

Gulp

Automate and enhance your workflow

What is task runner?

Collection of tasks that automate repetitive and boring work.



What can I do with that?

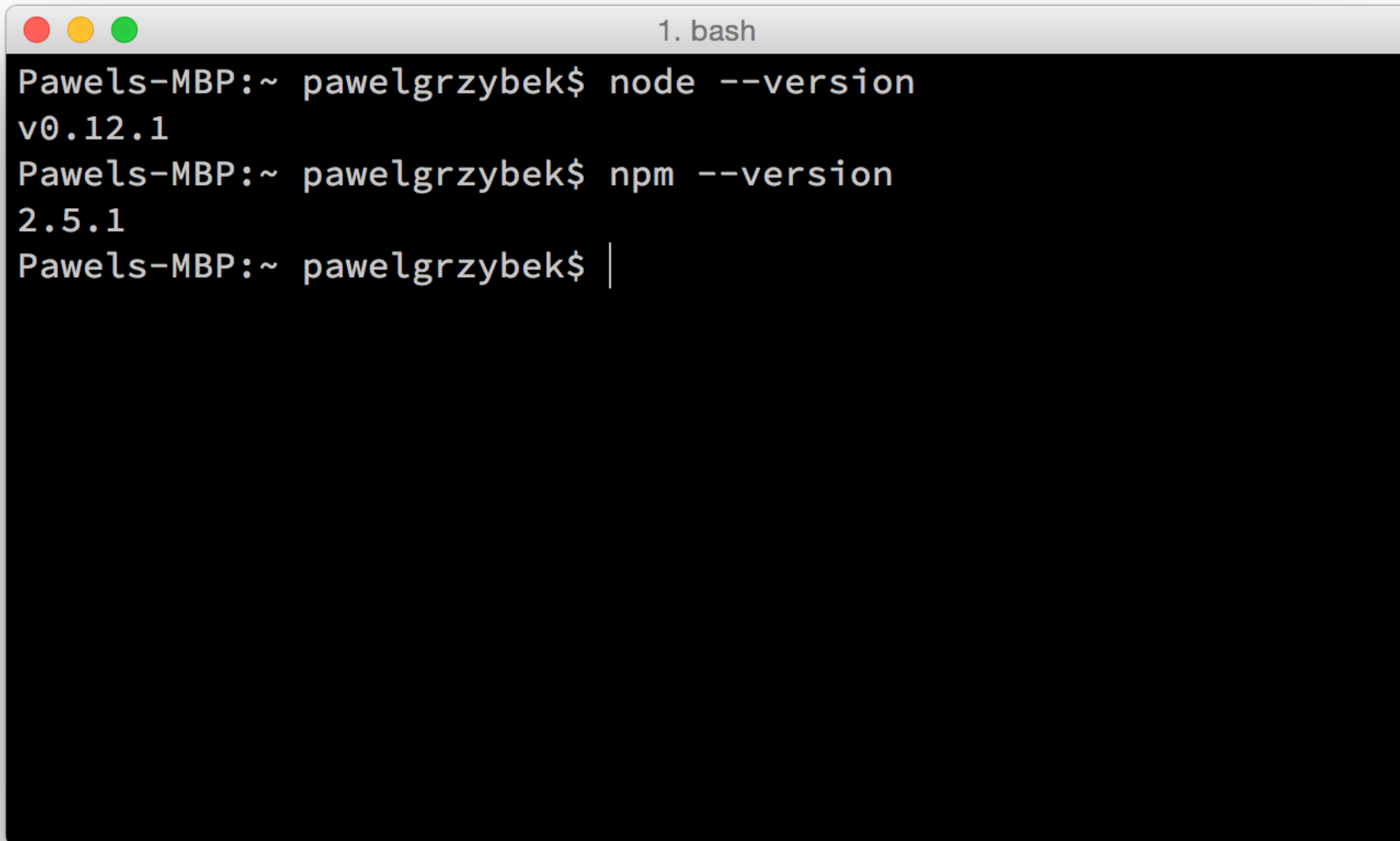
- Minify images
- Compile SASS, LESS, Stylus, TypeScript, CoffeeScript, Jade, HAML...
- Minify and concatenate files
- Add vendor prefixes to CSS properties
- Check and validate your markup, scripts and styles
- Run performance tests
- More, more, more, more...

Requirements

- Basic knowledge of Command Line
- node.js and npm





A terminal window with a light gray title bar containing three colored window control buttons (red, yellow, green) on the left and the text "1. bash" in the center. The terminal area has a black background with white text. The text shows a user running two commands: "node --version" and "npm --version", with their respective outputs "v0.12.1" and "2.5.1". The prompt "Pawełs-MBP:~ pawełgrzybek\$" is repeated for each command. The third line shows the prompt again with a cursor bar, indicating the user is ready to enter another command.

