**Namespaces**

**Why we need namespaces:**

To avoid name clashing

To create two classes of same name in a directory

Helps a lot with massive projects

Example:

=====================================================================================

**File1.php:**

<?php  
namespace Foo\Bar\subnamespace;  
  
const FOO = 1;  
function foo() {}  
class foo  
{  
    static function staticmethod() {}  
}  
?>

**File2.php:**

<?php  
namespace Foo\Bar;  
include 'file1.php';  
  
const FOO = 2;  
function foo() {}  
class foo  
{  
    static function staticmethod() {}  
}

foo(); //Call function foo() from file 2

subnamespace\foo(); //call function foo() from file 1

=====================================================================================

We can also use this with classes

**Use:**

The keyword "use" has been recycled for three distinct applications:  
1- to import/alias classes, traits, constants, etc. in namespaces,  
2- to insert traits in classes,  
3- to inherit variables in closures.

**Example:**

==========================================================================

<?php  
use My\Full\Classname as Another, My\Full\NSname;  
  
$obj = new Another; // instantiates object of class My\Full\Classname  
$a = 'Another';  
$obj = new $a;      // instantiates object of class Another  
?>

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Links:

<https://www.php.net/manual/en/language.namespaces.rationale.php>

<https://www.php.net/manual/en/language.namespaces.definition.php>

<https://www.php.net/manual/en/language.namespaces.nested.php>

<https://www.php.net/manual/en/language.namespaces.importing.php>