CS 547

Week 1 Day 1
Tools Installation

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Agenda

- Announcements
- Review of course syllabus and content
- Installation of Development Tools

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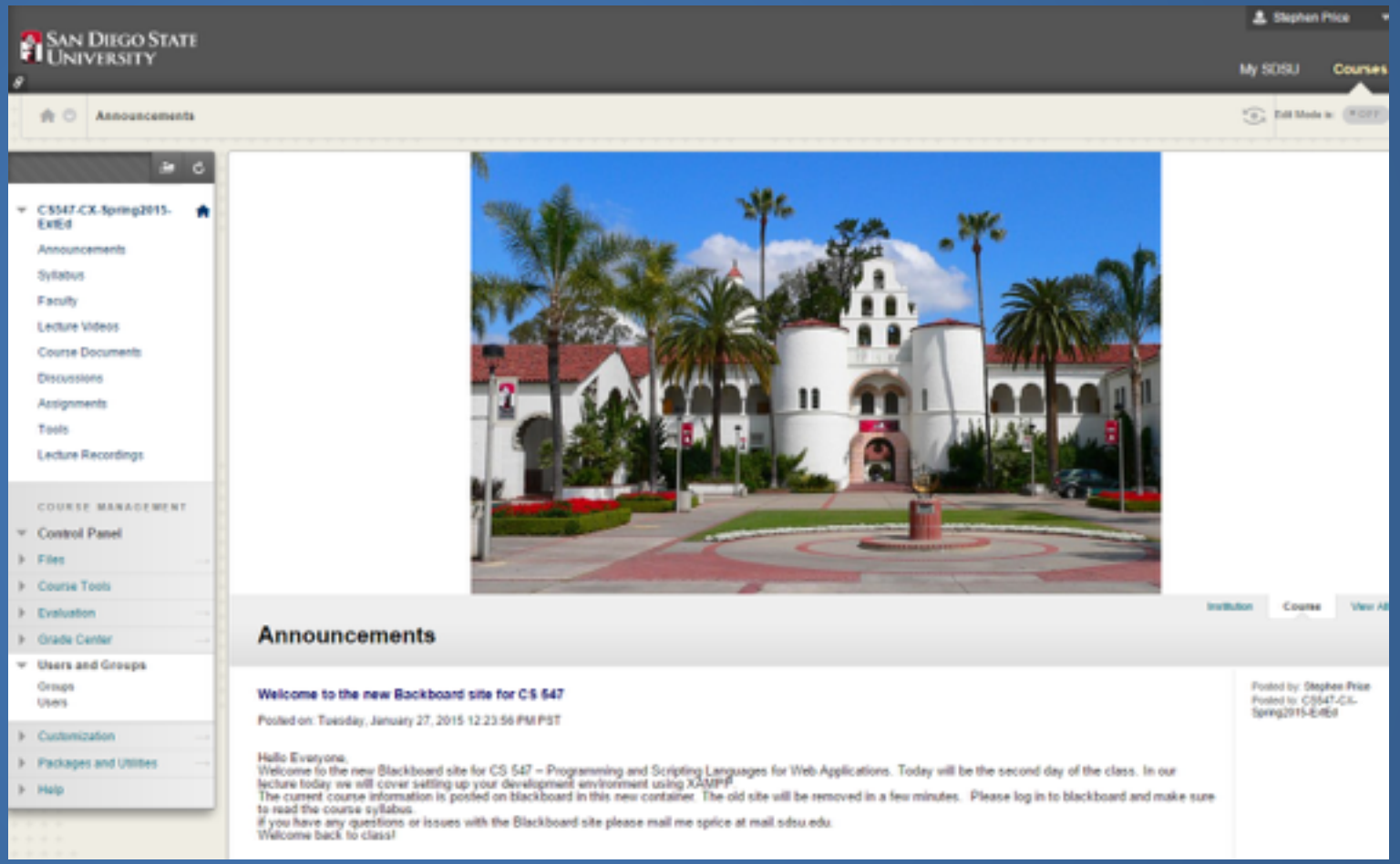
Announcements

- New black board container for course



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Syllabus

Syllabus is accessible from the black board container

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Development Tools

- We will be using a full stack development environment named XAMPP from apachefriends

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Dev Tools: XAMPP

- XAMPP is a cross platform popular development platform,
- X == Windows, OS X, or Linux platform
- A == Apache Web server
- M == MySQL data base
- P == PHP, Perl, and Later we will add Python

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Dev Tools: Download

Download XAMPP from ApacheFriends.Org web site.

