

Introduction to WordPress, PHP and Web Servers



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Software University

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#WordPress

1. CMS Introduction
2. What is WordPress?
3. Basic Information About Web Servers, Domains
4. Localhost, XAMPP, WAMP, LAMP Stack
5. WordPress Codex





CMS Introduction

Some Assumptions

- Programming is **fairly new** to you
- You have some **basics**
- **WordPress** is new to you
- Or you have some **basic knowledge**



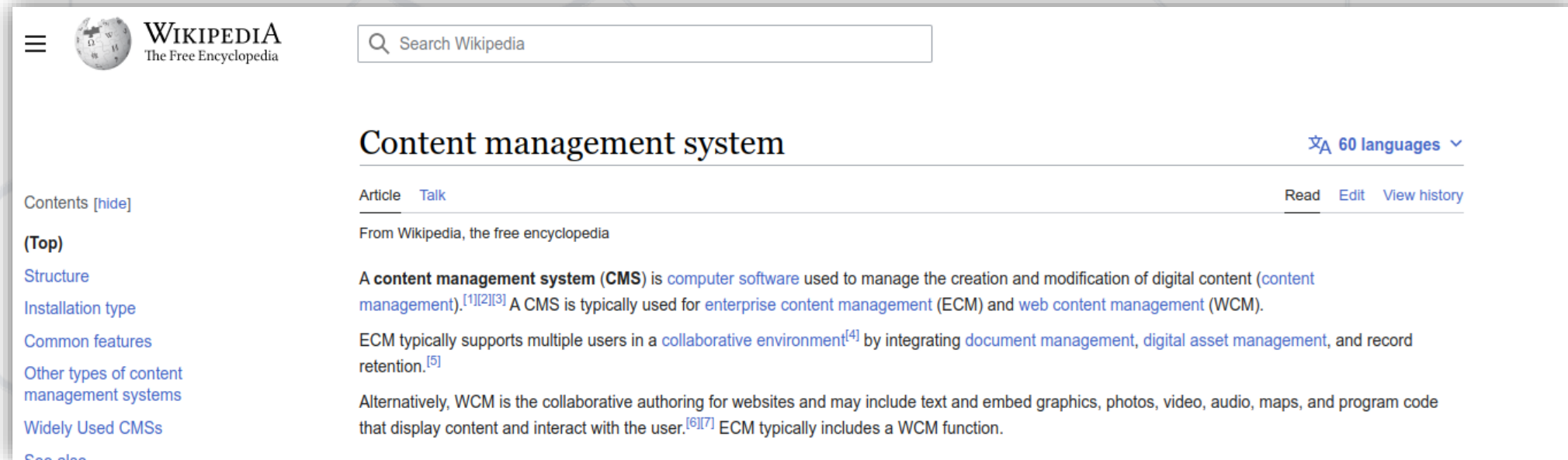
A Few Notes Before We Start

- The course is touching the surface
- There will always be something else to show
- We'll try to have less "**watch me how I code**" part and more interaction
- We'll have **less code** in terms of lines, but hopefully we'll have a **better understanding** what code does



CMS Introduction

- **CMS** stands for content management system
- A presentation without **Wikipedia** quote is not a presentation



The screenshot shows the Wikipedia page for 'Content management system'. The page includes a search bar, a table of contents on the left, and the main article text. The article text defines a CMS as computer software used to manage digital content, mentions its use in ECM and WCM, and includes references.

WIKIPEDIA
The Free Encyclopedia

Search Wikipedia

Content management system

60 languages

Article Talk

From Wikipedia, the free encyclopedia

A **content management system (CMS)** is [computer software](#) used to manage the creation and modification of digital content ([content management](#)).^{[1][2][3]} A CMS is typically used for [enterprise content management \(ECM\)](#) and [web content management \(WCM\)](#). ECM typically supports multiple users in a [collaborative environment](#)^[4] by integrating [document management](#), [digital asset management](#), and [record retention](#).^[5] Alternatively, WCM is the collaborative authoring for websites and may include text and embed graphics, photos, video, audio, maps, and program code that display content and interact with the user.^{[6][7]} ECM typically includes a WCM function.

CMS Common Features

- Easy content **writing***
- **User** management
- **Media** management
- Structure
- SEO-**Friendly***
- Many more





What is WordPress?

What is WordPress?

- A free and open-source content management system (**CMS**) written in hypertext preprocessor language (**PHP**) and paired with a **MySQL** or **MariaDB** database with supported **HTTPS**
- Released on May 27, 2003
- Founders - **Matt Mullenweg** and **Mike Little**



Why WordPress?

