File Handling Cheat Sheet

Accessing Directory

Read Directory Files into Array

```php
$dir = 'example';
$files = scandir($dir, 'w') or die('Cannot read directory:  '.$dir);
//implicitly creates file
foreach ($files as $file) {
    //do something with $file
}
```

Open and Close Directory

```php
$dir = 'example';

$dh = opendir($dir) or die('Cannot open file:  '.$file);

//access directory

closedir($dh);
```

Read Directory

```php
$dir = 'example';

if ($dh = opendir($dir)) {

    while (($file = readdir($dh)) !== false) {

        if (substr($file, 0, 1) !== '.') {

            //do something with $file

        }

    }

    closedir($dh);

}
```

Accessing Files

Create a File

```php
$file = 'file.txt';
$fh = fopen($file, 'w') or die('Cannot open file:  '.$file);
//implicitly creates file
fclose($fh);
```

Open and Close a File

```php
$file = 'file.txt';
$fh = fopen($file, 'w') or die('Cannot open file:  '.$file);
//open file ('w','r','a')... see mode below
fclose($fh);
```

Read a File

```php
$file = 'file.txt';
$fh = fopen($file, 'r');
$data = fread($fh,filesize($file));
fclose($fh);
```

Write to a File

```php
$file = 'file.txt';
$fh = fopen($file, 'w') or die('Cannot open file:  '.$file);
$data = 'This is the data';
fwrite($fh, $data);
fclose($fh);
```

Append to a File

```php
$file = 'file.txt';
$fh = fopen($file, 'a') or die('Cannot open file:  '.$file);
$data = 'New data line 1';
fwrite($fh, $data);
$new_data = "\n".'New data line 2';
fwrite($fh, $new_data);
fclose($fh);
```

Delete a File

```php
$file = 'file.txt';
unlink($file);
```

File Modes

Modes	Description
r	**Open a file for read only**. File pointer starts at the beginning of the file
w	**Open a file for write only**. Erases the contents of the file or creates a new file if it doesn't exist. File pointer starts at the beginning of the file
a	**Open a file for write only**. The existing data in file is preserved. File pointer starts at the end of the file. Creates a new file if the file doesn't exist
x	**Creates a new file for write only**. Returns FALSE and an error if file already exists
r+	**Open a file for read/write**. File pointer starts at the beginning of the file
w+	**Open a file for read/write**. Erases the contents of the file or creates a new file if it doesn't exist. File pointer starts at the beginning of the file
a+	**Open a file for read/write**. The existing data in file is preserved. File pointer starts at the end of the file. Creates a new file if the file doesn't exist
x+	**Creates a new file for read/write**. Returns FALSE and an error if file already exists