can use PHP tags anywhere in a page
- The file is saved with the .php extension

# PHP Variables

- PHP is a weakly typed language
- To declare a variable, the name must start with a \$
- Ex :
  - \$nom
  - \$age
  - \$isPresent ou \$is\_present
- Special characters like +, -, %, (, ), &, etc are not allowed
- PHP Type :
  - string " " or ' '
  - attention nuance
  - int 4
  - float 22,35 bool
  - true/false
  - NULL

# PHP Best Practices

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- Use the `<?php` and `?>` tag in php and html files
- Use only the opening tag `<?php` in files only containing php
- To be continued in the course: cross site scripting, data verification, using includes

# Documentation

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- References

- <http://php.net/manual/fr/index.php> <https://www.w3schools.com/php/default.asp>
- [www.w3schools.com/php/default.asp](https://www.w3schools.com/php/default.asp)

- Tutorials

- <https://www.tutorialspoint.com/php7/>
- <https://openclassrooms.com/fr/courses/918836-concevez-votre-site-web-avec-php-et-mysql>
- <https://openclassrooms.com/fr/courses/1325466-votre-site-php-presque-complet-architecture-mvc-et-bonnes-pratiques>

# git

- Installing git bash in Windows
- The main commands you should know:
  - clone add .
  - commit -a -m "message de commit"
  - pull
  - push
  - merge conflit
  - using branches in git
  - merging branches in git