

JAVASCRIPT AND PHP

AJAX, JSON & OBJECTS

Sending JSON between
JavaScript and PHP via AJAX

CSCI221

GET

JAVASCRIPT: `JSON.parse()`
PHP: `json_encode()`

HTML - e11.1-ajax-simple-object.html

1

Request Sent: GET request to PHP page for information. The GET request may also contain parameters (name/value pair).

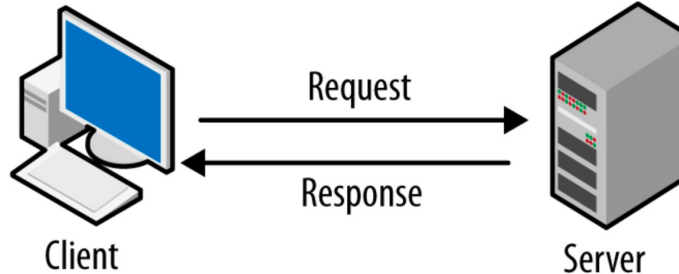
4

Response Received: Convert responseText (JSON) to JavaScript object:

```
const person = JSON.parse(this.responseText);
```

Update DOM to display information in JavaScript person Object:

```
<div id="personName"></div>
<div id="personOccupation"></div>
...
```



**Information
sent
between
systems is
plain text.**

PHP - e11.1-simple-object.php

2

Request Received: `$_GET` retrieves any name / value parameters and stores them in variables.

3

Response Sent: \$person object converted to JSON and response sent via echo.

```
echo json_encode($person);
```



POST

JAVASCRIPT: `JSON.stringify()`, `JSON.parse()`
PHP: `json_decode`, `json_encode()`

HTML - e12.1-ajax-simple-post-json.html

1

Request Sent: Use `JSON.stringify()` to convert JavaScript object to a JSON formatted string.

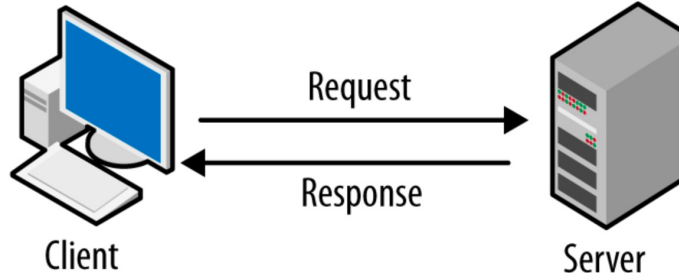
```
const paintInfo = {};  
...  
JSON.stringify(paintInfo);
```

4

Response Received: Convert `responseText` (JSON) to JavaScript object:

```
const response = JSON.parse(this.responseText);
```

Update DOM to display information in JavaScript response Object.



**Information
sent
between
systems is
JSON
formatted
plain text.**

PHP - e12.1-ajax-simple-post-json.php

2

Request Received: `json_decode()` converts to PHP object.

```
$paintInfo = json_decode($content, true);
```

3

Response Sent: `$formInfo` object converted to JSON via `json_encode()` and response sent via `echo`.

```
echo json_encode($formInfo);
```

