

# VSCode extensions

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## PHP-related Extensions

### PHP Extension Pack

Includes: PHP IntelliSense, PHP Debug

- Advanced Autocompletion and Refactoring support for PHP

### PHP Intelephense

- Format PHP
- HTML auto-completion in PHP file and other features
- Format HTML in PHP

### Format HTML in PHP

Provides formatting for the HTML code in PHP files using JSbeautify - Works well paired with a PHP formatting extension

Document formatting command:

Ctrl + Shift + I or Shift + Alt + F

## HTM/LCSS/JavaScript

Prettier (HTML, CSS, Javascript, JSON, Markdown, XML, ...)

- Code formatter using prettier

# Set up XAMPP for hosting web server development

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## Install XAMPP

URL: <https://youtu.be/-f8N4FEQWyY>

Select components:

- Apache
- MySQL
- PHP
- phpMyAdmin

### For Linux systems

- Make the xampp download executable:

```
chmod u+x xampp*
```

- Then install:

```
sudo /home/Downloads/xampp...
```

- Default installation directory: `/opt/lampp`
- Need root permission to edit this directory: e.g. to create the `dev` folder:

```
cd /opt/lampp  
  
sudo mkdir dev
```

## Configure web server to host the development folder

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Suppose your XAMPP is installed at the folder `$XAMPP = C:/xampp`:

1. Add `$XAMPP/php` to your system's path. This is needed for VSCode to execute `php.exe` from VSCode and on the terminal.
2. Open the Command prompt at the `$XAMPP` installation folder
3. Create a symbol link from your code folder to a subfolder under the folder `$XAMPP/htdocs`. Follow the [instructions here](#) on how to create symbolic link on Windows or Linux.

Suppose your code folder name is `C:/COS10026/dev`. After this step, you get the link `$XAMPP/htdocs/cos10026` that points to that folder

4. View your dev directory by pointing your browser to: `http://localhost/cos10026`
5. Browse and execute your desired PHP script

## Working with your dev folder on VSCode

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- Start VSCode
- Select: File/Open folder Browse to select the dev folder that you set up previously
- Create subfolders and files in your dev folder: use the buttons next to each folder name (visible when you hover the mouse over it).
- Organise your resources by each weekly tasks. Example:
  - for week 1: create a subfolder w01.
  - for week 1's tasks 1: create a subfolder w01/t1 for all resources pertaining to this task
  - and so on

# (Optional) Creating a VSCode workspace for your dev folder

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Helps easily organise different code projects.

- Start VSCode
- Select: File/Open folder Browse to select the dev folder that you set up previously
- Select: File/Save workspace as Name it: dev.code-workspace
- That's it! Start creating subfolders and files in your dev folder using this workspace. Organise your files by weeks and tasks. Example:
  - create folder w01 for week 1.
  - then create a subfolder w01/t1 for all resources pertaining to week1's task 1, and so on for other tasks
- You can close one workspace and open another easily by using "File/Open workspace" and browse to select your desired workspace file.