CODE 2 HIRE

CLASSROOM WEEK 2, DAY 2

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DAY
WEEK 2 - DAY 2

Functions Recap

* PHP has many built in functions that are extremely useful

* PHP.net has a Function Reference

  * Look there first to see if what you need to do is already available

* Who can tell me what the main purpose of functions are?

The DRY Principle

* (D)on't (R)epeat (Y)ourself

  * If you find yourself writing the same code over and over again, it is a good indication that it belongs in a function.

* As opposed to WET

  * (W)rite (E)verything (T)wice

  * (W)e (E)njoy (T)yping

FUNCTIONS, PART II

Exercise 1 - Built In Functions

∗ Using a combination of string, array, and math functions

   ∗ Cleanup the list of names in an array

   ∗ Pick a random name and save it in a variable

   ∗ Calculate an arbitrary score for the selected name

   ∗ Show the results!

Exercise 2 - User Defined Functions

* Can't find a function you need in PHP?

* Find yourself writing the same code over and over again (WET)?

* Consolidate your code inside your very own function!

Exercise 3 - Callbacks

* Earlier we used built in functions inside of our own user defined functions.

* Sometimes, you may want your user to provide a different function that you can then use inside of your own function. This is a callback.

* See: array_walk, array_filter, array_map, array_reduce, usort...

  * array_walk($names, 'strtoupper');

  * array_filter($address, 'strlen');

Exercise 4 - Pass By Reference

* When you pass parameters to your functions, they are copied

    * Read: "pass by value"

    * If you change it inside of your function, it will not change it outside

* This is called "scope" Your main script and it's functions have different "variable scopes" to prevent accidental changes

* If you want to modify the values you pass in, you must pass them by reference. How? (Hint: look at the documentation for array_walk)

Exercise 5 - Closures

* Also called "anonymous functions" because they have no name.

* Can be passed directly into functions that take callbacks, or saved to a variable.

* Useful when a function has a limited use, like a custom sorting function.

"Tell me and I forget, teach me and I may remember, involve me and I learn."

–Benjamin Franklin

CHALLENGES!