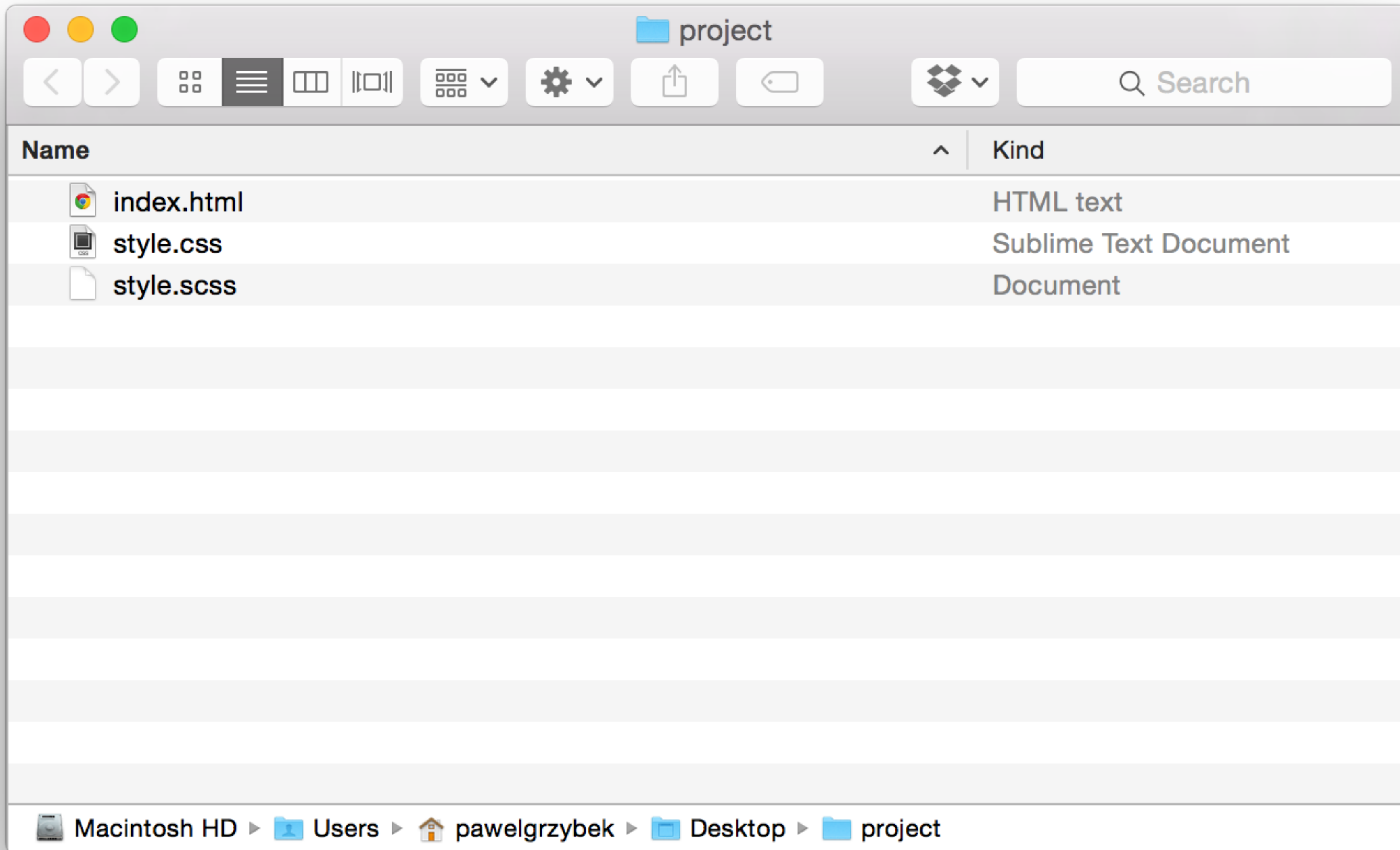
```
Pawełs-MBP:~ pawełgrzybek$ node --version
v0.12.1
Pawełs-MBP:~ pawełgrzybek$ npm --version
2.5.1
Pawełs-MBP:~ pawełgrzybek$ |
```

What do we need to make it work?

- Some project :)
- package.json file
- gulpfile.js

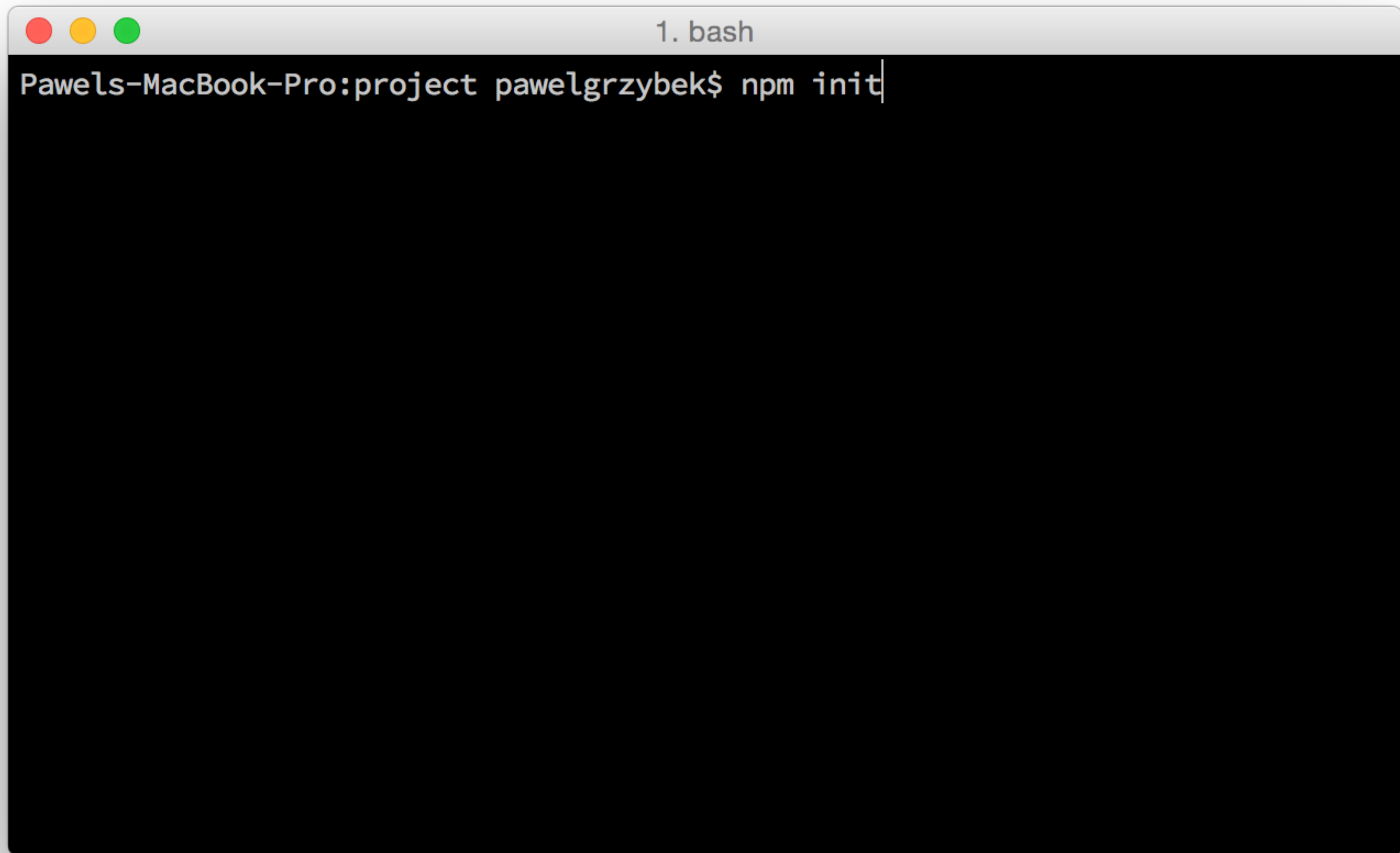
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What do we need to make it work?

