Intro to Web Programming with PHP

Lesson 2

What are data types?

- How do u present them?

- **Simple** data types (non-composite, scalar):

  - Strings, Integers, Boolean

- **Complex**, multi-dimensional, composite:

  - Array, Object

- Resource (file, DB connection)

How do I store these data & pass them around?

- Within the same PHP file.

  - **Variable** - container of information, info can be of any type & can be changed anytime

  - **Constants** - Another kind of container where once the info is set, you cannot change it.

How do I store these data & pass them around?

- Between different PHP files.

    - **URL** parameters
      (eg. http://localhost/hello.php?name=Michael)

    - **HTML Form** (POST/GET)

    - **Cookie** - Pieces of info related to a website visitor stored in the web browser

    - **Session** Variables - Information related to a website visitor stored in the web server

When to use which method?

- Is it changeable?

- How big is the data?

- How sensitive is the data?

- Passed within the same file?

- Passed between between pages in the same site?

- Passed between different web sites (domain name)

Learning PHP Syntaxes

- As with learning any language, you need to learn about how to use it properly.

- Today we will learn more about the vocabulary, the sentence structure and rules on constructing coherent "sentences" in PHP.

Learning PHP Syntaxes

- PHP script starts and ends with PHP tag.

- Read (interpreted) from top to bottom.

- End each line with semi-colon ;

- Data types & variables.
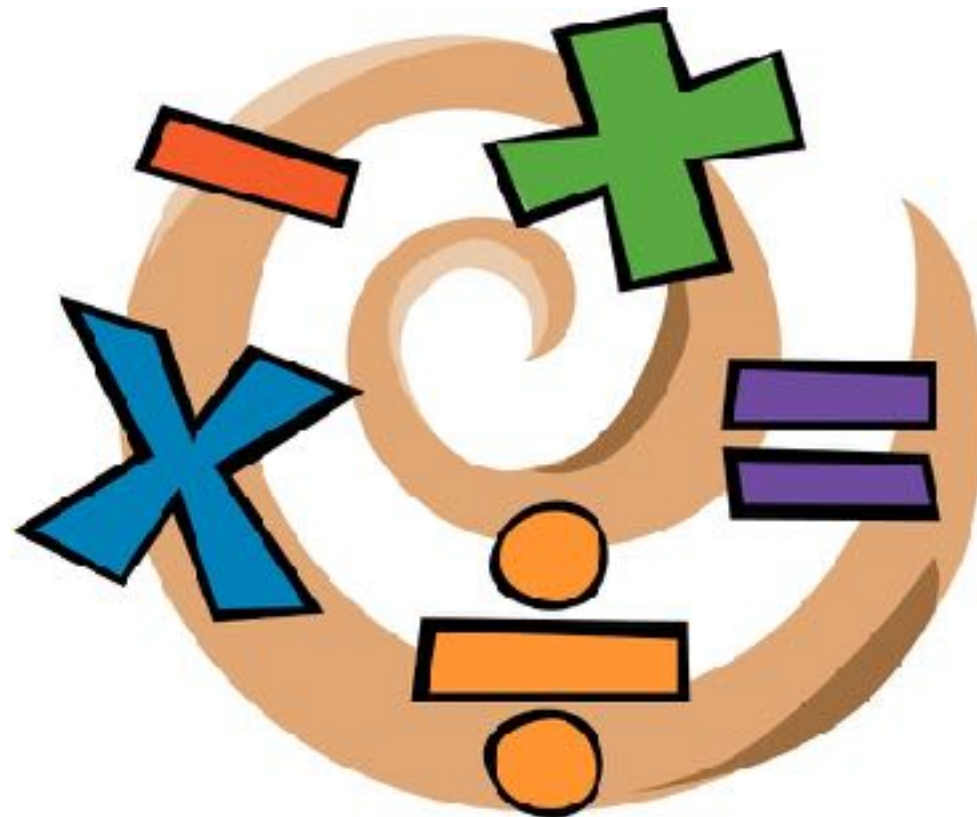
- Super Global Arrays. $_GET, $_POST...

- // Commenting

What are Operators?

What are Operators?

- An operator is something that takes one or more values and yields another value.

- eg. Maths equations

What are Operators?

- Arithmetic Operators + - * /

- Assignment Operators =

- Comparison Operators == != > <

- Incrementing/Decrementing Operators ++ --

- Logical Operators && || XOR

- String Operators . .=

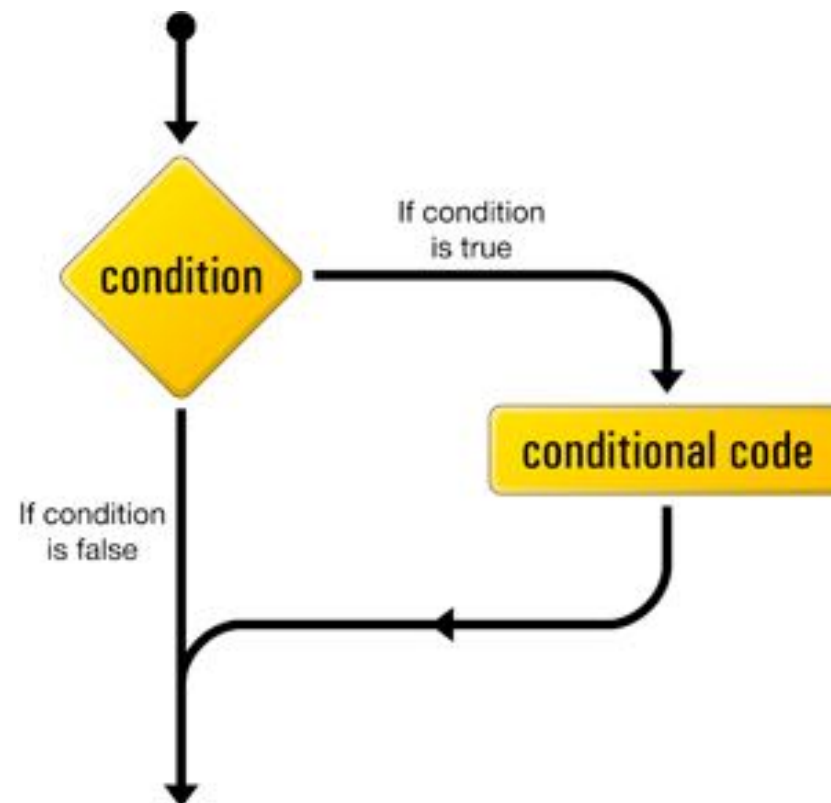# Adding Artificial Intelligence to your code