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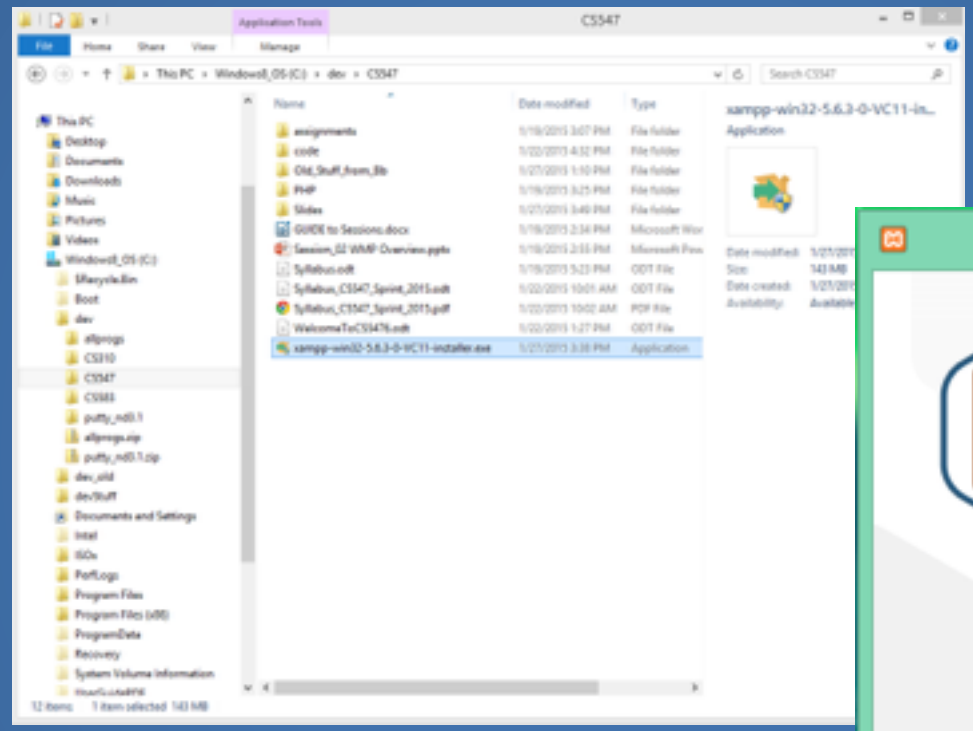
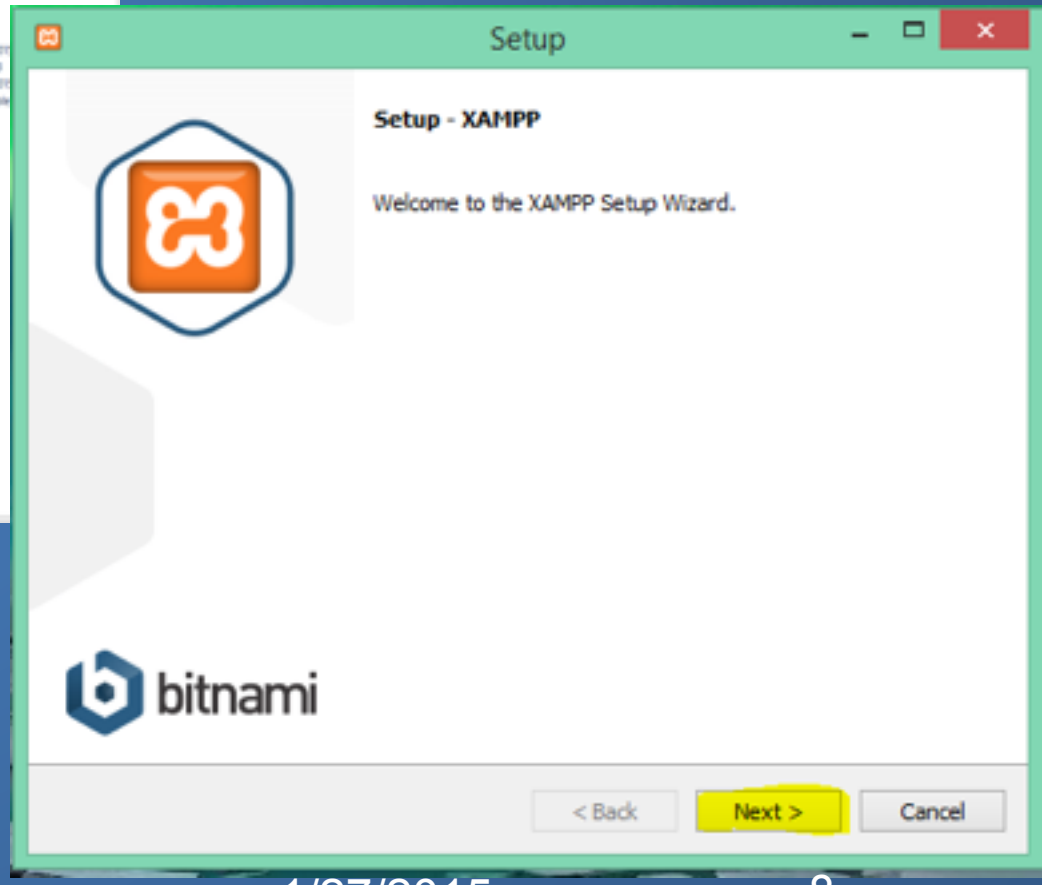
Dev Tools: XAMPP Installer