- Some project :)
- **package.json** file
- gulpfile.js

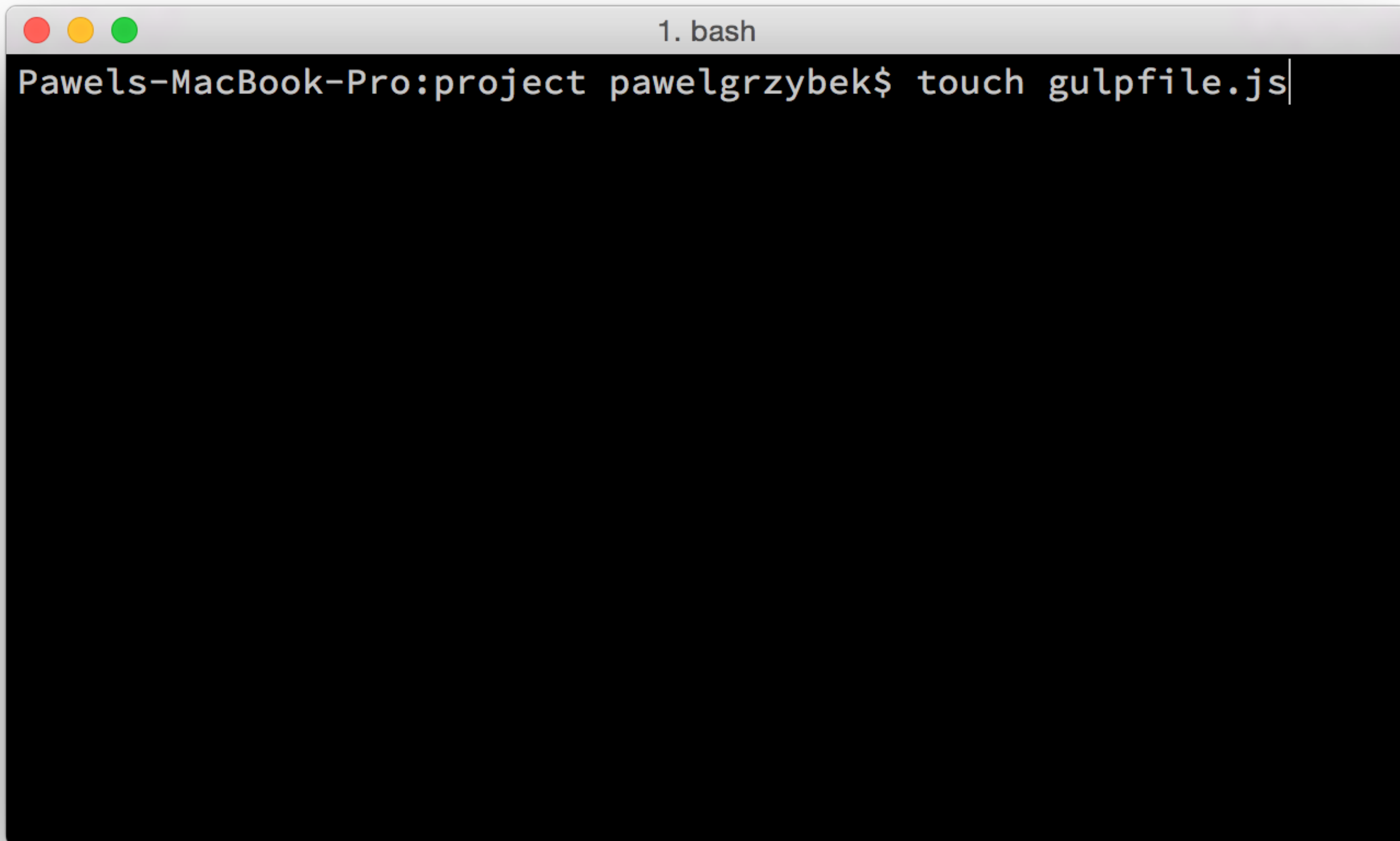


npm init

npm init

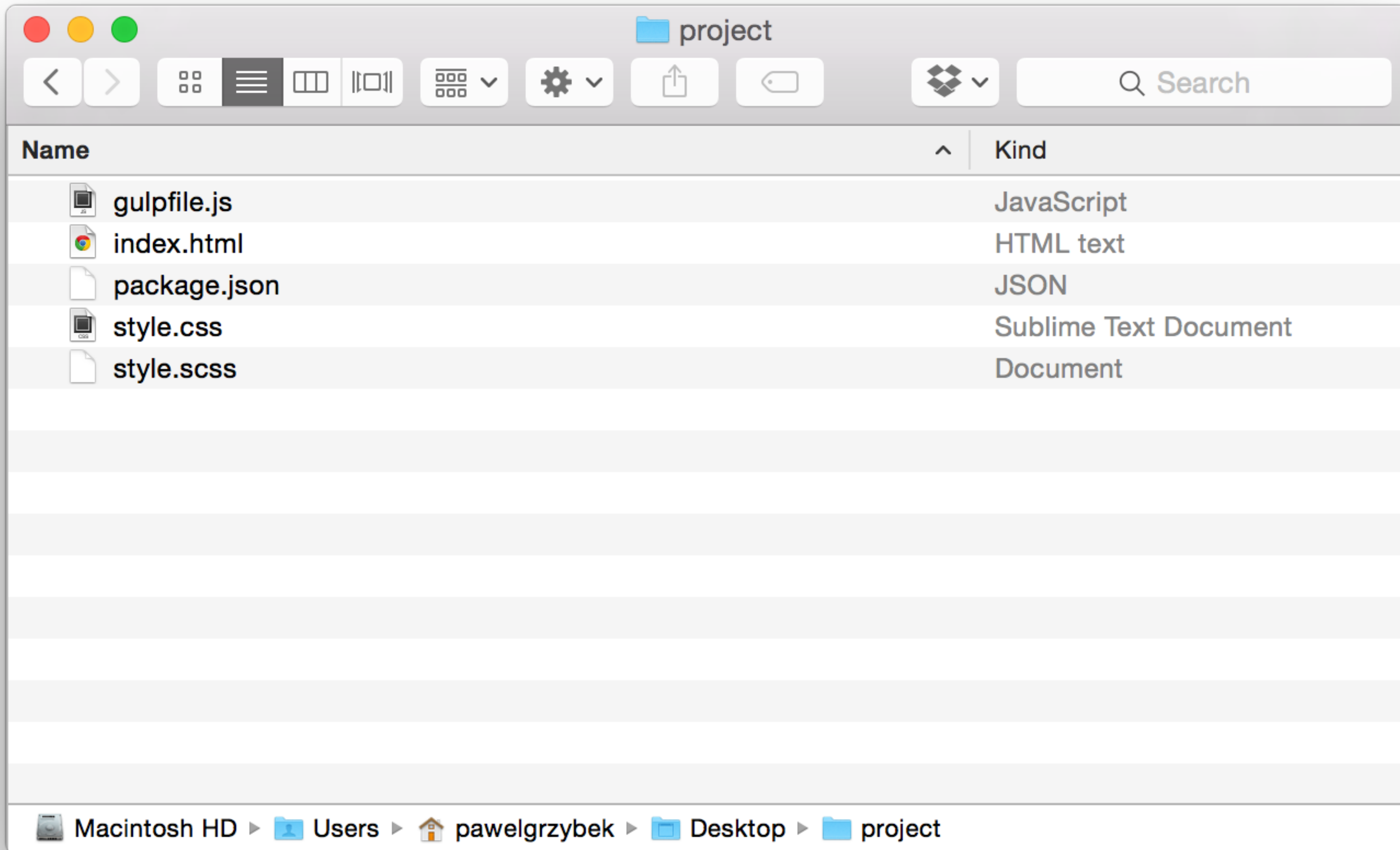
What do we need to make it work?

