



PHP

week1_2022/02/22





About me

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- 資管111
- 管院鑰匙借用系統
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 - <https://ocdweb.cm.nsysu.edu.tw/>



在這堂課之前你需要具備的基本能力

- HTML
- 一點點JS、一點點CSS
- 資料庫基本的語法 (insert、update、delete)



這堂課會用到的工具

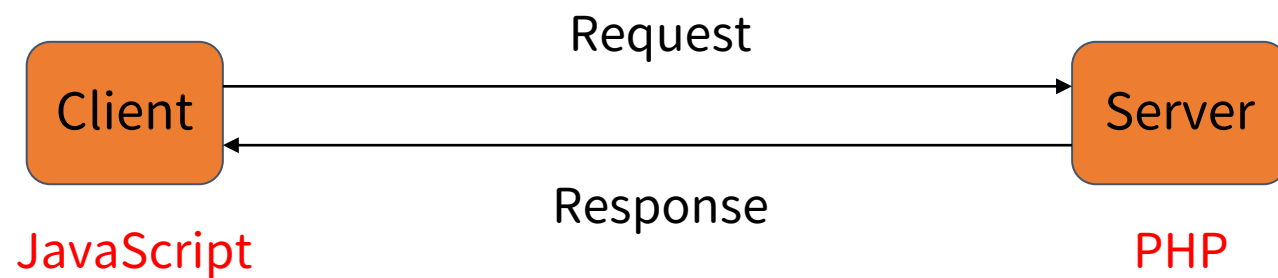
- 程式碼編譯器
 - eg. vscode, sublime, notepad++
- 套件包：xampp