Note, the istaller will bother you about user permissions

And having anti virus software running





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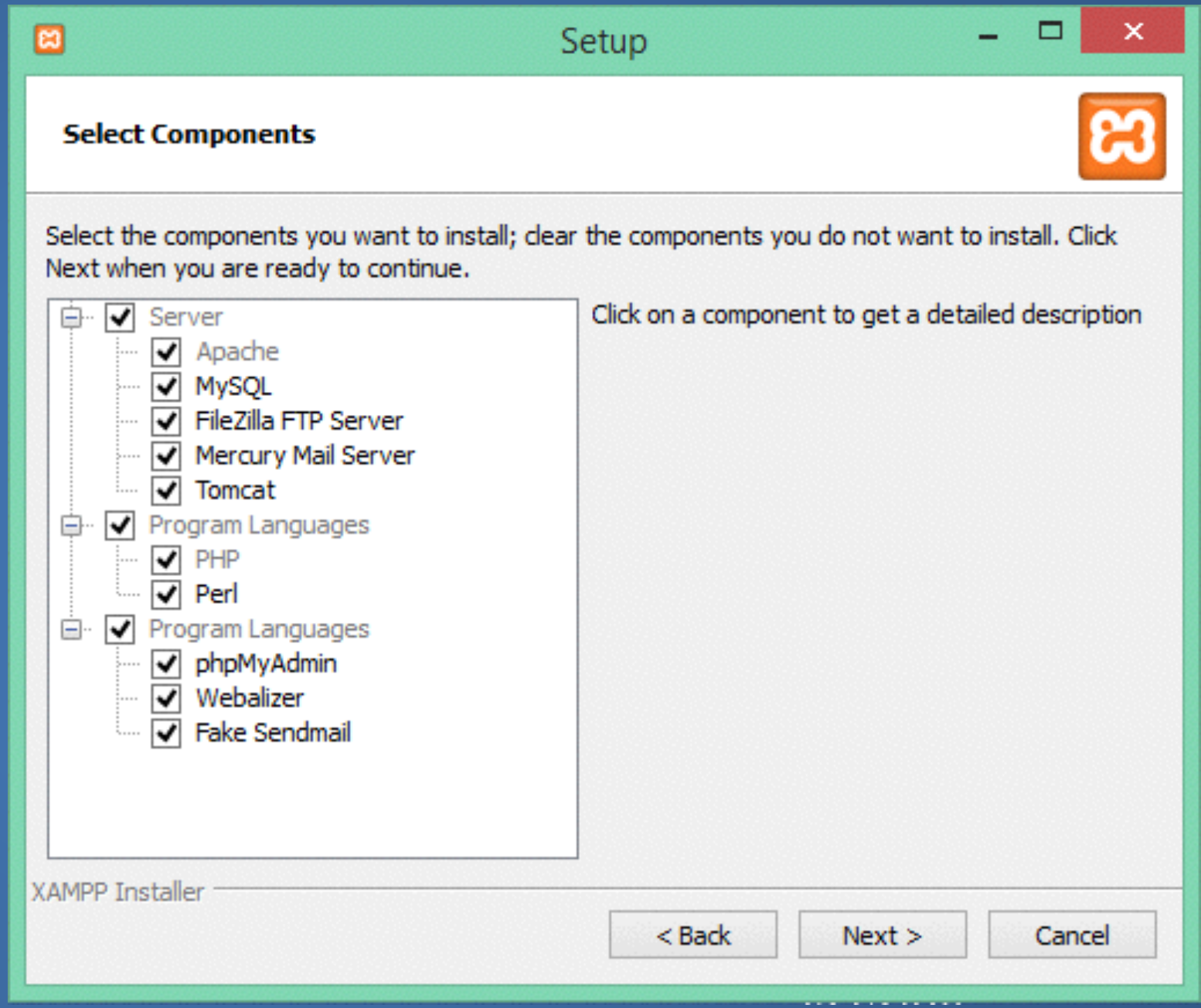
XAMPP Installer