- Some project :)
- package.json file
- **gulpfile.js**



A terminal window with a light gray title bar containing three colored window control buttons (red, yellow, green) on the left and the text "1. bash" in the center. The main area of the window is black with white text. The text shows the current directory as "Pawełs-MacBook-Pro:project" and the user as "pawelgrzybek". A command "touch gulpfile.js" is being entered, with a white cursor at the end of the line.

```
1. bash
Pawełs-MacBook-Pro:project pawelgrzybek$ touch gulpfile.js|
```



What are we going to do with our project?

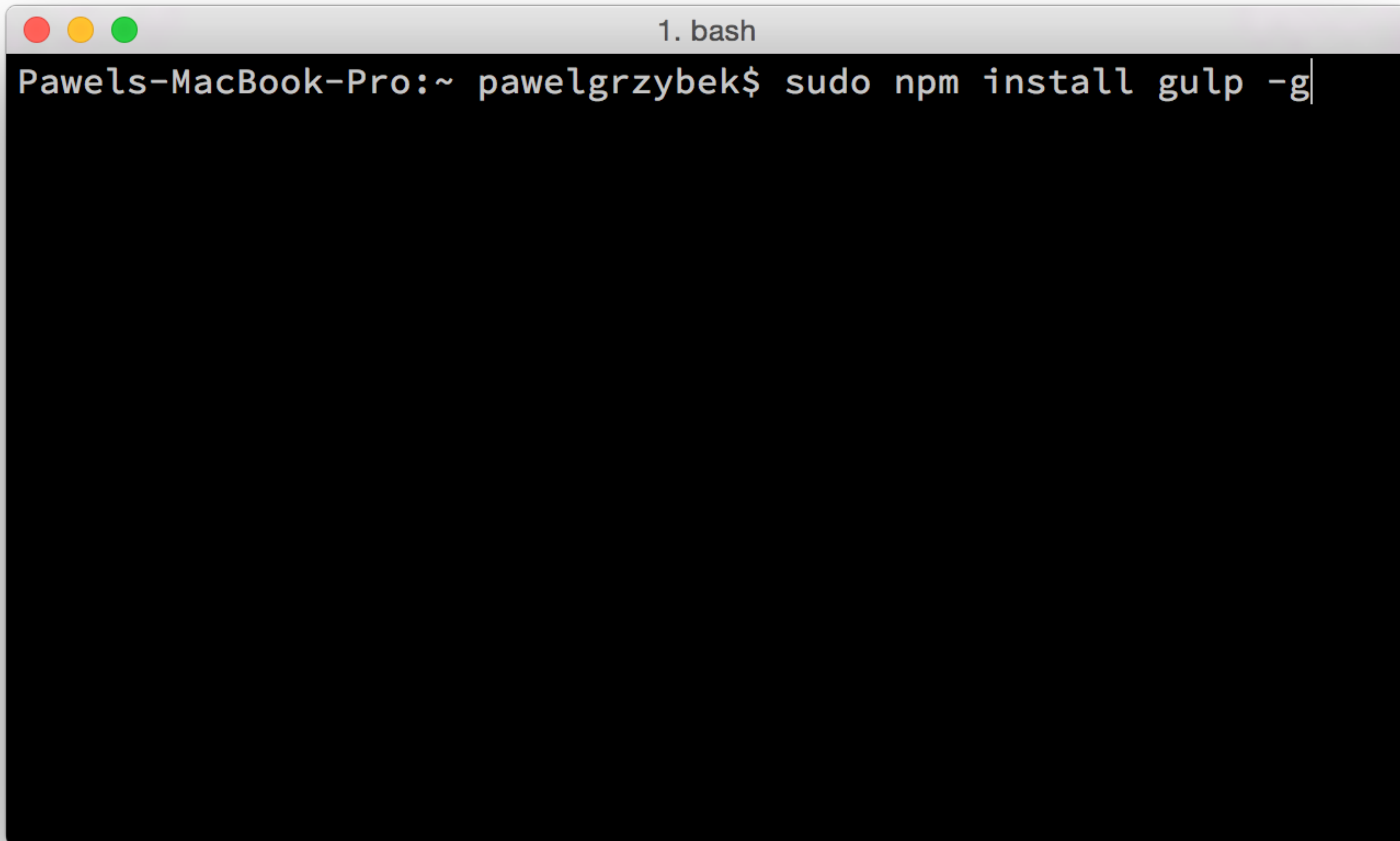
- Compile style.scss to style.css
- Add vendor prefixes (-webkit, -moz, -o, -ms)

Install gulp

- Install gulp globally (for your system)
- Install gulp locally (for your project)

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- Install gulp globally (for your system)
- Install gulp locally (for your project)



A terminal window titled "1. bash" with standard macOS window controls (red, yellow, green buttons). The prompt is "Pawel's-MacBook-Pro:~ pawelgrzybek\$". The command "sudo npm install gulp -g" is entered and partially executed, with a cursor at the end.

```
1. bash
Pawel's-MacBook-Pro:~ pawelgrzybek$ sudo npm install gulp -g|
```

```
sudo npm install gulp -g
```

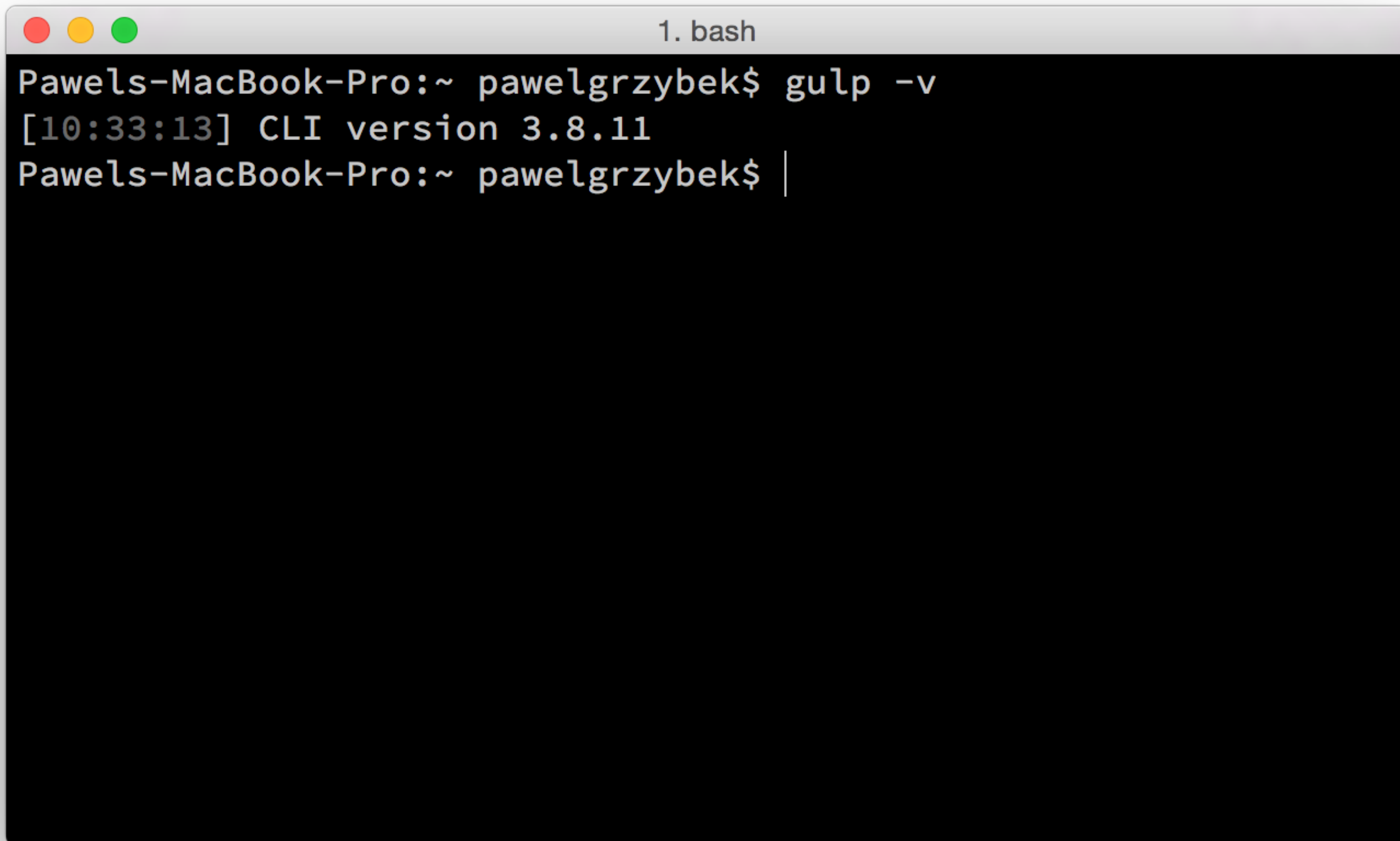
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sudo npm install gulp -g
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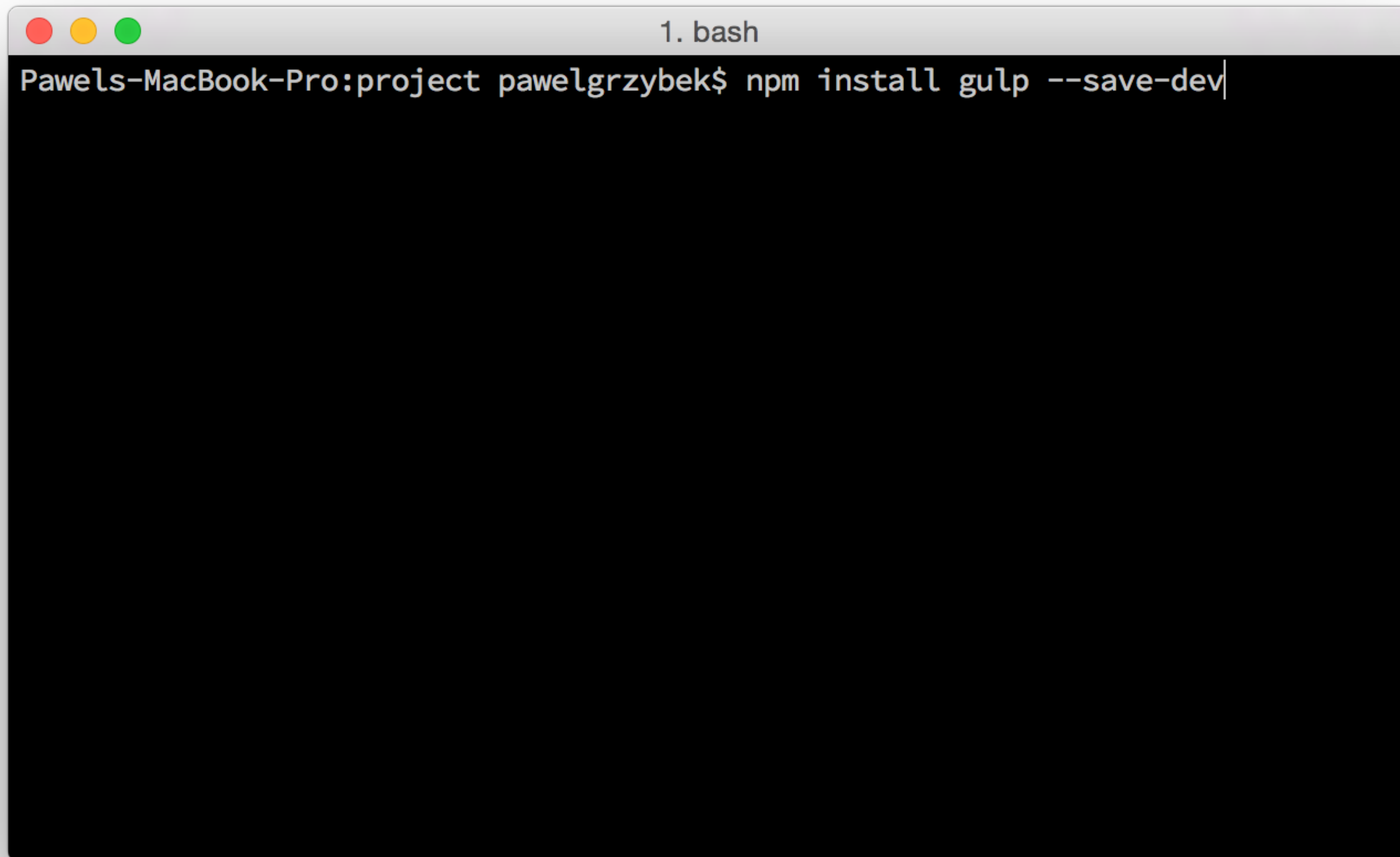
```
sudo npm install gulp -g
```