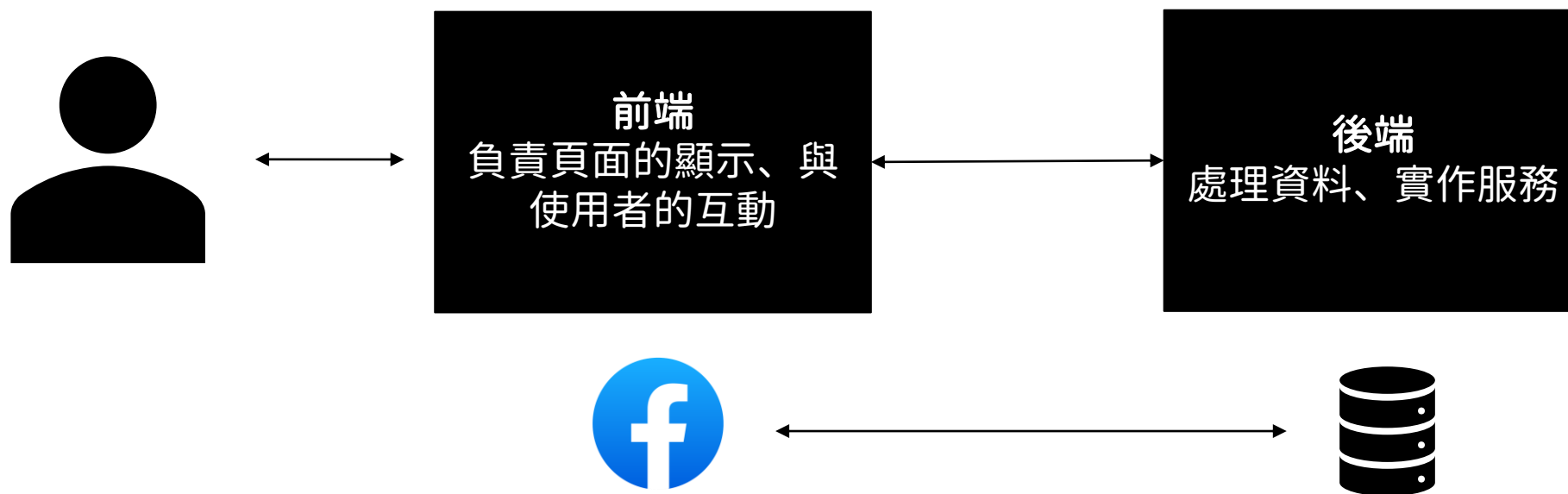
今日課程大綱

- 網站運作過程
- 架設網站需要？
- 安裝XAMPP
- Hello World
- Comment
- Variable
- 單雙引號
- Array

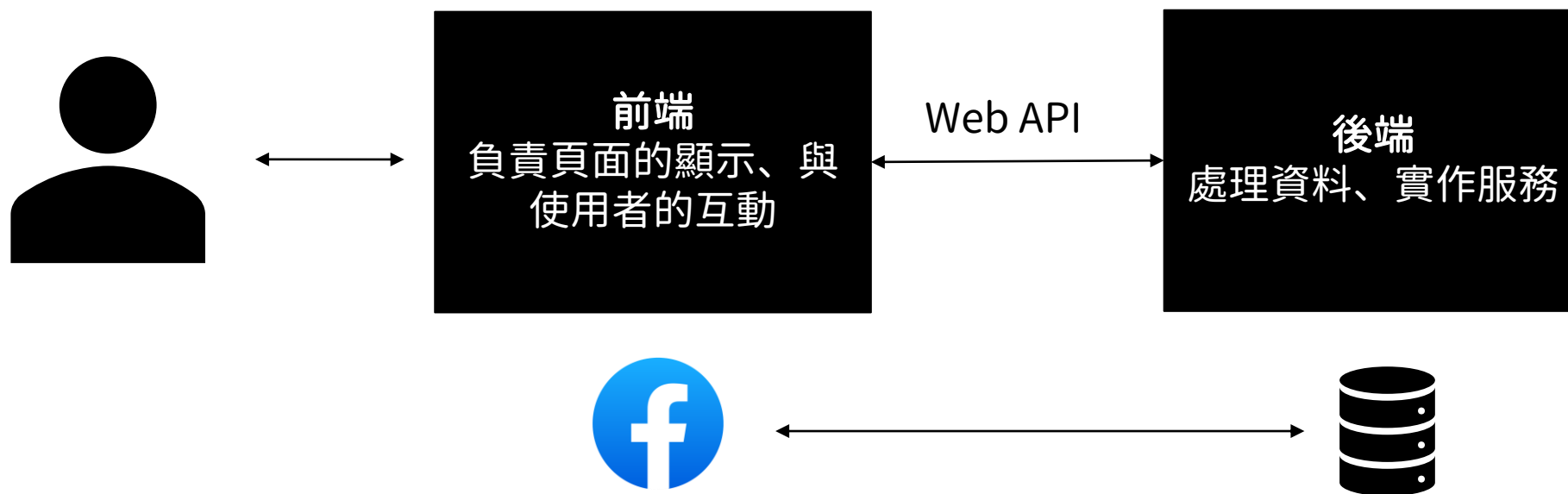
網站是如何運作？



前端 vs 後端



前後端分離





如果你今天要架設一個基礎的網站
需要有的環境？

LAMP

- Linux
- Apache
- Maria DB or MySQL
- PHP





Linux

- 作業系統
- 可以換成Windows、MacOS