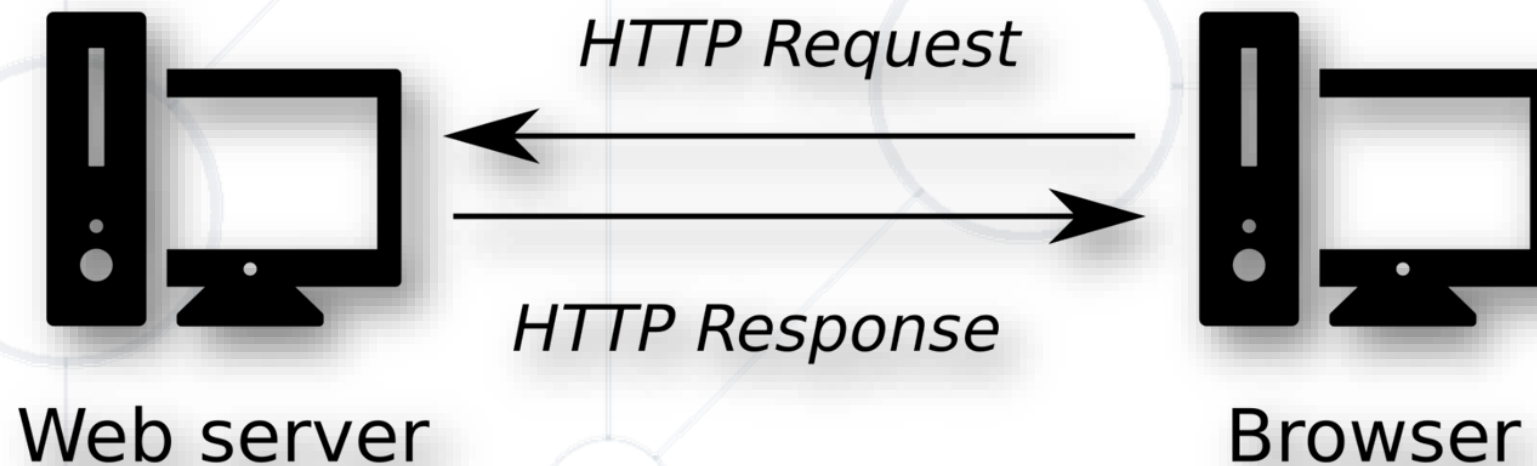
- Scalable
- Easy to **manage**
- Large online support community
- **Broad variety** of themes
- **Plugins** for every feature
- **SEO** optimized
- Secure and reliable
- A stable **Framework**
- Easy to learn*
- Over 43% of the websites use WP
- Over 60% of the CMS market share
- Here to stay





Before We Proceed

- What is a **web server**?
- The shortest version - a machine that takes care of our files, databases and where we can host our project



- What a domain is?
 - **google.com**
- Virtual host
- Localhost



- XAMPP
- WampServer
- LAMP Stack
- Others



- Apache
- localhost directory
 - **C:\Xampp\htdocs**
 - **/var/www/html/**
- **MySQL** and **phpMyAdmin**
- **PHP**
- **XAMPP** covers most of these *



- For the basics - **not so much**
- **Different directories** structure
- **hosts file** and **conf files** have different location
- **Terminal** vs **UI**
- **LAMP stack** vs **XAMPP**
- For the context of the course, there is no **major difference, it's a personal choice**



Practice

Let's Install our Localhost Environment



Explore WordPress

Let's Explore WordPress



Files

Database

Themes

Plugins

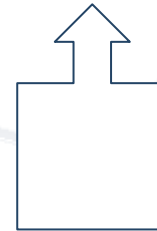
Let's Explore WordPress - Themes

Files

Database

Themes

Plugins



WordPress Themes

- From the Codex:

"A **WordPress** theme changes the design of your website, often including its layout. Changing your theme changes how your site looks on the **front-end**, i.e. what a visitor sees when they browse to your site **on the web**."

- My example - like a **Phone theme**



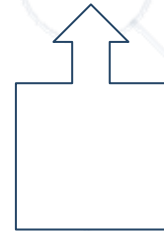
Let's Explore WordPress - Plugins

Files

Database

Themes

Plugins



WordPress Plugins

- From the Codex:

"At its simplest, a **WordPress plugin** is a **PHP** file with a WordPress plugin header comment. It's highly recommended that you create a **directory** to hold your plugin so that all of your plugin's files are neatly organized in **one place**."

