

JSON PHP

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A common use of JSON is to read data from a web server, and display the data in a web page.

This chapter will teach you how to exchange JSON data between the client and a PHP server.

The PHP File

PHP has some built-in functions to handle JSON.

Objects in PHP can be converted into JSON by using the PHP function json_encode():

PHP file

```
<?php
$myObj->name = "John";
$myObj->age = 30;
$myObj->city = "New York";

$myJSON = json_encode($myObj);
echo $myJSON;
?>
```

Show PHP file »



Example

Use JSON.parse() to convert the result into a JavaScript object:

```
const xmlhttp = new XMLHttpRequest();
xmlhttp.onload = function() {
  const myObj = JSON.parse(this.responseText);
  document.getElementById("demo").innerHTML = myObj.name;
}
xmlhttp.open("GET", "demo_file.php");
xmlhttp.send();
```

Try it Yourself »

PHP Array

Arrays in PHP will also be converted into JSON when using the PHP function json_encode():

The Client JavaScript

Here is a JavaScript on the client, using an AJAX call to request the PHP file from the array example above:

Example

Use JSON.parse() to convert the result into a JavaScript array:

```
var xmlhttp = new XMLHttpRequest();
xmlhttp.onload = function() {
   const myObj = JSON.parse(this.responseText);
   document.getElementById("demo").innerHTML = myObj[2];
}
xmlhttp.open("GET", "demo_file_array.php", true);
xmlhttp.send();
```

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PHP Database

PHP is a server side programming language, and can be used to access a database.

Imagine you have a database on your server, and you want to send a request to it from the client where you ask for the 10 first rows in a table called "customers".

On the client, make a JSON object that describes the numbers of rows you want to return.

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Example

Use JSON.stringify() to convert the JavaScript object into JSON:

```
const limit = {"limit":10};
const dbParam = JSON.stringify(limit);
xmlhttp = new XMLHttpRequest();
xmlhttp.onload = function() {
   document.getElementById("demo").innerHTML = this.responseText;
}
xmlhttp.open("GET","json_demo_db.php?x=" + dbParam);
xmlhttp.send();
```

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Example explained:

- Define an object containing a "limit" property and value.
- Convert the object into a JSON string.
- Send a request to the PHP file, with the JSON string as a parameter.
- Wait until the request returns with the result (as JSON)
- Display the result received from the PHP file.

Take a look at the PHP file:

PHP file

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PHP File explained:

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- Convert the request into an object, using the PHP function json_decode().
- Access the database, and fill an array with the requested data.

SQL

• Add the array to an object, and return the object as JSON using the json_encode() function.

Use the Data

Example

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```
xmlhttp.onload = function() {
  const myObj = JSON.parse(this.responseText);
  let text = "";
  for (let x in myObj) {
    text += myObj[x].name + "<br>};
  }
  document.getElementById("demo").innerHTML = text;
}
```

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PHP Method = POST

When sending data to the server, it is often best to use the HTTP POST method.

To send AJAX requests using the POST method, specify the method, and the correct header.

The data sent to the server must now be an argument to the send() method:

Example

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```
const myody = soon.purse(this:responserext),
let text ="";
for (let x in myObj) {
   text += myObj[x].name + "<br>   }
   document.getElementById("demo").innerHTML = text;
}
xmlhttp.open("POST", "json_demo_db_post.php");
xmlhttp.setRequestHeader("Content-type", "application/x-www-form-urlencoded");
xmlhttp.send("x=" + dbParam);
```

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The only difference in the PHP file is the method for getting the transferred data.

PHP file

Use \$_POST instead of \$_GET:

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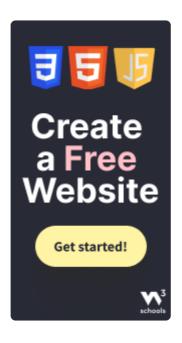
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