- <https://linux.vbird.org/>



Apache

- 網頁伺服器
- 可以跨平台
- PHP 可以在 Apache 上執行



MySQL

- DBMS, Database Management System
- 免費
- Oracle、SQLite、MariaDB



PHP

<https://www.php.net/docs.php>

- 腳本語言
- 可以在HTML中使用
- 可以負責與資料庫進行聯繫
- Python、C



MAMP

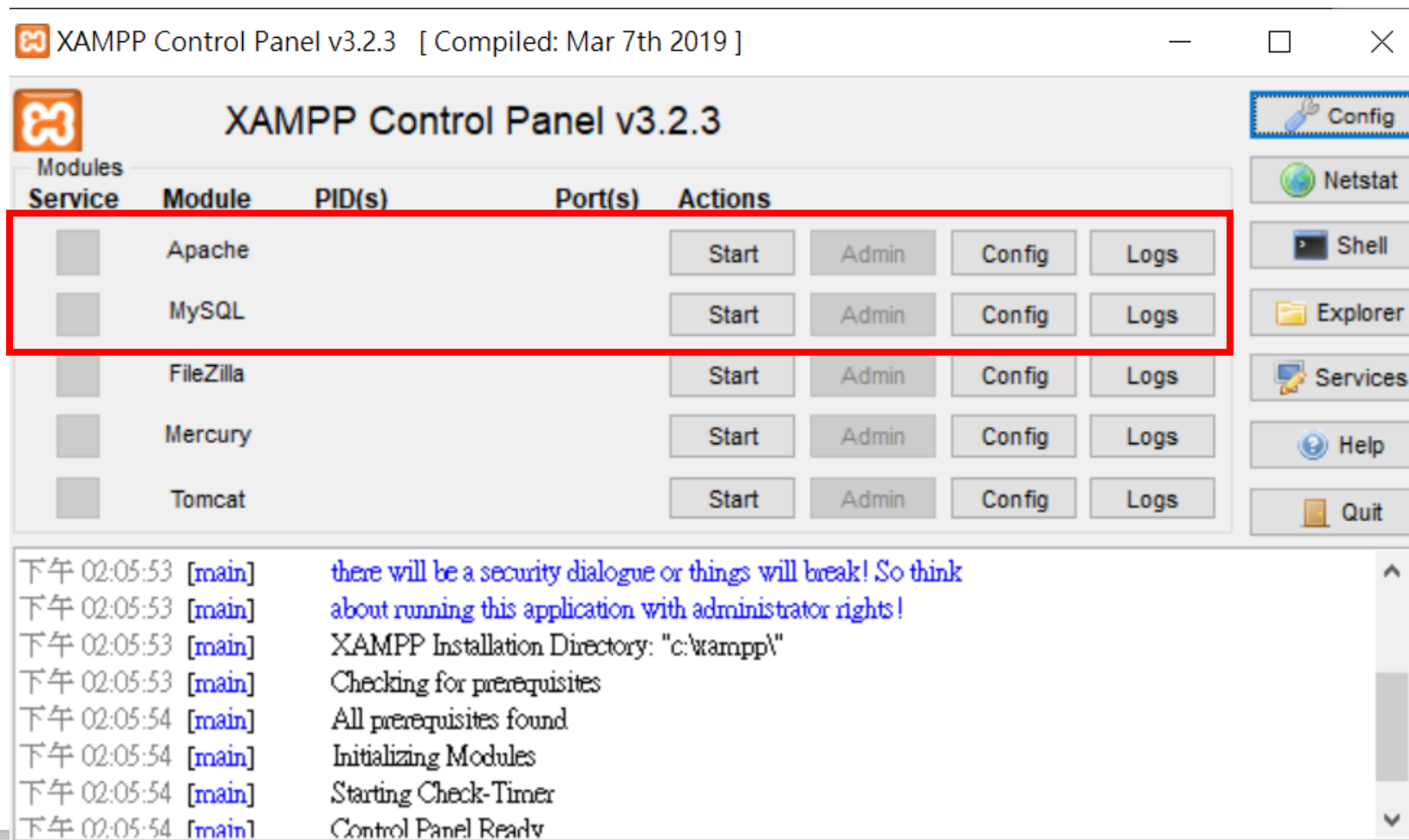
- Mac
- Apache
- Maria DB or MySQL
- PHP