- My example - like a **Phone App**



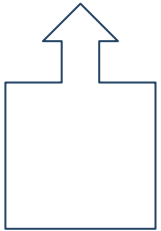
Let's Explore WordPress - Files

Files

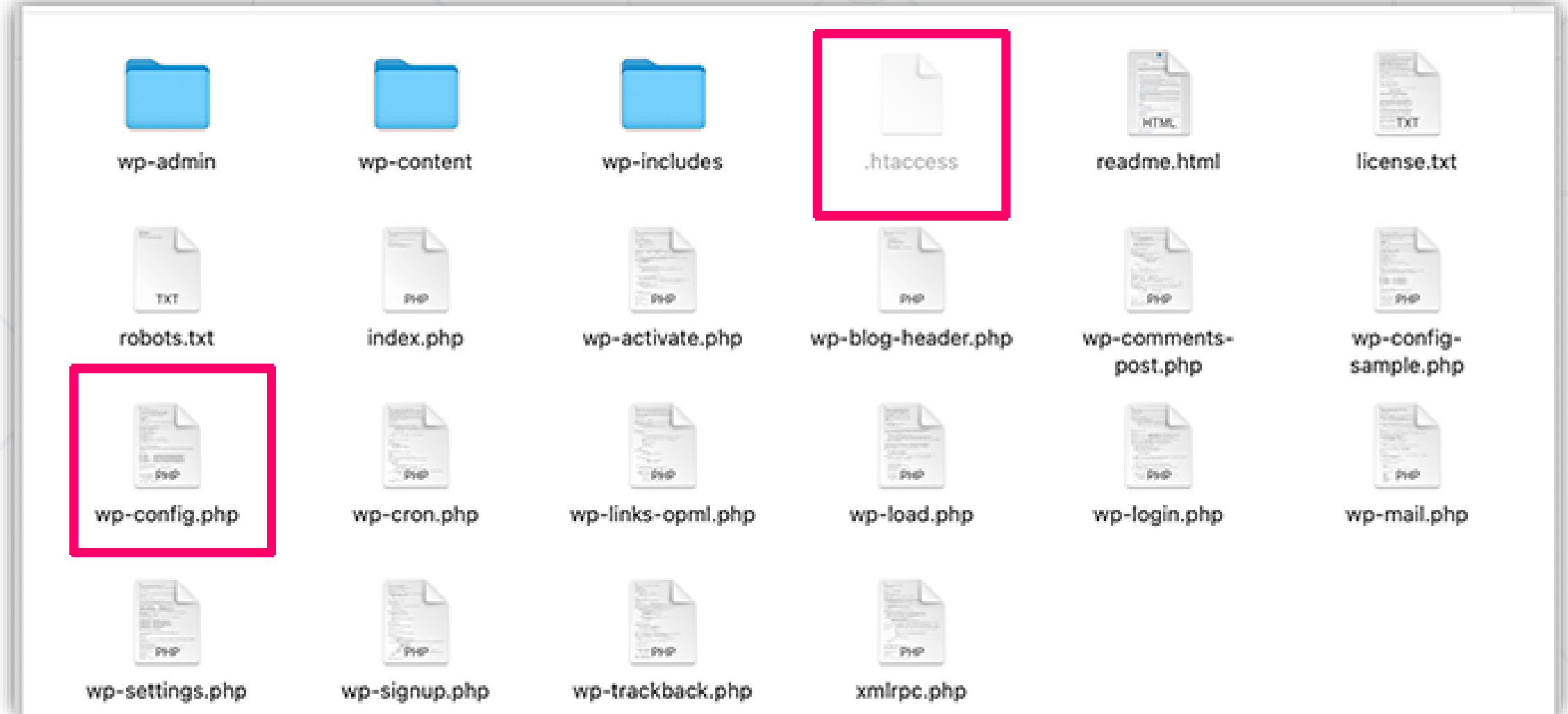
Database

Themes

Plugins



WordPress Files

