



網際網路

呼叫Web API - GET

```
<?php
$url = "https://url.com";
$html = file_get_contents($url);

echo $html;
?>
```

顯示圖片

```
<?php
$url = "https://hostname/image.jpg";
$data = file_get_contents($url);
header('content-type: image/jpeg');
echo $data;
?>
```

以 img 標籤顯示圖片

```
<?php
$url = "https://hostname/image.jpg";

$data = file_get_contents($url);
$mime_type = (new finfo(FILEINFO_MIME_TYPE))->buffer($data);
$imageData = base64_encode($data);
$src = "data: $mime_type;base64,$imageData";
?>

<html>
<body>

</body>
</html>
```

得到 image/jpeg

JSON 解析

```
<?php
$str = '{"name": "David", "age": 30}';

$jsonObj = json_decode($str, true);
print_r($jsonObj);
?>
```



```
Array
(
    [name] => David
    [age] => 30
)
```

POST

```
<?php
$api_key = getenv("OPENAI_API_KEY");

$data = '{
    "model": "gpt-3.5-turbo",
    "messages": [
        {"role": "user", "content": "為什麼會有地震？"}
    ]
}';

$options = array('http' =>
    array(
        'method' => 'POST',
        'header' => "Content-Type:application/json\r\nAuthorization:Bearer {$api_key}\r\n",
        'content' => $data
    )
);

$context = stream_context_create($options);

$result = file_get_contents('https://api.openai.com/v1/chat/completions', false, $context);
echo json_decode($result, true)['choices'][0]['message']['content'] . "\n";
```

POST 的資料為 key-value 格式

- 若傳送的資料為 x=10&y=20 這樣的格式，有兩種寫法
- 寫法一

```
$data = http_build_query(  
    array(  
        'x' => '10',  
        'y' => '20'  
    )  
);
```

- 寫法二

```
$data = "x=10&y=20"
```

Web API 設計

- 取得 http request 的呼叫方式，例如 get 或 post
- 建議安裝 postman 軟體 <https://www.postman.com>

```
<?php  
$method = $_SERVER['REQUEST_METHOD'];  
echo $method;  
?>
```


RESTful API

```
<?php
$method = $_SERVER['REQUEST_METHOD'];
switch ($method) {
case 'GET':
    $sql = 'select';
    break;
case 'POST':
    $sql = 'insert into';
    break;
case 'PUT':
    $sql = 'update';
    break;
case 'DELETE':
    $sql = 'delete';
    break;
default:
    $sql = 'unknown';
}
?>
```

.htaccess

```
<IfModule mod_rewrite.c>  
    RewriteEngine On  
    RewriteCond %{REQUEST_FILENAME} !-f  
    RewriteCond %{REQUEST_FILENAME} !-d  
    RewriteRule ^(.*)$ index.php [L]  
</IfModule>
```

index.php

```
<?php
$uri = $_SERVER["REQUEST_URI"];
var_dump($uri);
echo "<hr>";

$str = match($uri) {
    "/proj/a" => "AAA",
    "/proj/b" => "BBB",
    default => "default"
};

echo $str;
?>
```