A screenshot of a macOS terminal window. The window has a title bar with three colored window control buttons (red, yellow, green) on the left and the text "1. bash" in the center. The terminal content shows a user running the command "gulp -v" in a shell. The output consists of two lines: "[10:33:13] CLI version 3.8.11" and a new prompt line "Pawełs-MacBook-Pro:~ pawelgrzybek\$ |".

```
1. bash
Pawełs-MacBook-Pro:~ pawelgrzybek$ gulp -v
[10:33:13] CLI version 3.8.11
Pawełs-MacBook-Pro:~ pawelgrzybek$ |
```

Install gulp

- Install gulp globally (for your system)
- **Install gulp locally (for your project)**



A screenshot of a macOS terminal window. The title bar at the top is light gray and contains three window control buttons (red, yellow, green) on the left and the text "1. bash" in the center. The main area of the window is black. The text "Pawel's-MacBook-Pro:project pawelgrzybek\$ npm install gulp --save-dev" is displayed in a white monospaced font at the top of the black area, with a white cursor line at the end of the command.

```
Pawel's-MacBook-Pro:project pawelgrzybek$ npm install gulp --save-dev|
```

```
npm install gulp --save-dev
```

```
npm install gulp --save-dev
```

```
npm install gulp --save-dev
```

```
npm install gulp --save-dev
```




1. bash

```
Pawel's-MacBook-Pro:project pawelgrzybek$ gulp -v
```

```
[11:41:54] CLI version 3.8.11
```

```
[11:41:54] Local version 3.8.11
```

```
Pawel's-MacBook-Pro:project pawelgrzybek$ |
```

It's all about plugins!