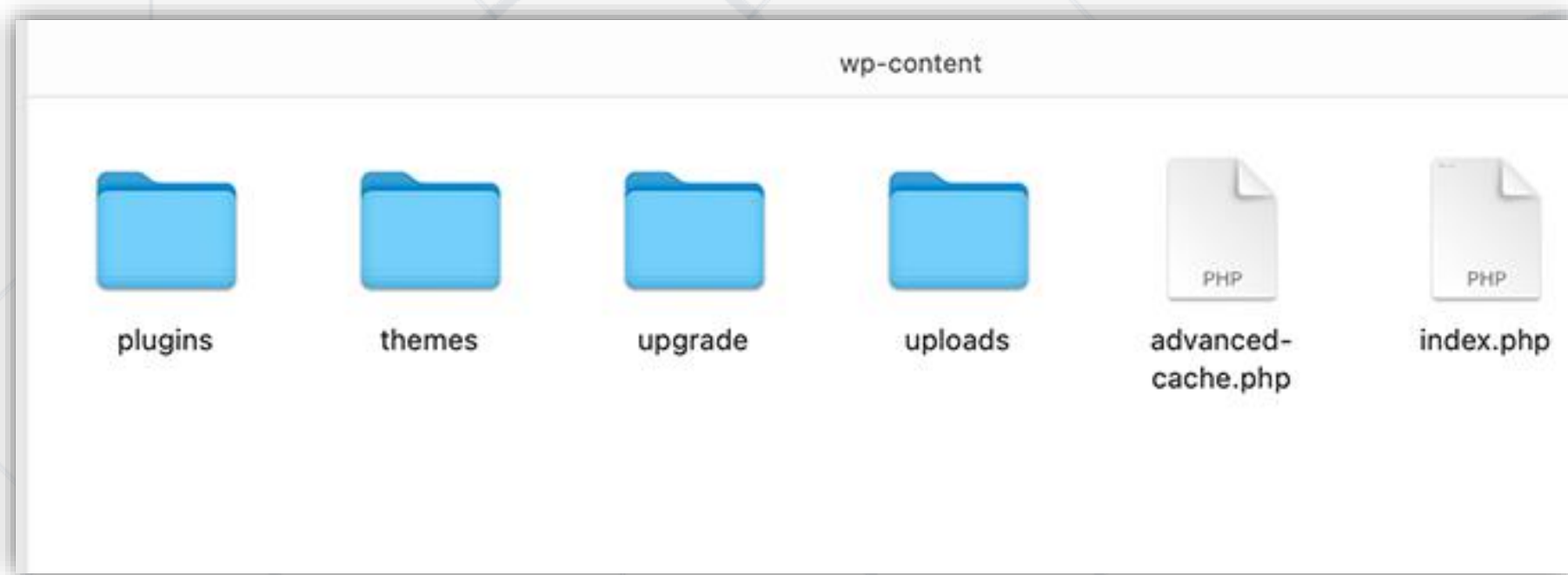


WordPress Files

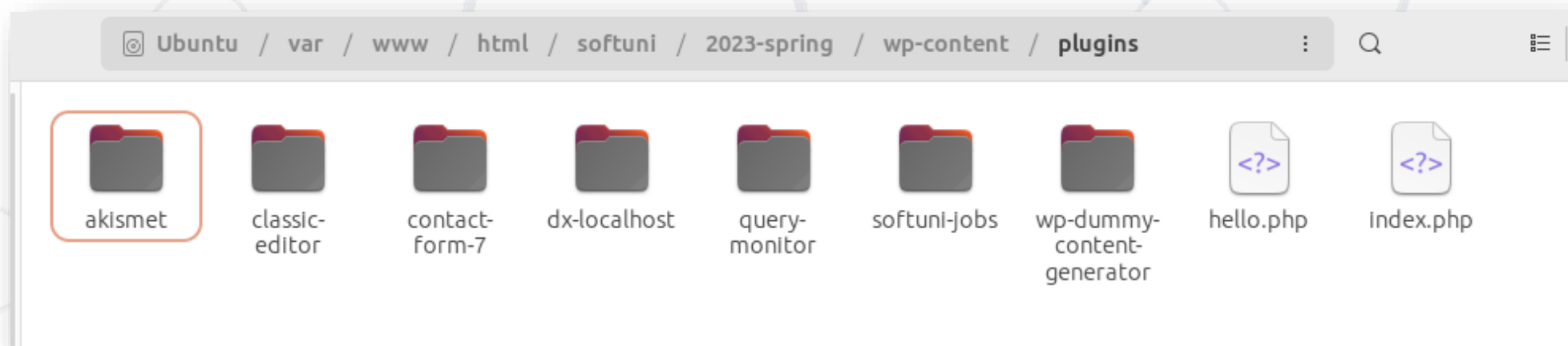
- **root** files
- wp-**admin**
- wp-**includes**
- wp-**content**
- wp-<system-files>.**php**
- **.htaccess**



