

Lesson41

PHP

Recursion

- A recursive function is one that calls itself, either directly or in a cycle of function calls
- Recursion function structure
- Factorial example
- Fibonacci example

Generators

- Generators are functions that provide a simple way to loop, through data without the need to build an array in memory
- Yield statement is similar to a return statement, except that instead of stopping execution of the function and returning, yield instead returns a Generator object and pauses execution of the generator function.

Design patterns

Types of software design patterns

- Creational
- Structural
- Behavioral
- And more..

Creational patterns

- Singleton
- Simple Factory
- Prototype

Structural patterns

- Dependency Injection (DI)
- Adapter
- Decorator
- Facade

Behavioral patterns

- Strategy
- Observer
- Visitor

Design pattern resources

Self learning

- <https://designpatternsphp.readthedocs.io/>
- <https://refactoring.guru/design-patterns/php>
- <https://phptherightway.com/pages/Design-Patterns.html>