Netlify Serverless Functions Cheat Sheet

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Create Your First Serverless Function

Create a JavaScript file inside of a *functions* directory that exports a handler function.



The name of your Serverless Function file will be the name of the serverless function itself.

Serverless Functions take 3 parameters

Event	Context	Callback
request information	information about	function to call in non-
(body, httpMethod, etc.)	invocation, function,	async handlers to send
	and environment	a response

Handlers can be either **synchronous** or **asynchronous**...

Synchronous handlers must call the callback function with an error as the first parameter (if applicable), and the second an object that includes HTTP statusCode and body.

Asynchronous handlers must be tagged as async and **do not need** to call the callback function. It's fine to remove the callback parameter if you aren't using it.



You'll most likely run asynchronous JavaScript, so I always use **Asynchronous Handlers.**

```
exports.handler = async(event, context) => {
  return {
    statusCode: 200,
    body: JSON.stringify({msg: '-}'})
}
```

If you need to access the request JSON body, you have to parse it with <code>JSON.parse()</code>.

```
const body = JSON.parse(event.body)
```

Running Functions Locally

Install the Netlify CLI...

```
npm install -g netlify-cli
```

and create a Netlify.toml configuration file to specify where directory your serverless functions are in.

```
[build]
  functions = "functions"
```

Run netlify dev and your functions will be available at localhost:8888/.netlify/functions/<function_name>.

Simplify this path by adding a redirects configuration in your Netlify.tom file.

```
[[redirects]]
  from = "api/*"
  to= ".netlify/functions/:splat"
  status = 200
```

Extra Tips



Often times, you'll have secret credentials (API keys, API secrets, etc.) that **you don't want to check into your source code**. For these private credentials, use **environment variables**. When running locally, install the **dotenv** package with **npm install dotenv**.

Create a ... in your repo with your credentials.

```
SECRET_KEY=<Some secret key>
```

but make sure you ignore this file in your <a>.gitignore file

```
. env
```

Lastly, require the dotenv packages and grab the variables you need.

```
require('dotenv').config()
const secretKey = process.env.SECRET_KEY
```

b Link Your Local Site to Netlify

After you've created your site in Netlify, you can link the local repository to it from the command line with netlify link. Netlify will then inject the environment variables from the dashboard directly into your locally running functions. This way you don't need to manage environment variables locally.

Hocus on Code Reusability

You will quickly find yourself repeating code through different Serverless Functions. Create a utils directory and include any code that might be useful to share.

Simplify Return Data

When returning body data, I hate having to type <code>JSON.stringify()</code> each time. Use this helper function instead.

```
const formattedReturn = (statusCode, body) => {
 return {
   statusCode,
   body: JSON.stringify(body);
}
```

Then use it in your function.

```
exports.handler = async(event, context) => {
  return formattedReturn(200, {msg: '\u00e51'});
}
```