Functions

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Syntax of a function

```
function name($arg1,$arg2) {
  statement1;
  statement2;
}
```

- Function names are case insensitive
- Use meaningful names
- ullet Not called automatically
- Definition order does not matter

Function arguments

```
function say_hello_to($name){
    echo "Hey {$name}! <br/>";
}

$name="class";
say_hello_to($name);

• Arguments are scoped as local variables

function say_hello_with_title($name,$title="Honorable"){
    echo "Hey {$title} {$name} ";
}

$name="Anna";
$title="Ms";

say_hello_with_title($name,$title);
```

- Argument order must be maintained
- Predefined arguments must appear last

Returning values

```
<?php
function sum_over($val1,$val2){
        return $val1 + $val2;
        $val1=5;
        $val2=10;
  • Provides more flexibility
  • Easily testable (Try assert)
  • Always return a value
  • Function will stop executing immediately
<?php
function sum_over($val1,$val2){
        return $val1 + $val2;
}
$val1=5;
$val2=10;
echo $val1 + $val2;
```

• You must print out externally

Using functions inline

```
function chinese_zodiac($year){
        switch (($year-4)%12) {
                case 0: return 'Rat';
                case 1: return 'Ox';
                case 2: return 'Tiger';
                case 3: return 'Rabbit';
                case 4: return 'Dragon';
                case 5: return 'Snake';
                case 6: return 'Horse';
                case 7: return 'Goat';
                case 8: return 'Monkey';
                case 9: return 'Rooster';
                case 10: return 'Dog';
                case 11: return 'Pig';
        }
}
echo "2015 is the year of " . chinese\_zodiac(2015);
```

Complex return values

- Return more than one result
- Perform multiple related operations
- Can you format the results?

Assignment

- Write a function that calculates area of a triangle given its base and height
- $\bullet\,$ Write a function that calculates area of a circle given its radius
- \bullet Write a function that calculates area and circumference of a circle given its radius