

PHP functions

JSON - format for representing data.

`file_get_contents(url)` -> function that fetches the content from the url passed as 1st argument. Often used to query API endpoints and return data in JSON format.

`json_decode($json, true)` -> function that accepts data in JSON format and transforms it to an associative array.

For this session, you will need to use the JSONPlaceholder API, available here:

<https://jsonplaceholder.typicode.com/>

The 3 endpoints that you will need are:

<https://jsonplaceholder.typicode.com/users>

<https://jsonplaceholder.typicode.com/posts>

<https://jsonplaceholder.typicode.com/todos>

You can open them up in the browser and inspect the data that they provide.

You will need to fetch all the users from their API, then fetch all the posts and all the todos from the appropriate API endpoints given above.

The code for that is given here:

```
$users = file_get_contents("https://jsonplaceholder.typicode.com/users");  
$posts = file_get_contents("https://jsonplaceholder.typicode.com/posts");  
$todos = file_get_contents("https://jsonplaceholder.typicode.com/todos");
```

At this moment in the `$users`, `$posts` and `$todos` variables you have data in JSON format. You can print it out with `echo` to check the content of each variable. In order to do something with this data in php we need to turn this into array format. We will do this using the `json_decode` function. The code for this operation is given here:

```
$users = json_decode($users, true);  
$posts = json_decode($posts, true);  
$todos = json_decode($todos, true);
```

At this moment, in the `$users`, `$posts` and `$todos` variables you have PHP arrays. You can print out the arrays using the `print_r()` function in order to examine their contents.

Your job is to combine these 3 arrays into one array with the following format:

```
[
  [
    'info' => [
      'name' => '',
      'surname' => '',
      'email' => '',
      'company' => ''
    ],
    'posts' => [
      [
        'title' => '',
        'body' => ''
      ],
      [
        'title' => '',
        'body' => ''
      ],
      ... (more posts)
    ],
    'todos' => [
      [
        'title' => '',
        'completed' => ''
      ],
      [
        'title' => '',
        'completed' => ''
      ],
      ... (more todos)
    ]
  ],
  ... (more users)
]
```

After having the combined array, iterate it and print each user with all his data. For example, one format in which you can print is given here (attached separately with this mentorship exercise).

<div><div>Leanne Graham</div><div>@Bret</div><div><div>Email:</div><div>Sincere@april.biz</div></div><div><div>City:</div><div>GweloKorogoh</div></div><div><div>Company:</div><div>Romaguera-Crona</div></div></div>	<div>Posts</div> <div><div>Title:</div><div>sunt aut facere repellat provident occaecati excepturi optio reprehenderit</div></div> <div><div>Body:</div><div>quia et suscipit suscipit recusandae consequuntur expedita et cum reprehenderit molestiae ut ut quas totam nostrum rerum est autem sunt rem eveniet architecto</div></div> <div><div>Title:</div><div>qui est esse</div></div> <div><div>Body:</div><div>est rerum tempore vitae sequi sint nihil reprehenderit dolor beatae ea dolores neque fugiat blanditis voluptate porro vel nihil molestiae ut reiciendis qui aperiam non debitis possimus qui neque risi nulla</div></div> <div><div>Title:</div><div>ea molestias quasi exercitationem repellat qui ipsa sit aut</div></div> <div><div>Body:</div><div>et justo sed quo iure voluptatem occaecati omnis eligendi aut ad voluptatem doloribus vel accusantium quis pariatur molestiae porro eius odio et labore et velit aut</div></div> <div><div>Title:</div><div>eum et est occaecati</div></div> <div><div>Body:</div><div>ullam et saepe reiciendis voluptatem adipisci sit amet autem assumenda provident rerum culpa quis hic commodi nesciunt rem tenetur doloremque ipsam iure quis sunt voluptatem rerum illo velit</div></div> <div><div>Title:</div><div>nesciunt quas odio</div></div> <div><div>Body:</div><div>repudiandae veniam quaerat sunt sed alias aut fugiat sit autem sed est voluptatem omnis possimus esse voluptatibus quis est aut tenetur dolor neque</div></div> <div><div>Title:</div><div>dolorem eum magni eos aperiam quia</div></div> <div><div>Body:</div><div>ut aspernatur corporis harum nihil quis provident sequi mollitia nobis aliquid molestiae perspiciatis et ea nemo ab reprehenderit accusantium quas voluptate dolores velit et doloremque molestiae</div></div> <div><div>Title:</div><div>magnam facilis autem</div></div> <div><div>Body:</div><div>dolore placeat quibusdam ea quo vitae magni quis enim qui quis quo nemo aut saepe quidem repellat excepturi ut quia sunt ut sequi eos ea sed quas</div></div> <div><div>Title:</div><div>dolorem dolore est ipsam</div></div> <div><div>Body:</div><div>digressimos aperiam dolorem qui eum facilis quibusdam animi sint suscipit qui sint possimus cum quaerat magni maiores excepturi ipsam ut commodi dolor voluptatum modi aut vitae</div></div> <div><div>Title:</div><div>nesciunt iure omnis dolorem tempora et accusantium</div></div> <div><div>Body:</div><div>consectetur animi nesciunt iure dolore enim quia ad veniam autem ut quam aut nobis et est aut quod aut provident voluptas autem voluptas</div></div> <div><div>Title:</div><div>optio molestias id quia eum</div></div> <div><div>Body:</div><div>quo et expedita modi cum officia vel magni doloribus qui repudiandae vero nisi sit quas veniam quod sed accusamus veritatis error</div></div>
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