WAMP

- Windows
- Apache
- Maria DB or MySQL
- PHP

- 是一個將MySQL、Apache、PHP整合在一起的資源包





`http://127.0.0.1/` or `http://localhost/`

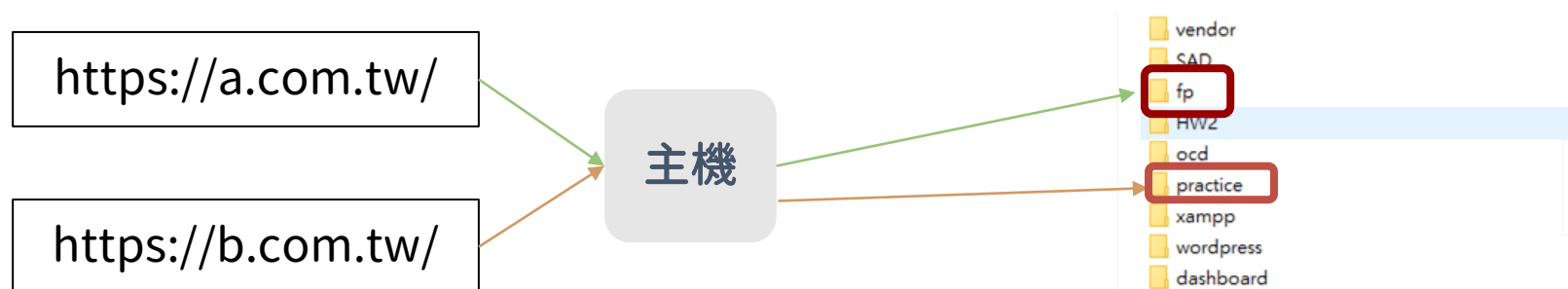


C:\xampp\htdocs

vhost

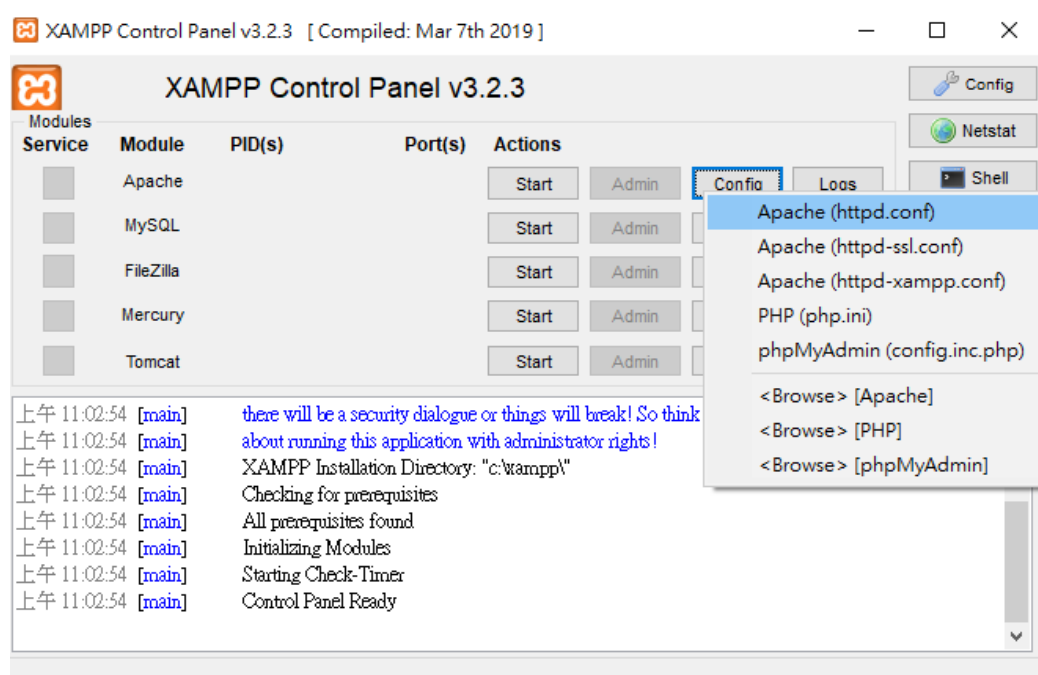
小小小補充

- 多個網域可以架設在一個主機上



vhost

小小小補充



1. 搜尋documentroot
2. 將下面的檔案路徑改成你要設定的位址

DocumentRoot "C:/xampp/htdocs"