Select the options you want to install…



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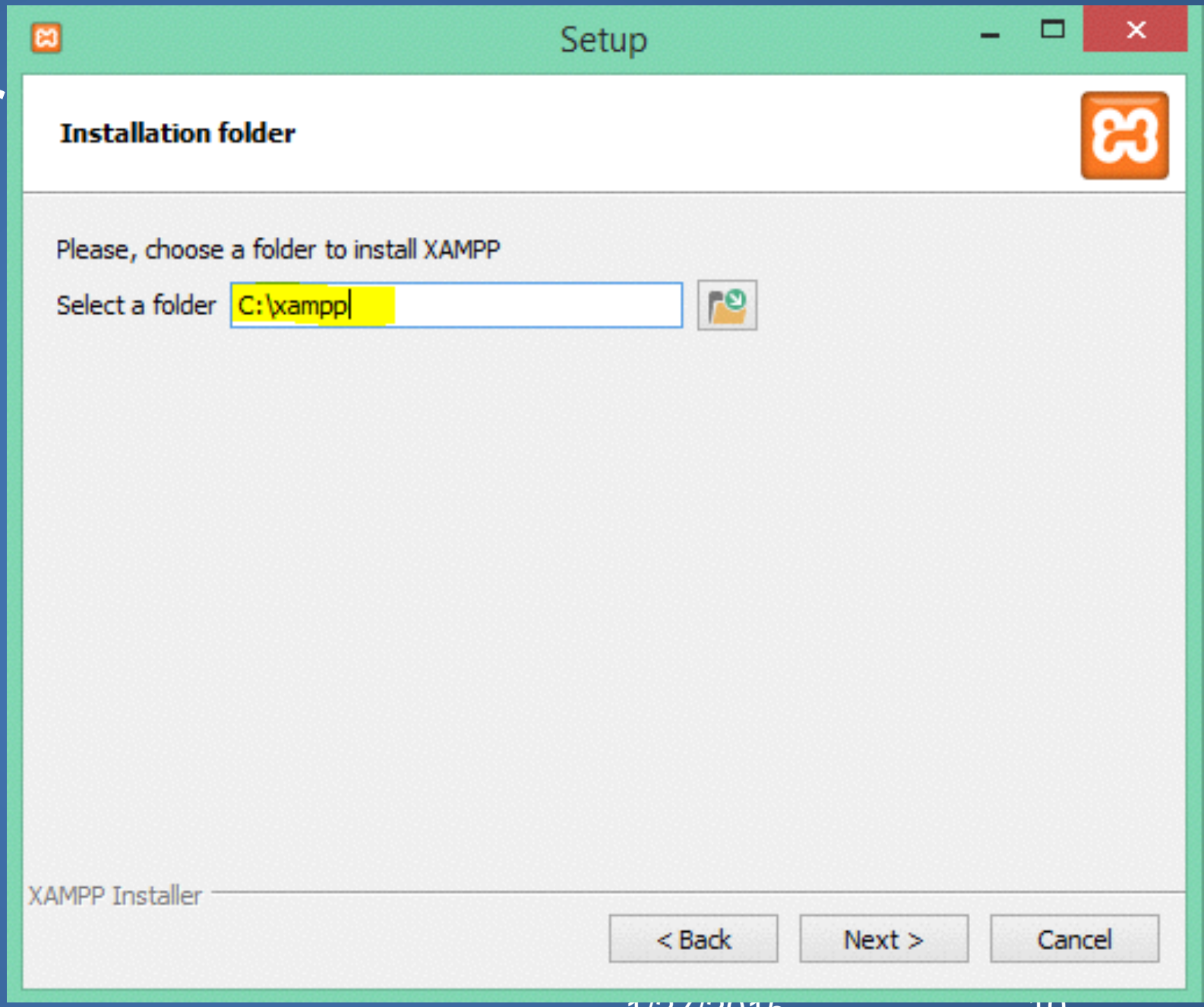
XAMPP Installer

Select the folder where you want to install.



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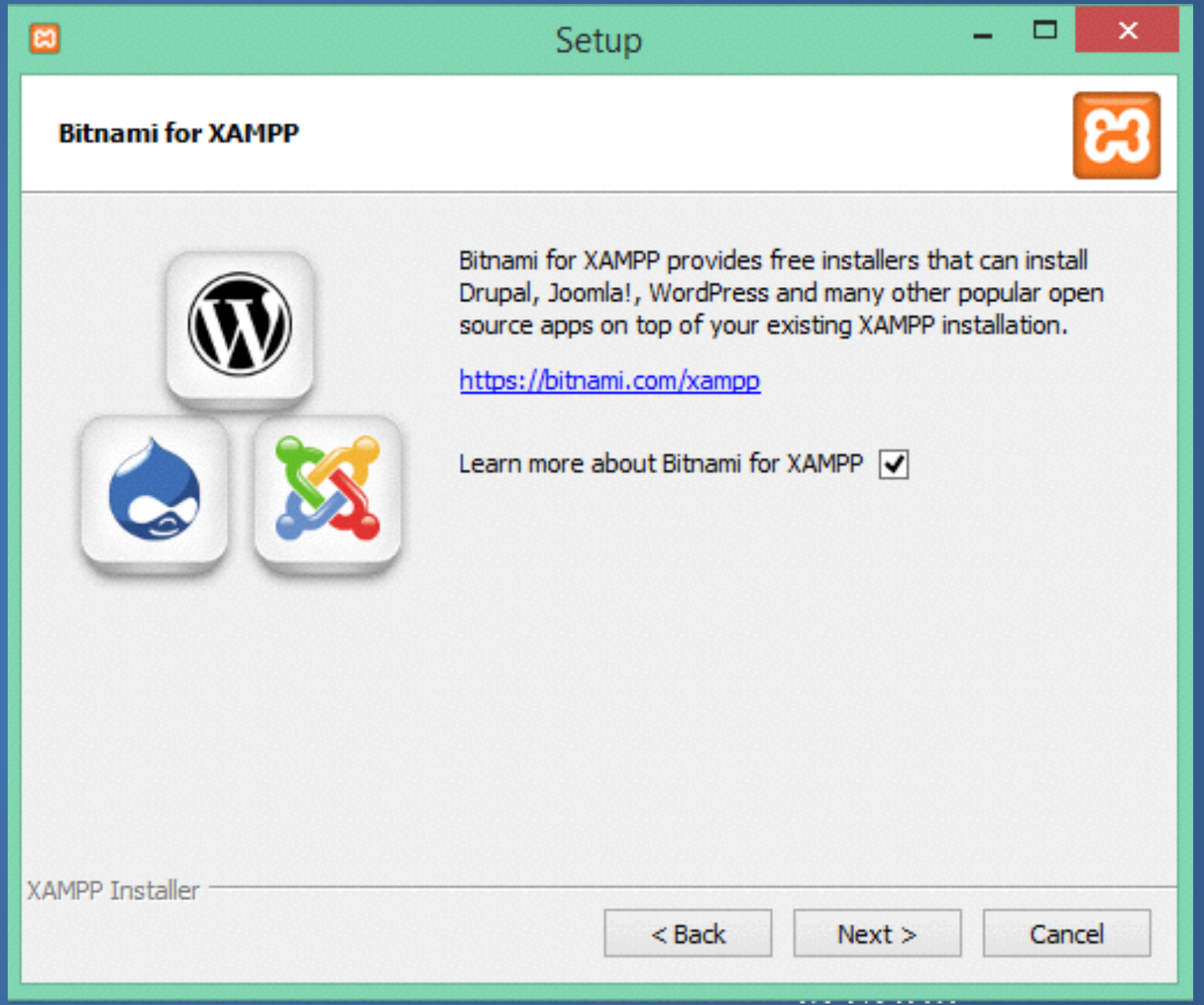
XAMPP Installer

