To download PHP

GoTo the website below:

https://windows.php.net/download#php-8.3

Ideally, click on the Zip file download for VS16 x64 Thread Safe (2024-Jan-16 21:06:32)

- Unless you need to use x32 or an unsafe thread version there are options listed

In downloads, extract all to C:/php or wherever you would like PHP to be stored, whether it be downloads or desktop. I chose C:/php as it was easier to find



The folder itself can be found under "This PC" and then under /your_computer_name

To install PHP storm, the IDE/Text Editor, click the **link** here: <u>https://www.jetbrains.com/phpstorm/</u>

For context, CSE 250's intellij and PHP storm are both under JET BRAINS so if the license key is still valid from CSE250, can skip over portions of the DOC, however, if you have not taken CSE250 in over a year, the license may have been revoked

Choose to install PHPSTORM wherever, and while you do not need all the options selected, CLICK "ADD BIN FOLDER TO PATH"

PhpStorm Setup		- 0	\times
PS	Choose Install Location Choose the folder in which to install PhpS	torm.	
Setup will install PhpStorm in and select another folder. Cl	the following folder. To install in a differen ick Next to continue.	t folder, click Browse	
Destination Folder C:\Program Files\JetBrai	ns\PhpStorm 2023.3.3	Browse	
PhpStorm Setup		- 🗆	×
PS	Installation Options Configure your PhpStorm installation		
Create Desktop Shortcut	Update PATH Variable	(restart needed)	
Update Context Menu	oject"		
Create Associations	🗸 .js 🔽 .css 🔽 .html		

After the restart, launch PHPStorm and select "Do not import settings"

JETBRAINS IS ASKING FOR A LICENSE

While I can't post screenshots of it without messing up my own setup as I'm writing this AFTER I've configured my work station, go to the link below and sign up for a student account, you should have a student account from CSE250 and all you need to do is renew the license for a year:

https://www.jetbrains.com/community/education/#students

You should receive and email looking like this in which you click the link from there and continue:



Make sure PHPStorm is connected that account in order to access everything offered

TO CREATE A PROJECT:

Click "New Project", and from the side bar options, click PHP Empty Project, give your project a location:

B PHP Empty Project	New Projec	st
PhpStorm Workshop Project	Location:	C:\Users\mdjim\PhpstormProjects\phpFirstTime
🎒 Composer Package Project	🗌 Add 'coi	mposer.json'
😔 Drupal Module		

IMMEDIATELY, click settings and PHP, change the PHP language level to 7.3:

Q.	P 🖻		Reset	
> PHP		72 (references in list assignments flexible baredoes)		
imes Appearance & Behavior	<u>r</u> nr language level.	7.3 (references in list assignments, nexible heredocs)		
Appearance	CLI Interpreter:	<no interpreter=""></no>		
New UI				
Menus and Toolbars	Include Path PF	IP Runtime Analysis Composer Files		
> System Settings	+ — Exclude			

For interpreter, click on the 3 dots, the + symbol and select local path to interpreter

+ — 🗊 PHP	Na <u>m</u> e: PHP		Visible only for this project
	General		
	PHP executable:	C:\php8.3\php.exe	 €
	Configuration file	:	
	 PHP version: 8 	3.3.2	Debugger: Not installed
	🔥 Configuratior	n php.ini file does not exist	
	Additional		
	Debugger extensi	on:	
	Configuration opt	ions:	

Have it be directed to the executable file in the PHP we had downloaded earlier, the file should be the same: "php.exe"

- Side note, PHP is stored as php8.3 and not php as I was testing with numerous versions to make sure it all worked correctly, you should stick to the naming you had used originally

Now, type echo "hello";



And click run OR click on the browsers if you have them installed:

Hello should pop into both the PHPSTORM terminal as well as the browser For more complicated beginner code to mess around with:



The code is meant to just add two user inputted numbers, below is the outcome:

