

# Lesson24

## PHP Basics

# More loops

- While loop
- Do ... while { }

# Constants

- The value of constant cannot be modified
- `define(CONSTANT_NAME, "value")`
- `const` keyword
- PHP Magic Constants
- Documentation to read:  
<https://www.php.net/manual/en/language.constants.syntax.php>

# PHP Magic constants

## PHP predefined constants

- `__FILE__`
- `__DIR__`
- `__FUNCTION__`
- `__CLASS__`
- Changeable constants :
- <https://www.php.net/manual/en/language.constants.predefined.php>
- Predefined Constants:
- <https://www.php.net/manual/en/reserved.constants.php>

# Errors

## Type of errors

- The error reporting function is a built-in PHP function that allows developers to control which and how many errors will be shown in the application.
- Error levels: `E_PARSE`, `E_ERROR`, `E_WARNING`, `E_NOTICE`, `E_DEPRECATED`
- Enable output all errors: `error_reporting(E_ALL);`
- Disable output of all errors: `error_reporting(0);`
- <https://www.php.net/manual/en/function.error-reporting.php>

# HTTP headers

- Headers let the client(browser) and the server (web server) pass additional information with HTTP request or response.
- `$_SERVER` (array) - PHP Server and execution environment information
- `header`("Header data") - php function to set http headers
- `$_REQUEST` (array) - has post, get, cookie data
- Redirects with setting header

# Server status codes

- 200 - OK
- 400 - Bad request
- 401 - Unauthorized
- 403 - Forbidden
- 404 - Not found
- 500 - Internal Server Error
- 301 - Redirect / Moved permanently
- 302 - Redirect (Temporary)
- Full spec: <https://www.restapitutorial.com/httpstatuscodes.html>

# Files inclusion

## How to include one php file into another

- The **include** or **require** statement takes all the text/code/markup that exists in the specified file and copies it into the file that uses the include statement.
- The `require()` function is identical to `include()`, except that it handles errors differently.
- `include 'about.php'`
- `require 'about.php'`
- `include_once();`
- `require_once();`



# Language constructions

## Set of useful functions

- `die()` and `exit()` - stop script execution and exit
- `round()` [ `ceil()`, `floor()` ] - Rounds a float
- `rand()` [ `mt_rand()` ] - Generate a random value - may accept \$min, \$max parameters to generate number between
- `trim($value)` - remove blank spaces from start and end of string
- `strtolower($string)` - Make a string lowercase
- `strtoupper($string)` - Make a string uppercase
- `return` keyword - return value from function and stop execution