PHP 7.3 New Features

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More Flexible Heredoc and Nowdoc Syntax
Heredoc:

```php
// Valid from PHP 7.3
echo <<<EOT
    SELECT * FROM `contacts`
        WHERE `telephone` IS NOT NULL;
    EOT;
// Output:-
// SELECT * FROM `contacts`
//     WHERE `telephone` IS NOT NULL;
```

```php
// Valid as of PHP 7.3
$strings = [
    'Looney Toons', <<<EOT
    Steven Spielberg Presents Tiny Toon Adventures
    EOT, 'Animaniacs',
];
```

```php
// This is invalid code
echo <<<EOT
SELECT * FROM `contacts`
        WHERE `telephone` IS NOT NULL;
    EOT;
```

More Flexible Heredoc and Nowdoc Syntax
Nowdoc:

```php
<?php
$x = <<<'MY_IDENTIFIER'
Hello World<br>
'Text is inside the single quotes'<br>
"Text is inside the double quotes"<br>
<strong>Bold Text</strong>
MY_IDENTIFIER;

echo $x;
?>
```

Array Destructuring supports Reference Assignments

[&$a, [$b, &$c]] = $d

Instanceof Operator accepts Literals

```
$ClassA instanceof ExampleClass; // True
$ClassB instanceof 'ExampleClass'; // False
```

ParseError extends CompileError as of PHP 7.3.0. Formerly, it extended Error.

```php
try{

    eval("echo 'toto' echo 'tata'");

}catch(ParseError $p){

    echo $p->getMessage();
}
```

```
syntax error, unexpected 'echo' (T_ECHO), expecting '.' or ';'
```

Trailing Commas are allowed in Calls
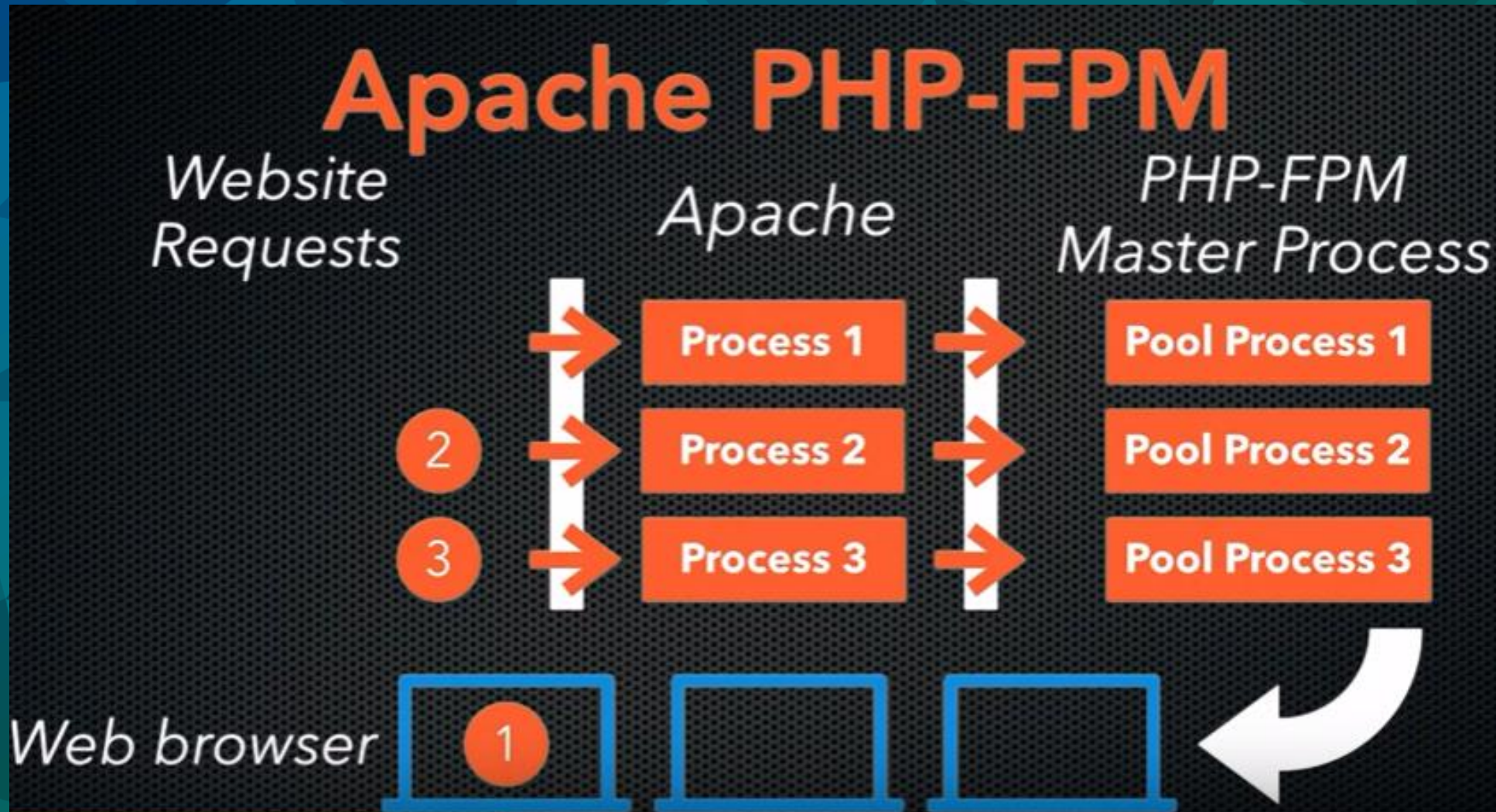
```php
//
unset(
    $one,
    $two,
    $three,
);


return view('posts.show', compact(
    'post',
    'author',
    'comments',
));
```

