

`<html>``<head>``<title>Information Gathered</title>``</head>``<body>``<!--`

You embed PHP code between tags
 echo puts what ever is between quotes in the browser

php code doesn't show if a user tries to view source

A semicolon has to finish every php statement

Single quotes : Print what is between them and ignore
 escape sequences except for \ ' and \\\

Double quotes : Print many escape sequences, the values
 for variables, and more

`-->``<?php`

`/* Multiline
 comment */`

`// Single line comment`

`# Another single line comment`

`echo "<p>Data Processed at </p>";`

`// Define the time zone based on the coordinated universal time
 date_default_timezone_set('UTC');`

`/* Echos the date
 h : 12 hr format
 H : 24 hr format
 i : Minutes
 s : Seconds
 u : Microseconds
 a : Lowercase am or pm
 l : Full text for the day
 F : Full text for the month
 j : Day of the month
 S : Suffix for the day st, nd, rd, etc.
 Y : 4 digit year
 */`

`echo date('h:i:s:u a, l F jS Y e');`
`echo "</p>";`

`/*`

You store values in variables that have a name
 that starts with a \$

Variables can be of any length and contain letters,
 numbers, or underscores

They can't begin with a digit and are case sensitive.
 num0fCats is not equal to numofcats

A variable is created and given a data type when it
 receives a value. That data type can change based on
 if the data is changed.

- Integer : Whole Numbers
- Float : Decimal Numbers
- String : Strings or characters
- Boolean : true or false
- Array : Multiple Items

COMMENTS
 IN HTML

COMMENTS IN PHP

[questo è importante]

*a questo punto puoi
 tranquillamente
 usare questi*

f. Object : A Object defined by a class

A variable by default gets the value NULL

You can access values from the html that called this php script to execute by putting the name assigned in the html in single quotes

The data is stored in an array which is named \$_POST

```
*/
$username = $_POST['username'];
$streetAddress = $_POST['streetaddress'];
$cityAddress = $_POST['cityaddress'];
```

```
echo '<p>Your Information</p>';
```

```
// You can combine variables with text using a .
```

```
echo $username. ' lives at </br>';
echo $streetAddress. ' in </br>';
echo $cityAddress. ' </br></br>';
```

```
/*
```

You can define text using heredoc syntax in the same way you use double quotes. Starts with <<< and an identifier that can't be used any place else in the text. It ends with the identifier and a semicolon without any white space or anything else.

```
*/
$str = <<<EOD
The customers name is
$username and they
live at $streetAddress
in $cityAddress</br></br>
```

```
echo $str;
```

```
/*
```

You can define constants that's value can't change. When we call for a constant we don't use a \$ and they are normally uppercase

```
*/
define('PI', 3.1415926);
```

```
echo "The value of PI is " . PI;
```

```
// Arithmetic operators
```

```
echo "</br></br>5 + 2 = " . (5 + 2);
echo "</br>5 - 2 = " . (5 - 2);
echo "</br>5 * 2 = " . (5 * 2);
```

```
// You can cast from 1 type to another like this
```

```
echo "</br>5 / 2 = " . (integer) (5 / 2);
echo "</br>5 % 2 = " . (5 % 2) . "</br></br>";
```

```
// Use this shortcut when performing an operation using
// the same variable +=, -=, *=, /=, %=, .=
```

```
$randNum = 5;
echo $randNum += 5;
```

```
echo "</br></br>";
```

```
// You can increment and decrement with this shortcut
```

```
echo "++randNum = " . ++$randNum . "</br>";
echo "randNum++ = " . $randNum++;
```

I nomi delle variabili cominciano con \$ seguito da una lettera

accedo alle componenti 'username' dell'array \$_POST

strings concatenation
break (per andare a capo)

EOD; NO white space here!