Learn about optional packages. These are not used in our class.



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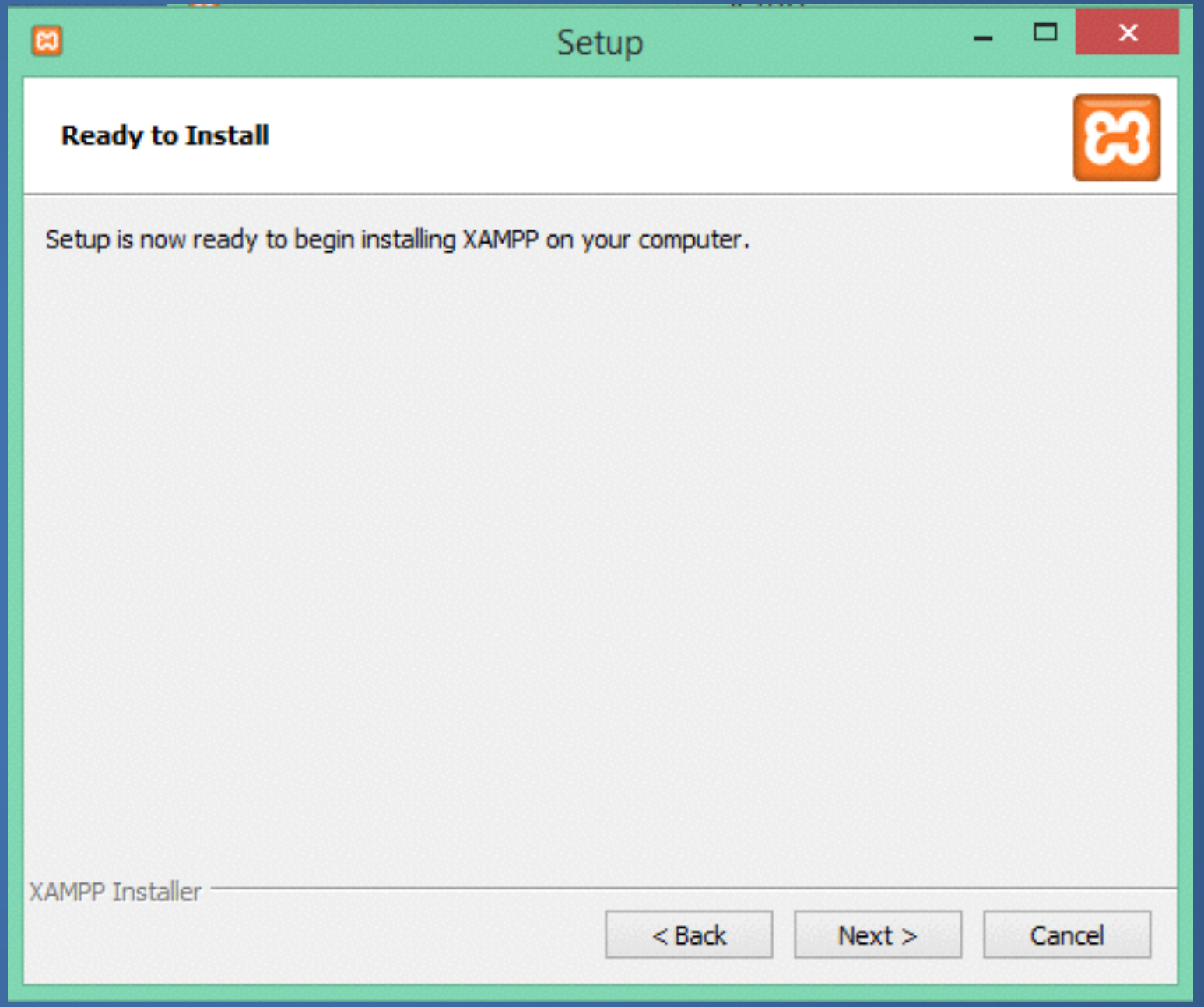
XAMPP Installer

Ready

Set

Go!



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XAMPP Installer

Wait till it finishes.

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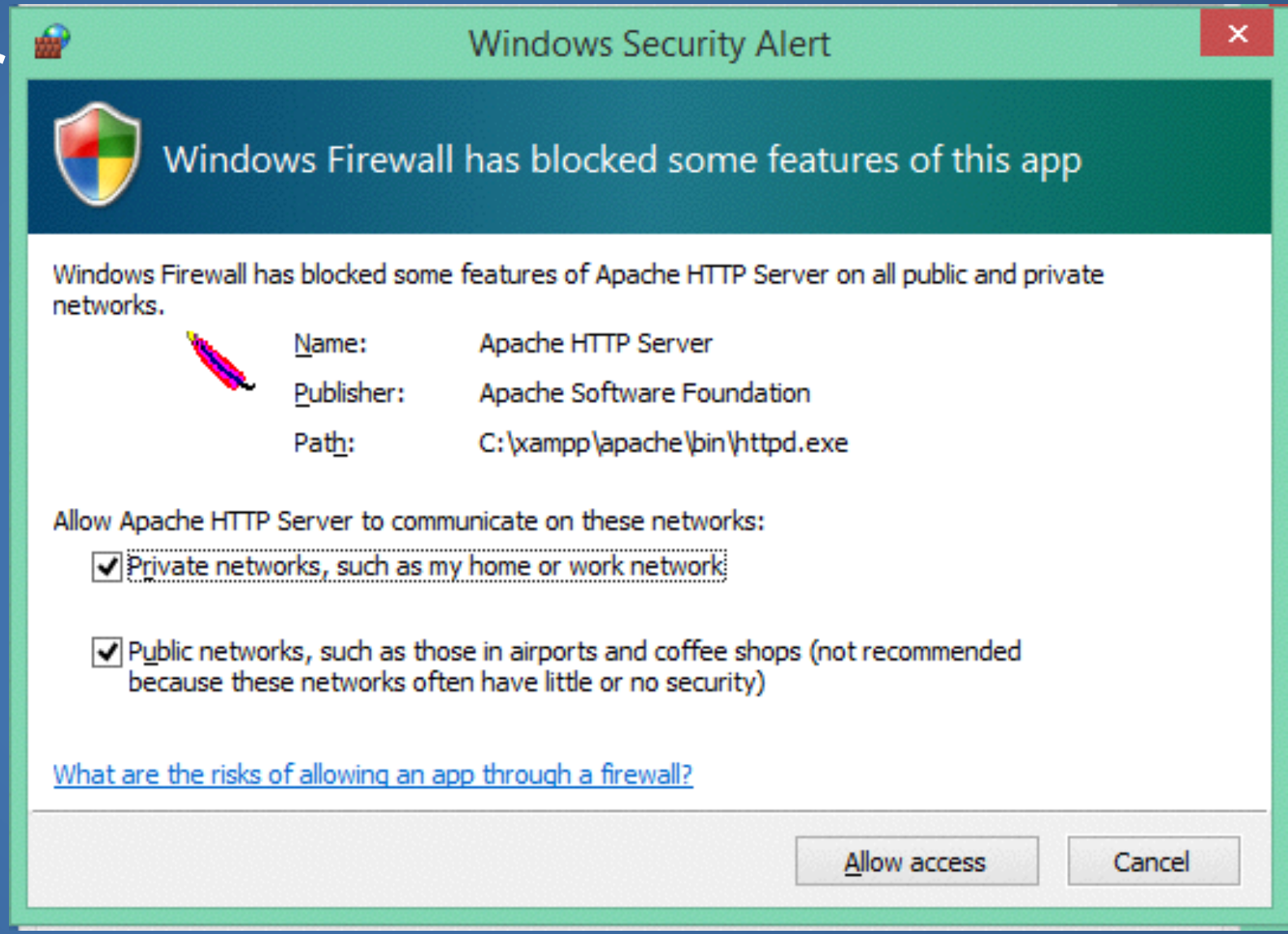
XAMPP Installer

You may see something like this…

Choose wisely!



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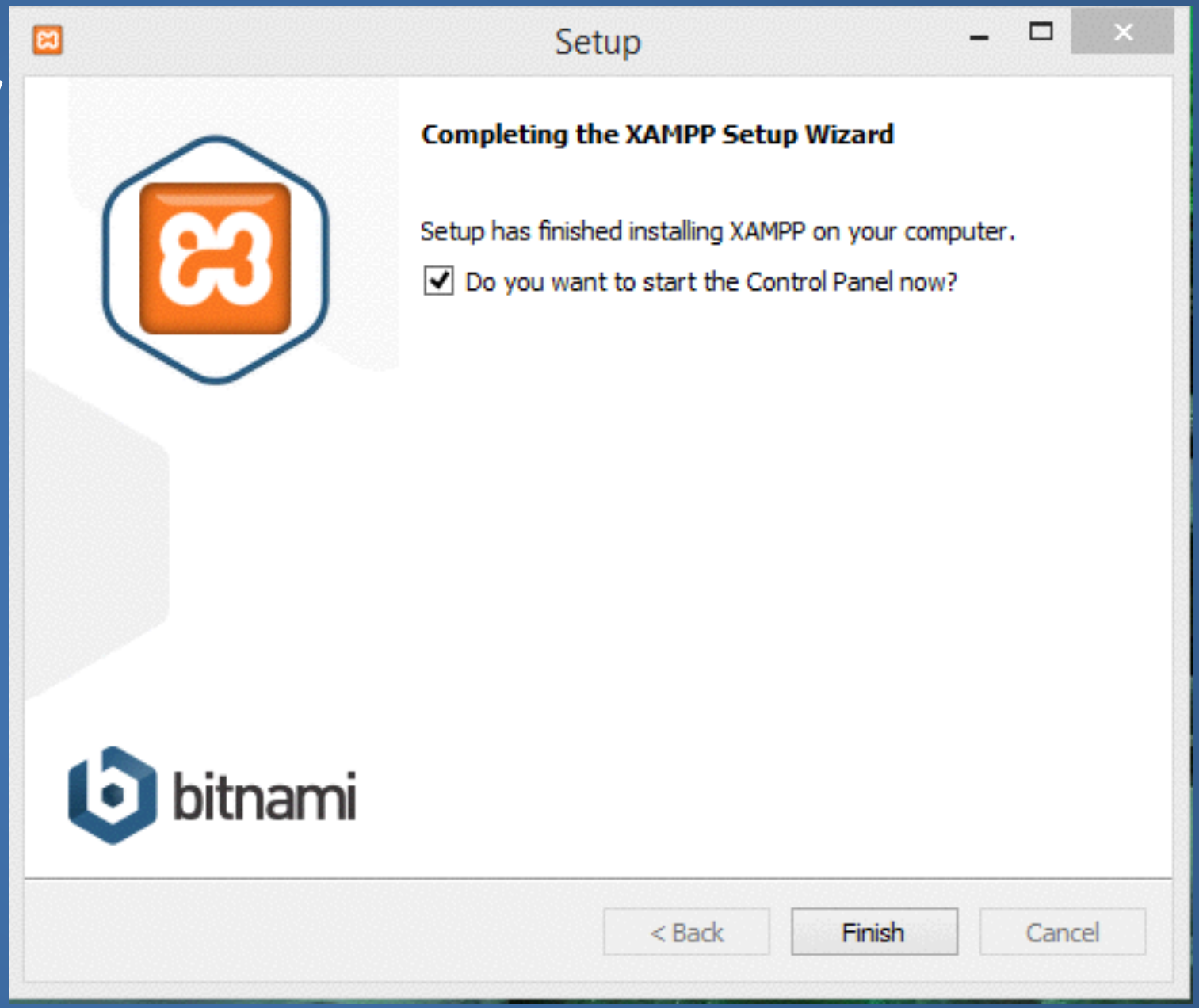
XAMPP Installer

Are we there yet???

Yes!



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XAMPP Installer

Now what do we do?

depends on your OS…

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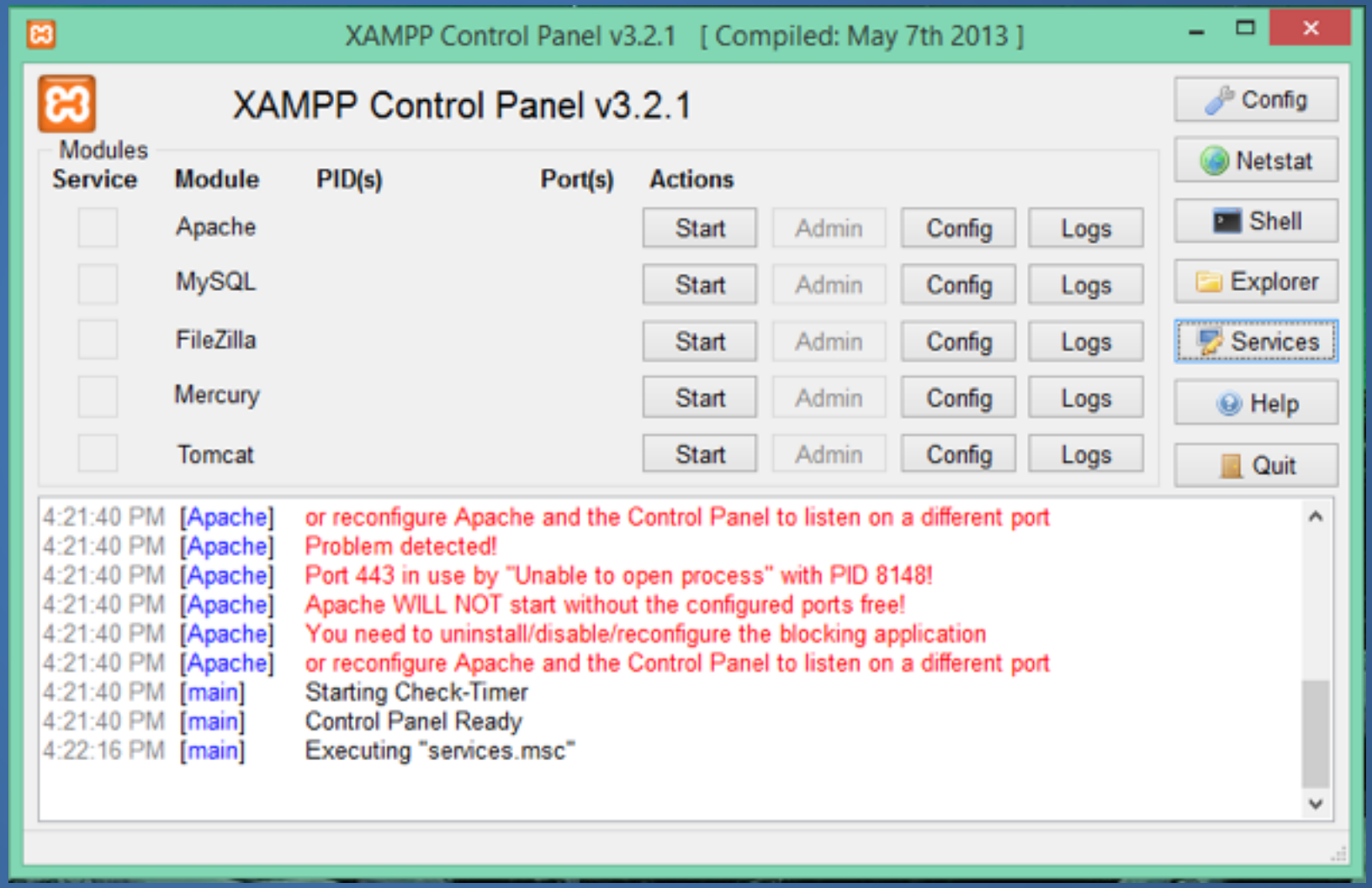
XAMPP Control Panel

To the rescue!

Use to start, stop and configure basic functionality



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XAMPP Live Demo

Switch to XAMPP Control Panel for live demonstration

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PHP Language

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PHP Language

PHP – an acronym that stands for PHP: Hypertext Preprocessor

Originally called the Personal Home Page

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PHP Language

Server side language

Type less language

Very powerful use for building dynamic web sites

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PHP Syntax

PHP files are text files that end in a .php extension

PHP code lives in a php file and is inbetween the php script delimeters

```
<?php
echo “hello class”;
?>
```

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PHP Language: Comments

PHP uses ‘c’ style comments

- Single Line using
- Single Line using #
- Block using /* … */

```
// This is a comment
# This is also a comment
/*
        This is a
        block comment
        section.
*/
```

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PHP Language Case Sensitivity

In php all keywords (e.g. if, else, while, echo, etc.), classes, functions, and user-defined functions are NOT case-sensitive.

```
<?php
ECHO "Hello Class”;
echo   "Hello Class”;
EcHo "Hello Class”;
  ?>
```

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PHP Language Case Sensitivity

However; all variable names are case-sensitive.

```
<?php
$color = "red";
echo "My car is " . $color ;
echo "My house is " . $COLOR ;
echo "My boat is " . $coLOR ;
?>
```

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PHP Variables

- All variables start with a **$**

$index = 0;

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PHP Variables

Because PHP is a loosely typed language one can have

```
$index = 1;
…
$index = “One”;
```

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PHP Variable rules

Must start with the $ sign, followed by the name of the variable

Must start with a letter or the underscore character

Cannot start with a number

Only contains alpha-numeric characters and underscores (A-z, 0-9, and _)

Variable names are case-sensitive

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PHP Special Variables

There are several ‘magic’ Predefined constant for you in PHP

Name	Meaning
__LINE__	***The current line number of the file.***
__FILE__	The full path and filename of the file with symlinks resolved. If used inside an include, the name of the included file is returned.
__DIR__	***The directory of the file. If used inside an include, the directory of the included file is returned. This is equivalent***
__FUNCTION__	The function name.

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PHP Special Variables – Magic Constants

Name	Meaning
__CLASS__	***The class name. The class name includes the namespace it was declared in (e.g. Foo\Bar). Note that as of PHP 5.4 __CLASS__ works***
__TRAIT__	The trait name. The trait name includes the namespace it was declared in (e.g. Foo\Bar).
__METHOD__	***The class method name.***
__NAMESPACE__	The name of the current namespace.

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PHP Variable Scope

PHP has three different variable scopes:

Local – Variables defined within a function
Global– Variables defined outside a function
Static – Variable exists inside a function, but does not loose its value when execution leaves this scope.

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