Adding Artificial Intelligence to your code

- Control structures are a way of grouping your PHP statements together such that only when certain conditions are met, they will be run.
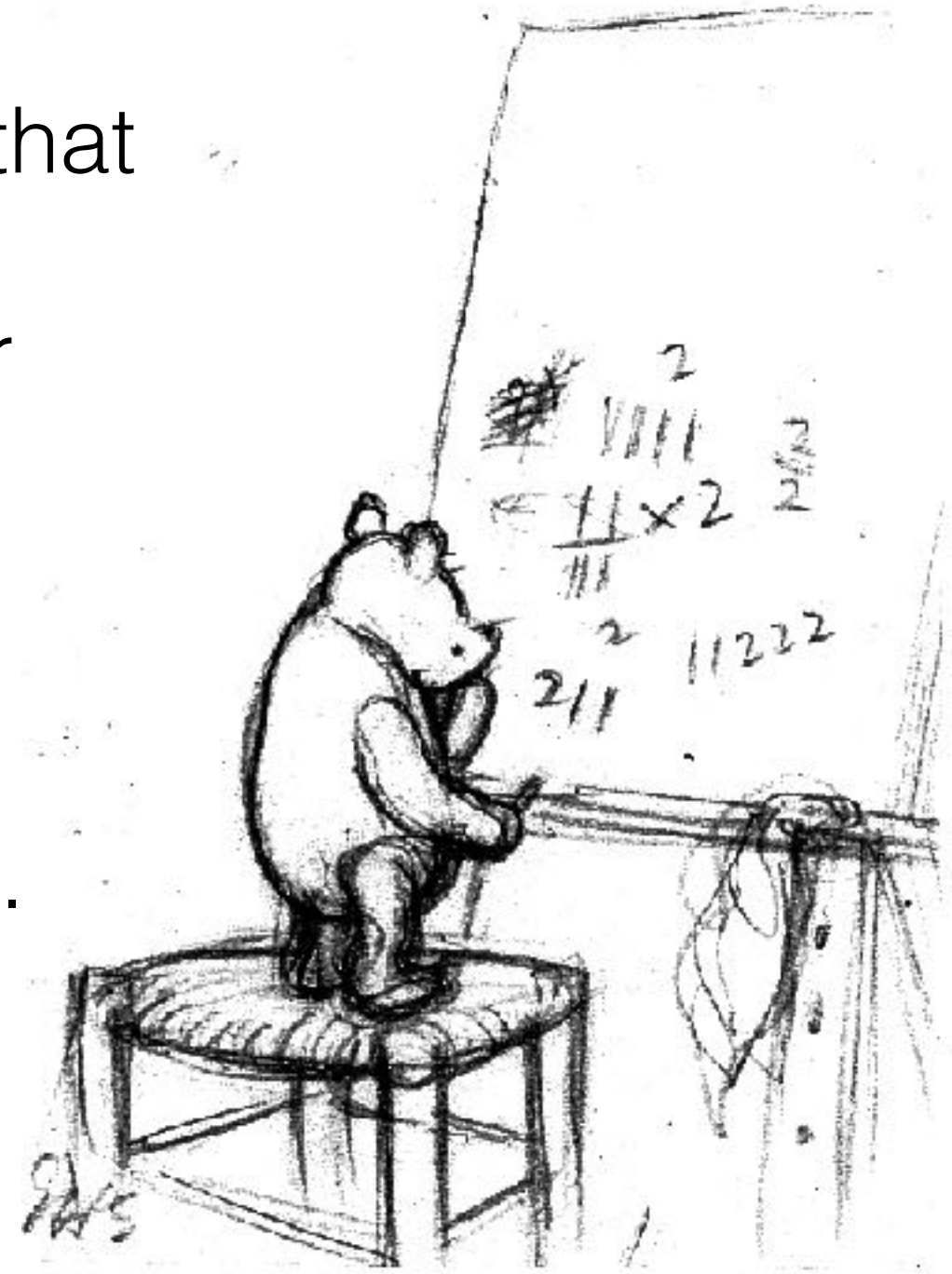
- If... Else

- For

- Foreach

What are Arrays?

- Complex, multi-dimensional, composite data type.

- Numeric array & associative array

  - $arr = array();

  - $arr = array(1,3,5,7,9);

  - $arr = array("a"=>"Apples", "b"=>"Bubble");

What are Functions?

- Grouping of PHP commands that are used very often - stop repeating yourself over & over again.

- Grouped with curly braces { }

- Reference with function name.

- Always returns a value.

What are Functions?

- How do we passing data into a function?

  - Arguments (setting default values, compulsory vs optional arguments)

- Variable scopes - Global vs Function scope

  - Variables used in a function are not available outside the function.

Manipulating Arrays

- Array functions

  - array_merge

  - array_keys

  - sort, rsort, ksort, krsort

  - shuffle

  - in_array

End of Lesson 2