permette di definire multiple lines strings

modulo

\$randNum=5;
echo ++\$randNum; → 6
echo \$randNum++; → 6
echo \$randNum; → 4

prima incrementa e poi prosegue
prima stampa \$randNum e poi lo incrementa

```

echo "</br></br>";

/*
    The reference operator (ampersan / &) can create a
    reference to a variable so if one changes so does the
    other
*/
$refToNum = &$randNum;
$randNum = 100;
echo '$refToNum = ' . $refToNum;

echo "</br></br>";

// Comparison Operators : ==, !=, <, >, <=, >=
// === (Equal & Same Type), !== (Not Equal or Same Type)
// An if block will perform one action or another depending
// on conditions
if(5 == 10){
    echo '5 = 10';

} else {
    echo '5 != 10';
}

echo "</br></br>";

/*
    elseif is used when you have more conditions to check
*/
$numOfOranges = 4;
$numOfBananas = 36;

if(($numOfOranges > 25) && ($numOfBananas > 30)){
    echo '25% Discount';
} elseif (($numOfOranges > 30) || ($numOfBananas > 35)){
    echo '15% Discount';
} elseif (!($numOfOranges < 5) || (!($numOfBananas < 5))){
    echo '5% Discount';
} else {
    echo 'No Discount For You';
}

echo "</br></br>";

// The ternary operator assigns one or another value
// depending on the condition
// condition ? value if true : value if false

$biggestNum = (15 > 10) ? 15 : 10;

echo 'Biggest Number is ' . $biggestNum;

echo "</br></br>";

// Switch provides different actions depending upon values
switch($usersName) {

```

```

    case "Derek" :
        echo "Hello Derek";
        break;

```

se \$usersName
è Derek stampa

"Hello Derek", e esci dagli switch

usa switch se esiste
un # limitato di
possibilità

Noto le single quotes adesso

curly bracket


```

        case "Sally" :
            echo "Hello Sally";
            break;

        default :
            echo "Hello Valued Customer";
            break;
    }

    echo "</br></br>";

    // The while loop performs actions until a condition is met
    $num = 0;
    while($num < 20){
        echo ++$num . ', ';
    }

    echo "</br></br>";

    // The for loop performs actions until a condition is met
    // like the while, but it a compact way
    for($num = 1; $num <= 20; $num++){
        echo $num;

        if($num != 20){
            echo ', ';
        } else {
            break; // or exit() to leave the whole script
        }
    }

    echo "</br></br>";

    // An array can store multiple values
    $bestFriends = array('Joy', 'Willow', 'Ivy');

    // You can access an item by index starting with 0
    echo 'My wife ' . $bestFriends[0];

    echo "</br></br>";

    // You can add an item by storing in a unused index
    $bestFriends[4] = 'Steve';

    echo 'My friend ' . $bestFriends[4];

    echo "</br></br>";

    // You could cycle through the array with for or foreach
    foreach($bestFriends as $friend){
        echo $friend . ', ';
    }

    echo "</br></br>";

    // You can create key value pairs in arrays
    $customer = array('Name'=>$usersName, 'Street'=>$streetAddress, 'City'=>

```

Molto
simile
al
C
come
sintassi

→ ultimo; NOI va in array fault

→ questo è l'equivalente
del python
for friend in bestFriends

→ questa è una mappa chiave-valore

```
$cityAddress);
```

```
foreach($customer as $key => $value){
```

```
    echo $key . ' : ' . $value . '<br>';
```

```
}
```

```
echo "<br><br>";
```

```
// You can combine arrays with +
```

```
$bestFriends = $bestFriends + $customer;
```

```
foreach($bestFriends as $friend){
```

```
    echo $friend . ', ';
```

```
}
```

```
// Other common array operators
```

```
// == : Returns true or false if arrays are equal
```

```
// != : Returns if not equal
```

```
// === : Returns if the same items, same order and data type
```

```
echo "<br><br>";
```

```
// Multidimensional arrays are arrays in arrays
```

```
$customers = array(array('Derek', '123 Main', '15212'),  
                    array('Sue', '124 Main', '15222'),  
                    array('Bob', '125 Main', '15212'));
```

```
for($row = 0; $row < 3; $row++){
```

```
    for($col = 0; $col < 3; $col++){
```

```
        echo $customers[$row][$col] . ', ';
```

```
    }
```

```
    echo '<br>';
```

```
}
```

```
// Common Array Functions
```

```
// sort($yourArray) : Sorts in ascending alphabetical order or
```

```
// if you add , SORT_NUMERIC or , SORT_STRING
```

```
// asort($yourArray) : sorts arrays with keys
```

```
// krsort($yourArray) : sorts by the key
```

```
// Put a r in front of the above to sort in reverse order
```

```
echo "<br><br>";
```

```
// Strings store a series of characters
```

```
$randString = "          Random String          ";
```

```
// You can trim white space with ltrim, rtrim, or trim
```

```
echo strlen($randString) . "<br>";
```

```
echo strlen(ltrim($randString)) . "<br>";
```

```
echo strlen(rtrim($randString)) . "<br>";
```

```
echo strlen(trim($randString)) . "<br>";
```

```
echo "<br><br>";
```

```
// printf allows you to print formatted Strings to the screen
```

```
echo "The randomString is $randString <br>";
```

```
printf("The randomString is %s <br>", $randString);
```