PS		PF phpFirstTime Version control V	Ũ	Current File 🗸	► 3	Ĵŧ	:	ĉţ
		php test1.php ×						
_		5 echo "Enter the second number: ";						
ŏo		6 \$number2 = readline();						
		8 // Converting user inputs to numbers						
		<pre>9 \$number1 = (float) \$number1; 10 \$number2 = (float) \$number2;</pre>						
		11 \$sum = \$number1 + \$number2:						
		12						
		13 echo "The sum of \$number1 and \$number2 is: \$sum";						
	Run	ρ_{hp} test1.php $ imes$						
	C)							
	\uparrow	C:\php8.3\php.exe <u>C:\Users\mdjim\PhpstormProjects\phpFirstTime\test1.php</u>						
$\langle D \rangle$	\downarrow	Enter the first number: 5						
		Enter the second number: 4						
\triangleright	=↓	The sum of 5 and 4 is: 9 Process finished with evit code 0						
oho	_ 	Hotess Hintshed with exit code o						
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lõ I	Ă]) 🖄 🗊 î∿ Sort ∽ 🗮 View ∽	Co Extract all	
	Name	Date modified	Туре
	∨ Today		
	php-7.3.33.tar.xz	2/7/2024 10:31 PM	WinZip
÷	💳 Extract Archive		×
	Select a Destination and Extract Files		
	Files will be extracted to this folder:		
	C:\php		Browse
	Show extracted files when complete		
🗖 Inte	I		
🗖 Pert	Logs		
🚞 php			
🚞 Pro	gram Files		
🚞 Pro	gram Files (x86)		

If PHP cannot be added to the path via PHPStorm:

The folder itself can be found under "This PC" and then under /your_computer_name

\leftarrow All Documents Web Settings Apps Folders ▶ Best match Edit the system environment variables **_** C Control panel <u>↓</u> τ Edit the system envir **=** c Apps Control p R build_env_setup.bat > I Settings 🖸 Open N N Edit environment variables for S > your account C

CONFIGURE WINDOWS PATH VARIABLE

Go search up "environment" into the windows search bar to find this:

System Properties	×
Computer Name Hardware Advanced System Protection Remote You must be logged on as an Administrator to make most of these changes.	Click "Environment Variable", you should be a table for VARIABLE VALUE
Performance Visual effects, processor scheduling, memory usage, and virtual memory Settings	Click on the Path variable and the edit under the first table (not system variables)
User Profiles Desktop settings related to your sign-in	Click "New" and type in C:/php or the folder you have chosen to put 7.3 into, shown below
Startup and Recovery System startup, system failure, and debugging information Settings	You can also Browse through and find the folder instead if easier
Environment Variables	
	^

C:\Users\mdjim\AppData\Local\Programs\Python\Launcher\	New
%USERPROFILE%\AppData\Local\Microsoft\WindowsApps	
C:\Users\mdjim\AppData\Local\Programs\Microsoft VS Code\bin	Edit
C:\php	
	Browse

Click OKAY and do not does exit out, make sure it is installed, to check if it is installed, open up the command prompt (CMD, use windows search bar) and type:

Echo %PATH% -> if done correctly, this asserts that yes, there is a path to the PHP folder created

How To Deploy to a Web Server:

We will be using cheshire via <u>https://www-student.cse.buffalo.edu/</u> in which we must have PHP on the server with the server being able to handle PHP requests. We must set permission to allow access and for the execution of the PHP Files which can be done using CHMOD:

https://www.php.net/manual/en/function.chmod.php

CHESHIRE will use Apache as the server software can be better understood with the link below: <u>https://www.youtube.com/watch?v=KgUp3FomMoc</u>

The web server plays a crucial role in the context of FTP in web development and file management. FTP stands for File Transfer Protocol. FTP provides:

FTP client allows for authentication credentials (user/pass)

File transferring from client to server using \$_GET[key] and \$_POST[key]

Installation of FTP:

https://www.php.net/manual/en/ftp.installation.php

CHESHIRE is just a host, FTP will be how we add/remove files we intend to add to the website.

FTP Example Case:

```
<?php
// set up basic connection
$ftp = ftp connect($ftp server);
// login with username and password
$login result = ftp login($ftp, $ftp user_name, $ftp_user_pass);
// check connection
if ((!$ftp) || (!$login result)) {
  echo "FTP connection has failed!";
  echo "Attempted to connect to $ftp server for user $ftp user name";
  exit;
} else {
   echo "Connected to $ftp server, for user $ftp user name";
// upload the file
$upload = ftp put($ftp, $destination file, $source file, FTP BINARY);
// check upload status
if (!$upload) {
  echo "FTP upload has failed!";
} else {
   echo "Uploaded $source file to $ftp server as $destination file";
}
// close the FTP connection
ftp_close($ftp);
?>
```

Via https://www.php.net/manual/en/ftp.examples-basic.php