

Web Programming (CSci 130)

Department of Computer Science
College of Science and Mathematics
California State University Fresno
H. Cecotti

CSci130 1

Learning outcome

- Object Oriented Programming (OOP) with PHP
 - >Clear structured code
 - better code organization
 - modularity
 - ➤OOP features in PHP
 - Added in PHP5
- Refreshment about OOP
 - ➤ Many similarities with other programming languages (like C++)

Introduction

Large websites

- >A large number of functionalities to be managed
- > Several people involved in the development
 - Importance of modularity, consistence in the code

PHP

- Like Javascript, it offers some flexibility for the declaration of functions
 - Easy for new comers in programming
 - Can be a curse for large projects
 - Constraints of the language vs. Rigor of the developers
- ➤ Like Java, C++, ...
 - PHP provides OOP features

Content

- Classes
- Objects
 - **≻**Assignment
 - ➤ Access/change properties
 - Private, protected, public
- Magic method and constants
- Object
 - **≻**Inheritance
 - **≻**Interface
 - **≻**Polymorphism

OOP syntax in PHP with examples

- Code and examples:
 - >pho_oop.php
 - /!\ The content in this file must be known for Midterm 2 & Final
 - To place in your folder C:\xampp\htdocs\mysite1
 - ➤ Start the server
 - ➤ Open the file in a browser

Exercise

- Create a class Person
 - ➤ With 2 subclasses
 - Student
 - Faculty/Staff
 - ➤ Relevant properties?
 - o First name, last name, email: common to both subclasses
 - List of courses (to attend)
 - List of courses (to teach)
 - ➤ Relevant functions?
 - Constructors
 - Get/Set

Conclusion

- OOP PHP
 - ➤ Not a gadget
 - ➤ Necessary to work/program properly
- The lab
 - **≻** PHP
 - Syntax + Object
 - > JS + AJAX + PHP
 - Send information from the client
 - Array of values
 - o Compute average, standard deviation, on the server
 - Package the results into a JSON object
 - Receive the results in the client and display them
- Questions?