questo è l'array sul quale vuoi lavorare

memo: questo concatena

N.B: gli array sono concatenati, ma hanno chiavi diverse

questo taglia gli spazi bianchi a sinistra

questo leva lo spazio bianco sia a sinistra sia a destra

stringa

essì, vedi, proprio come il c

```
// Conversion codes are useful with decimals
$decimalNum = 2.3456;
printf ("decimal num = %.2f </br>", $decimalNum);
```

```
// Other conversion codes
// b : integer to binary
// c : integer to character
// d : integer to decimal
// f : double to float
// o : integer to octal
// s : string to string
// x : integer to hexadecimal
```

```
printf ("10 to binary %b </br>", 10);
```

```
echo "</br></br>";
```

```
// String case functions
```

```
echo strtoupper($randString) . "</br>";
echo strtolower($randString) . "</br>";
echo ucfirst($randString) . "</br>";
```

```
echo "</br></br>";
```

```
// Turning strings into arrays and vice versa
```

```
$arrayForString = explode(' ', $randString, 2);
```

```
$stringToArray = implode(' ', $arrayForString);
```

```
echo "</br></br>";
```

```
// Get part of a string
```

```
$partOfString = substr("Random String", 0, 6);
```

```
echo "Part of String $partOfString </br>";
```

```
echo "</br></br>";
```

```
// Comparing Strings
```

```
$man = "Man";
$manhole = "Manhole";
```

```
// Returns 0 is equal
```

```
// Returns positive if str1 is greater then str2
```

```
// Returns negative if str1 is less than then str2
```

```
→ strcmp() isn't case sensitive
```

```
echo strcmp($man, $manhole) . "</br>";
```

```
echo "</br></br>";
```

```
// strstr() returns every character after the sting to look for
// strpos() isn't case sensitive
```

```
echo "The String " . strstr($randString, "String") . "</br>";
```

```
echo "</br></br>";
```

```
// strpos() returns the location for the match
```

```
echo "Loc of String " . strpos($randString, "String") . "</br>";
```

```
echo "</br></br>";
```

```
// str_replace() replaces a string with another
```

→ voglio 2 cifre decimali

→ tutto andrà in upper case

→ solo la prima lettera andrà in upper case

→ cosa dividerà la stringa quanto sarà lungo l'array

→ dal carattere & avanti di &

→ questo dà -4

\$randString = "Random String"

→ stampa "7"

```
$newString = str_replace("String", "Stuff", $randString) . "<br>";
```

```
echo "New string " . $newString . "<br>";
```

```
echo "<br><br>";
```

```
// Escaping characters
```

```
$dbString = '"Random quotes"';
```

```
echo addslashes($dbString) . "<br>";
```

```
echo stripslashes($dbString) . "<br>";
```

```
echo "<br><br>";
```

```
// Get the data type for a variable
```

```
echo 'Data Type for $biggestNum is ' . gettype($biggestNum);
```

```
echo "<br><br>";
```

```
/* You can check for other types of data with
    is_array : is_bool : is_double : is_int : is_null :
    is_numeric : is_string
*/
```

```
// empty() returns true or false if a var has a non-zero value
```

```
echo 'Does $biggestNum exist ';
```

```
echo empty($biggestNum) ? 'false' : 'true';
```

```
echo "<br><br>";
```

```
// isset() returns true or false if a variable exists
```

```
echo 'Does $biggestNum exist ';
```

```
echo isset($biggestNum) ? 'true' : 'false';
```

```
echo "<br><br>";
```

```
// You can execute unix commands by surrounding with `
```

```
echo `ls -la`; // Unix or OSX
```

```
// echo `dir /w`; WINDOWS
```

```
echo "<br><br>";
```

```
/*
```

Functions allow you to reuse code

A function must begin with a letter, but can contain numbers and underscores

```
*/
```

```
function addNumbers($num1, $num2){
```

```
    return $num1 + $num2;
```

```
}
```

```
echo "3 + 4 = " . addNumbers(3, 4);
```

```
?>
```

```
</body>
```

```
</html>
```

chiude il PHP

PHP supporta anche

- espressioni regolari
- object oriented programming

↓ sostituire "String",
in "Stuff",
in \$randString