**How to Run Multiple Processes Simultaneously.**

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As a Django developer, I have to run multiple processes while developing, such as the Django server, a JavaScript compiler, and Celery. Launching these processes separately can be time-consuming and tedious. Just try opening three terminal windows, and you’ll understand what I mean.

Finally, I found a solution in the Rails community. In Rails, when they do development, they launch a single bin/dev bash file, which takes care of the rest: it launches the dev server, the asset pipeline, and so on. And eureka, we can do the same in Django! So, I adopted their approach for Django and want to share it with you.

**Step 1 — Create a bin/dev file**

To get started, create a bin/dev bash file in your project’s root directory. In this file, we use a bash script to run multiple processes at once.

#!/usr/bin/env bash

if ! command -v honcho &> /dev/null  
then  
 echo "Installing honcho…"  
 pip install honcho  
fi  
honcho start -f Procfile.dev

In this file, we install and run a Python package called [Hocho](https://draft.blogger.com/blog/post/edit/3042743463386461696/8183746695001046110" \t "_blank), a tool for managing Procfile-based applications.

Once you have created the bin/dev file, set its permissions by running:

chmod +x ./bin/dev

**Step 2 — Create a Procfile**

For Honcho, we need a Procfile, a file in which you can declare multiple processes, or terminal commands, to launch at the same time and run simultaneously. This is exactly what we need: to run the server, Webpack, Celery, all at once.

Let\’s create a Procfile.dev file in the root directory of your project. In this file, specify the commands for each process that you want to run:

django: python manage.py runserver  
js: webpack -w  
css: python manage.py tailwind start  
celery: celery

In this example, the Procfile.dev launches the Django dev server, Webpack, Tailwind CSS compiler, and Celery worker all at once.

**Step 3 — Ready? Launch!**

To launch all the processes, run the following command in your terminal:

./bin/dev

And that’s it! Watch the screen and enjoy the flow of command logs. You’re Thomas Anderson!

Give it a try and see how it can improve your workflow.

Hey, if you’ve found this useful, please share the post to help other folks find it: