

Lesson38

PHP. Object Oriented Programming Composer

OOP

Final touches

- Late static binding
- Final Keyword
- PHP OOP Magic Methods

Basic principles of OOP

Basic principles

- **Encapsulation** - mechanism of hiding of data implementation by restricting access to public methods.
- **Abstraction** - abstract means a concept or an Idea which is not associated with any particular instance
- **Inheritance** - using Inheritance, In derived classes we can reuse the code of existing super classes.
- **Polymorphism** - It means one name many forms.

Composer

PHP dependency manager

- Composer provides a system to manage dependencies(packages) for PHP project
- Provide class and file's autoloading
- PSR-* autoloading (<https://www.php-fig.org/psr/psr-4/>)
- Tracks package information in **composer.json** file
- Tracks which versions of packages you have installed in a **composer.lock** file
- Installed packages are copied in “**vendor**” directory

Composer commands

Useful composer commands

- **composer init** - create composer.json file (not mandatory, you can create or copy existing composer.json manually)
- **composer install** - install dependencies
- **composer dump-autoload** - Dumps the autoloader
- **composer require --dev phpunit/phpunit** - install package (phpunit/phpunit - package name)
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