FastCGI Process Manager
With FPM

FastCGI Process Manager Enable

```
a2enconf php7.2-fpm
```

Enable and start the PHP-FPM daemon:

```
systemctl enable php7.2-fpm
systemctl start php7.2-fpm
```

Reload the Apache configuration:

```
systemctl reload apache2
```

FastCGI Process Manager
New options:

```
log_limit:integer
log_buffering:boolean
catch_workers_output:boolean
```

BC Math Functions

- bcadd — Add two arbitrary precision numbers
- bccomp — Compare two arbitrary precision numbers
- bcdiv — Divide two arbitrary precision numbers
- bcmod — Get modulus of an arbitrary precision number
- bcmul — Multiply two arbitrary precision numbers
- bcpow — Raise an arbitrary precision number to another
- bcpowmod — Raise an arbitrary precision number to another, reduced by a specified modulus
- bcscale — Set or get default scale parameter for all bc math functions
- bcsqrt — Get the square root of an arbitrary precision number
- bcsub — Subtract one arbitrary precision number from another

BC Math Functions
bcscale():int

```php
bcscale(4);
echo bcdiv('2','3');
//0.6666
//make sure to install bc math before using the functions "apt-get install php5-bcmath"
```

Multibyte String Functions

Multibyte String Functions

Full Case-Mapping and Case-Folding Support

```php
<?php

mb_strtoupper("Straße");
// Produces STRAßE on PHP 7.2
// Produces STRASSE on PHP 7.3

?>
```

Multibyte String Functions

Case-Insensitive String Operations use Case-Folding

```php
$text = "aaa Bbb";
$letter = mb_stripos($text,"b");
var_dump($letter); // int(4)
```

Multibyte String Functions

MB_CASE_TITLE performs Title-Case Conversion

```php
<?php
echo mb_convert_case('това ни е заглавието', MB_CASE_TITLE, 'UTF-8'); // Това Ни Е Заглавието
```

Multibyte String Functions

Unicode 11 Support

Multibyte String Functions

Long String Support

Multibyte String Functions

Named Captures Support

```php
$string = "това това ни е заглавието";
mb_ereg('(?<word>\w+)', 'това', $matches);
print_r($matches);
//Array ( [0] => това [1] => това [word] => това )
```

Thank You