

# Lesosn 3: Functions, Loops and Forms Processing

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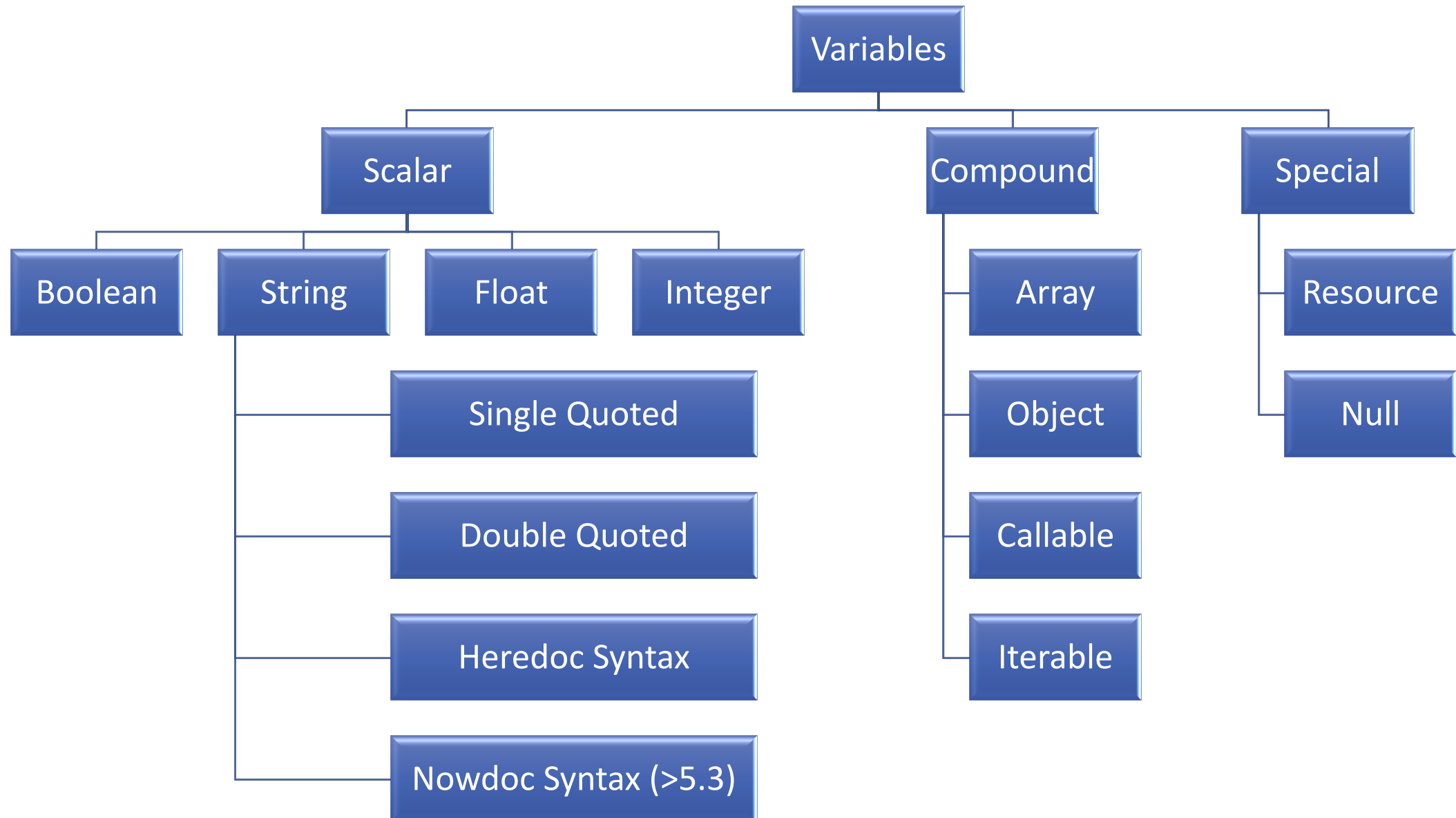
## TOPICAL OUTLINE:

Week	Module	Outcome(s)	Content / Activities	Resources
1	1	1	<ul style="list-style-type: none"> <li>- History of PHP</li> <li>- Client-server interaction and dynamic pages</li> </ul>	Ch 1
	2	1	<ul style="list-style-type: none"> <li>- PHP environment setup &amp; configuration</li> <li>- Text Editors &amp; IDEs</li> </ul>	Ch 1