<Directory "C:/xampp/htdocs">



新增新的vhost在你的主機

小小小補充

```
<VirtualHost *:80>  
    ServerAdmin php-test.com  
    DocumentRoot C:/xampp/htdocs/php_網研  
    ServerName php-test.com  
</VirtualHost>
```



vhost

小小小補充

- C:\Windows\System32\drivers\etc\hosts
- 以**管理員權限**開啟記事本
- 開啟舊檔，複製貼上你的檔案位置
- 在最後一行新增你的**ip address** 和 **網域名稱**
- 在瀏覽器上輸入你的網域名稱！



開始吧！



```
<?php  
    echo 'Hello World';  
?>
```



可以加在文本中的任一地方(week1_demo.php)

php開始與結束

```
<?php
```

```
    echo 'Hello World';
```

```
?>
```



```
<?php  
    echo 'Hello World';  
?>
```

每一行要用分號作為結尾



For, While, if...else if...else

<https://docs.google.com/presentation/d/1GTRVfnQw5ZLKV1bIleKITC-0DA4cl55k/edit?usp=sharing&ouid=109399431531639036886&rtpof=true&sd=true>
(p14-p23)

Comment

```
<?php
    // 這是註解
    # 這也是註解
    /*
        這是多行註解
    */
?>
```

Variable

```
<?php
    $a = 123;
    $b = "this is string";
    $c = 20.1;
    $d = '';
    $e = array();
?>
```



單雙引號

- 單引號：將裡面的元素當作字串來看
- 雙引號：會辨認裡面的元素為單純的字串或是變數

猜猜看ㄏ！

```
$var1 = '123';
```

```
$var2 = "456";
```

```
echo "$var1$var2";
```

```
echo '$var1'."$var2";
```

```
echo "'$var1$var2'";
```

```
echo '"$var1$var2"';
```


字符串相接

```
<?php
    $a = 123;
    $b = "this is string";
    $c = 20.1;
    $d = "";
    $e = array();
?>
```

```
echo $a.$b.$c;
```

Array

```
$arr1 = ["pig", "dog", "cat"];  
  
$arr1 = array("pig", "dog", "cat");  
  
$arr1[2] = "pig";  
$arr1[0] = "dog";
```

[0]	pig
[1]	dog
[2]	cat

Array

```
print_r($arr1);  
  
for($i = 0; $i < count($arr1) ; $i++){  
    echo $arr1[$i]."<br>"; //印出value  
}
```

[0]	dog
[1]	dog
[2]	pig

Array

```
$arr2 = array("pig"=>"apple", "dog"=>"orange");  
$arr2["cat"] = "banana";  
print_r($arr2);
```

key

value

[pig]

apple

[dog]

orange

[cat]

banana

Array

```
foreach($arr2 as $key=>$val) {  
    echo "key:". $key;  
    echo "val:". $val;  
}
```

key	value
[pig]	apple
[dog]	orange
[cat]	banana

練習時間！

- 將下列表格呈現在網頁上

key	value
apple	red
banana	yellow
guava	green

Array – Multi-array

```
$arr[0][0] = "A";  
$arr[0][1] = "D";  
$arr[1][0] = "B";
```

```
$arr[0] = array("A", "D", "G");  
$arr[1] = array("B", "E", "H");  
$arr[2] = array("C", "F", "I");
```

```
$arr = array(  
    array("A", "D", "G"),  
    array("B", "E", "H"),  
    array("C", "F", "I"),  
);
```