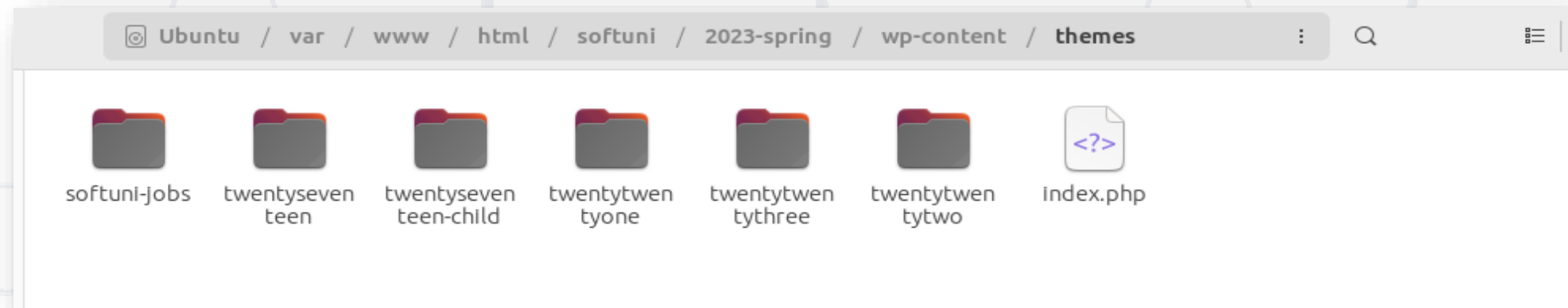
wp-content Folder



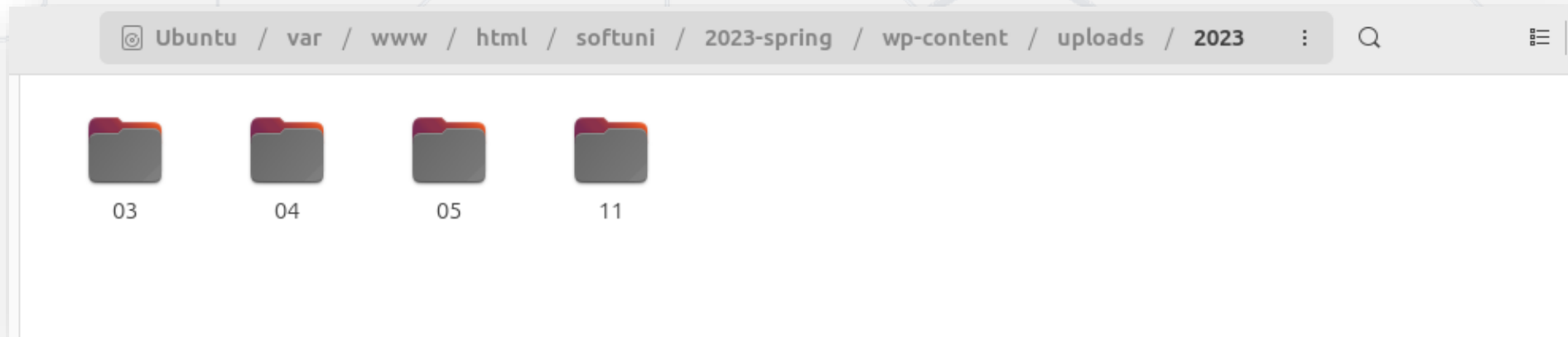
wp-content - plugins Folder



wp-content - themes Folder



wp-content - uploads Folder



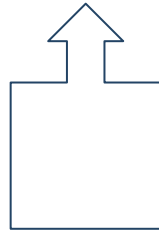
Let's Explore WordPress - Database

Files

Database

Themes

Plugins



■ Database Description



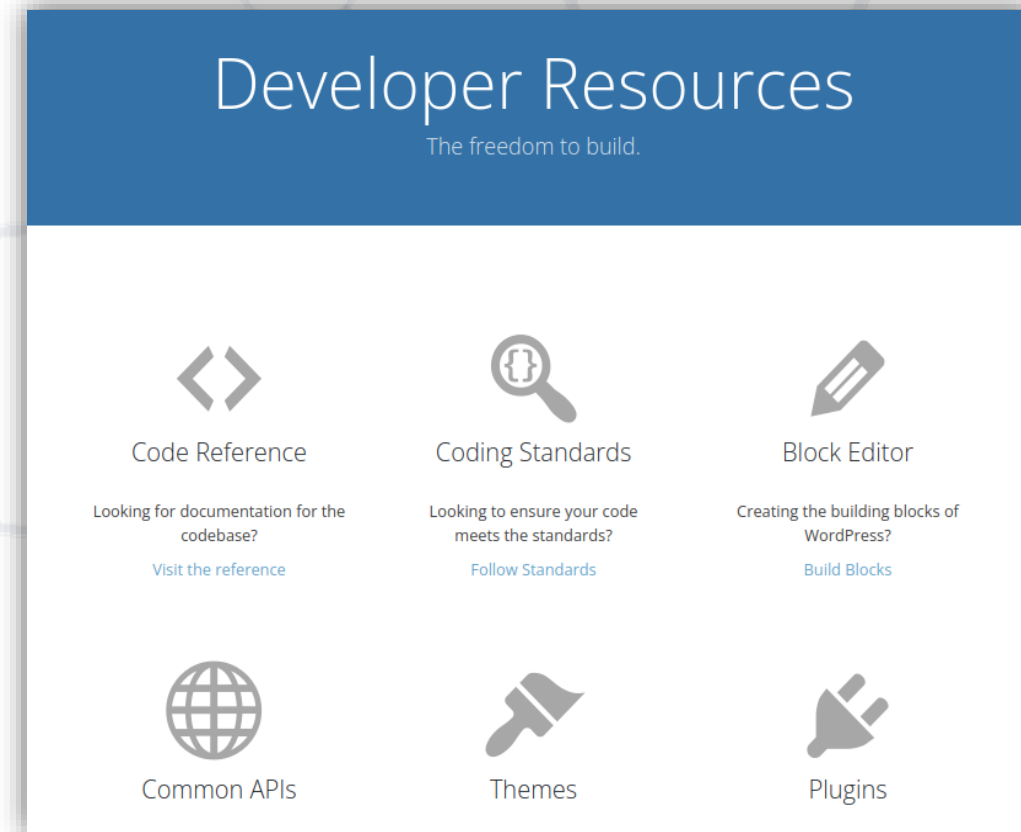
WordPress Database

- Review the details in [Database Description](#)



WordPress Codex

- codex.wordpress.org
- now - developer.wordpress.org
- Google is here for us