			<ul style="list-style-type: none"> <li>- PHP Documentation and ini</li> </ul>	
	3	1	<ul style="list-style-type: none"> <li>- PHP Hello World - Embedding PHP in HTML</li> <li>- Code Review: Simple PHP Application.</li> </ul>	Ch 1
	4	1	<ul style="list-style-type: none"> <li>- Organizing PHP application</li> <li>- Templating include and required statement</li> </ul>	PHP.net <a href="#">Include</a> <a href="#">Require</a>
2	1	1, 2, 3,4	<ul style="list-style-type: none"> <li>- PHP identifiers data types and rules</li> <li>- PHP variable types</li> <li>- PHP variable scope</li> </ul>	Ch 2
	2	1, 2, 3,4	<ul style="list-style-type: none"> <li>- PHP numerical arrays</li> <li>- PHP associative arrays</li> </ul>	Ch 11
	3	1, 2, 3,4	<ul style="list-style-type: none"> <li>- PHP expressions and operators</li> <li>- Arithmetic and string operators</li> </ul>	Ch 8

	4	1, 2, 3,4	<ul style="list-style-type: none"> <li>- HTML form review</li> <li>- Accessing request parameters</li> <li>- Accessing form elements values</li> <li>- PHP Superglobals</li> </ul>	Ch 2
	5	1, 2, 3,4	<ul style="list-style-type: none"> <li>- PHP built-in functions</li> <li>- Array operations and functions</li> </ul>	Ch 2
3	1	1, 2, 3,4	<ul style="list-style-type: none"> <li>- PHP conditional statements</li> <li>- PHP equality and identify operators</li> <li>- PHP logical and relational operators</li> </ul>	Ch 2
	2	1, 2, 3,4	<ul style="list-style-type: none"> <li>- PHP Control statements</li> <li>- If/else/elseif/switch statement</li> </ul>	Ch 2
	3	1, 2, 3,4	<ul style="list-style-type: none"> <li>- PHP Iteration statements</li> <li>- While/do While/for loop</li> <li>- Break, continue and exist statements</li> </ul>	Ch 2
	4	1, 2, 3,4	<ul style="list-style-type: none"> <li>- Alternative control structures syntax</li> </ul>	<a href="#">Php.net</a>
4	1	1,2,3,4	<ul style="list-style-type: none"> <li>- Date and string functions</li> </ul>	Ch 9, 10
	2	4	<ul style="list-style-type: none"> <li>- PHP regular and anonymous functions</li> <li>- PHP function structure and features.</li> </ul>	Ch 13
	3	4	<ul style="list-style-type: none"> <li>- PHP function arguments and return</li> </ul>	Ch 13

- PHP is a scripting language i.e. it is used to generate codes of HTML
- PHP is *weakly* typed language i.e. the type of variable does not have to be defined
- PHP is *dynamically* typed language i.e. the type of variable can be change as well
- Difference between single quoted and double quoted strings
- How to write if-else conditions
- Echo



- var\_dump and print\_r
  - var\_dump: Prints all the information about the variable
  - Print\_r : Also prints information about the variable but in a human readable format

- An array in PHP is actually an ordered map. A map is a type that associates *values* to *keys*.

```
Array
(
    [0] => Maksim
    [1] => Ilya
    [2] => Avanindra
)
```

Numerical Array

```
Array
(
    [color] => red
    [taste] => sweet
    [shape] => round
    [name] => apple
    [0] => 4
)
```

Associative Array

- Demonstration: 2.Array
- You may give keys to only the values you like, the keys to other values will be simply incremented from the last integer value.

- Demonstration: 3.forms
- action = Page where you want to redirect after filling the form
- Method = post/get
- Use Global variables `$_POST` / `$_GET` to get the value of the names of form elements filled in the form.



```
function exampleFunction($arg_1, $arg_2, /* ..., */ $arg_n="Defulat Value")  
{  
    echo "Example function.\n";  
    return $return;  
}
```

- 4. Definition
- 5. Create Use arrays, forms processing, looping and functions together
- 6. ForEach Loop and key value pair
- 7. Get variable number of arguments
  - `func_get_args`
  - `func_num_args`
  - `func_get_arg[5]` – get argument with index 5

- Arrow function
- Anonymous function.
- useLibrary
- Variable Function