	0	1	2
0	A	D	G
1	B	E	H
2	C	F	I

Array – Multi-array

	Tom	Amy	Anna
Height	188	158	165
Weight	68	45	48

拆解

	val	val	val
key	Tom	Amy	Anna
key	Height	188	158
	Weight	68	45
		48	



	val	val	val
key	Tom	Amy	Anna
	Height	188	158
		165	



	key	key	key
value	Tom	Amy	Anna
	188	158	165

Array – Multi-array

```
$student_info = array(  
    "Height" => array("Tom"=>"188", "Amy"=>"158", "Anna"=>"165"),  
    "Weight" => array("Tom"=>"68", "Amy"=>"45", "Anna"=>"48"),  
);  
  
$student_info["Height"] = array("Tom"=>"188", "Amy"=>"158", "Anna"=>"165");  
$student_info["Weight"] = array("Tom"=>"68", "Amy"=>"45", "Anna"=>"48");
```

	Tom	Amy	Anna
Height	188	158	165
Weight	68	45	48

拆解

	key		key	key
	Tom	Amy	Anna	
val	Height	158	165	
val	Weight	45	48	



	key
	Tom
val	Height
val	Weight



key	value
Height	188
Weight	68

Array – Multi-array

```
$student_info["Tom"] = array("Height"=>"188", "Weight"=>"68");  
$student_info["Amy"] = array("Height"=>"158", "Weight"=>"45");  
$student_info["Anna"] = array("Height"=>"165", "Weight"=>"48");  
print_r($student_info);
```

	Tom	Amy	Anna
Height	188	158	165
Weight	68	45	48

Array – array_push()

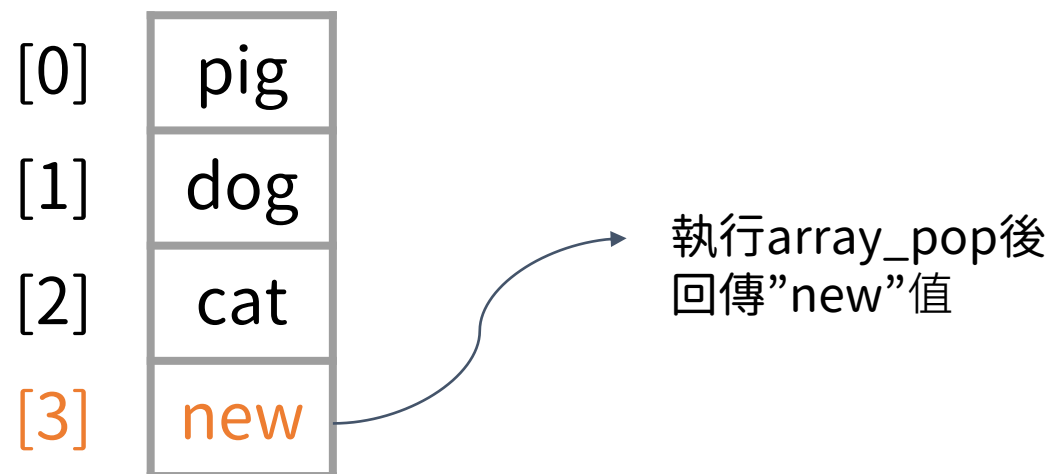
- 新增元素至array
- 只適合用在不知道key值的陣列當中
- array_push(array,value1,value2...)

[0]	pig
[1]	dog
[2]	cat
[3]	new

	0	1	2
0	A	D	G
1	B	E	H
2	C	F	I
3	N	E	W

Array – array_pop()

- 刪除array中最末端的值
- array_pop(array)
- 返回刪除成功的元素



HW

- 計算出BMI值後新增至下一行
- $BMI = \text{體重(公斤)} / \text{身高}^2(\text{公尺} * \text{公尺})$

	Tom	Amy	Anna
Height	188	158	165
Weight	68	45	48
BMI			

The Google logo is centered in the upper half of the image. It consists of the word "Google" in its signature multi-colored font: blue for 'G', red for the first 'o', yellow for the second 'o', blue for 'g', green for 'l', and red for 'e'.

IS ALL YOU NEED