- ChatGPT also can help



Questions Before the Practice?

- **Localhost** development vs **Server** development
- Git setup
- sli.do Q&A





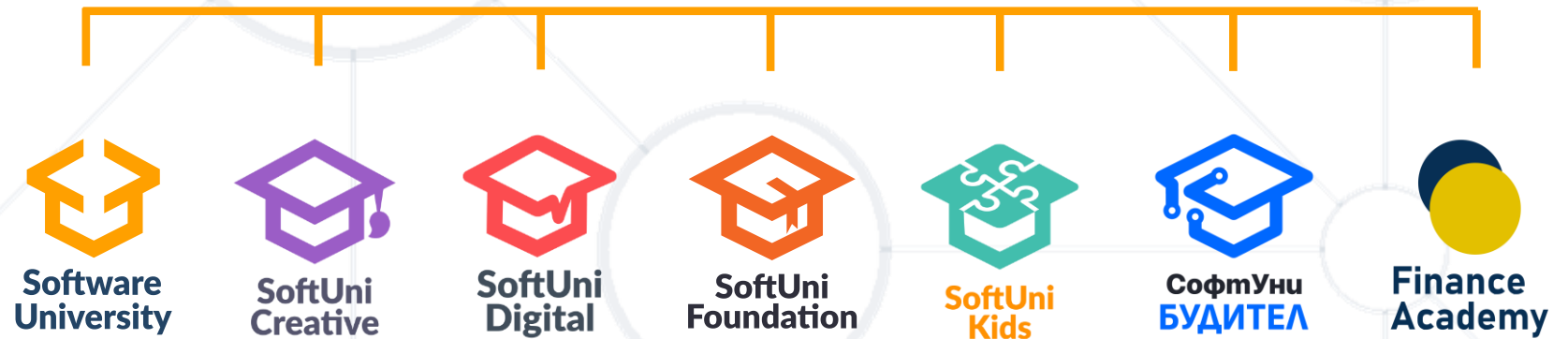
Practice

Let's Install and Explore WordPress

- We get **to know** each other
- We checked what **CMS** is
- We know what **WordPress** is and why we are **using it**
- We even **installed** it
- We have the basics of a **web server** and hopefully running a **local** environment



Questions?



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