Full list of plugin you can find on <http://gulpjs.com/plugins/>

Search 1519 plugins...

What are we going to do with our project?

- Compile style.scss to style.css **gulp-sass**
- Add vendor prefixes (-webkit, -moz, -o, -ms) **gulp-autoprefixer**



1. bash

```
Pawełs-MacBook-Pro:project pawełgrzybek$ npm install gulp-sass gulp-autoprefixer  
er --save-dev
```

```
npm install gulp-sass gulp-autoprefixer --save-dev
```

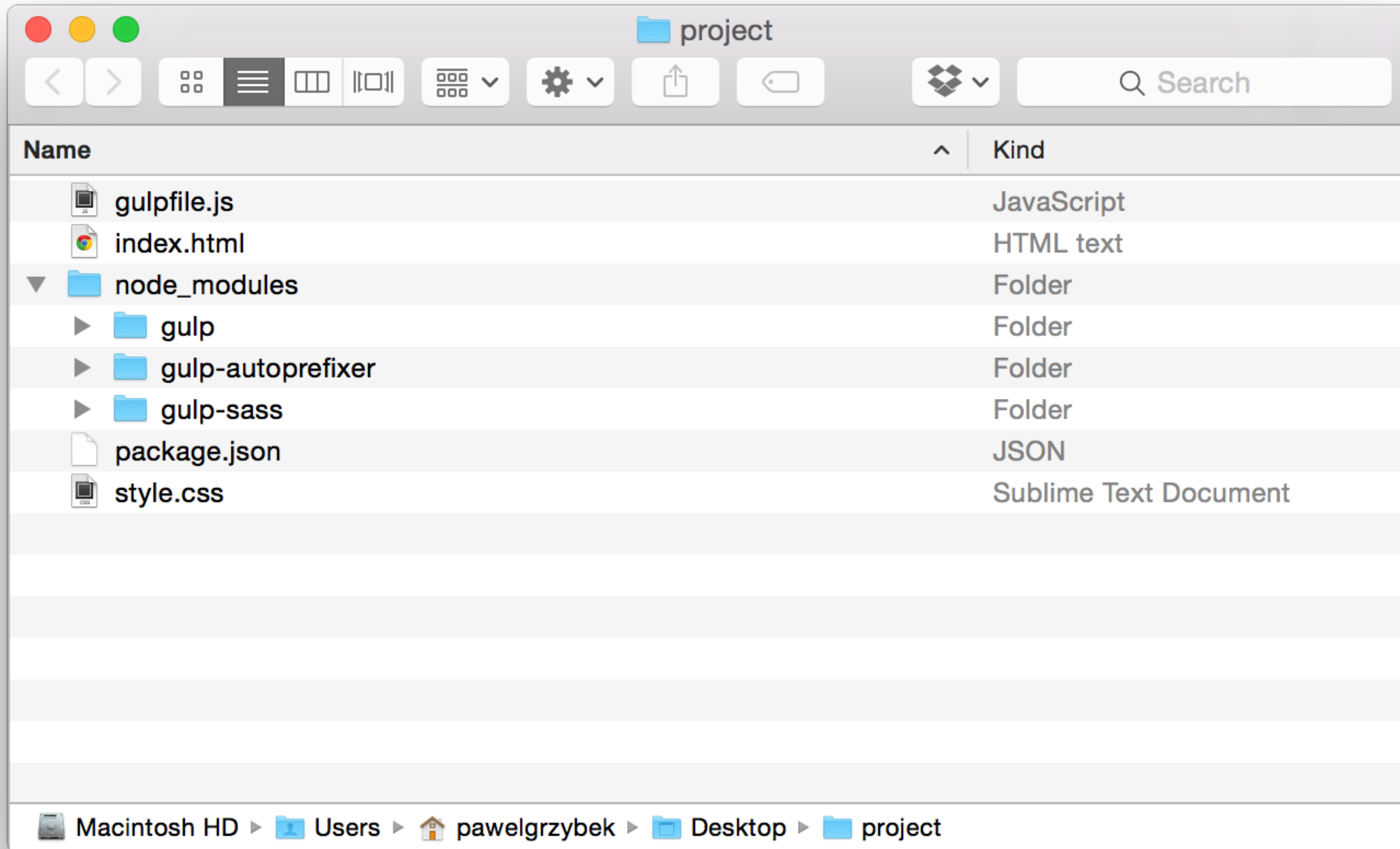
```
npm install gulp-sass gulp-autoprefixer --save-dev
```

```
npm install gulp-sass gulp-autoprefixer --save-dev
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npm install gulp-sass gulp-autoprefixer --save-dev
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npm install gulp-sass gulp-autoprefixer --save-dev
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Lets crete some useful stuff in gulpfile.js

- Define dependencies on top of gulpfile.js
- Create a task

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- Create a task

```
var gulp = require('gulp');
```

```
var gulp = require('gulp');  
var sass = require('gulp-sass');
```

```
var gulp = require('gulp');  
var sass = require('gulp-sass');  
var autoprefixer = require('gulp-autoprefixer');
```

Lets crete some useful stuff in gulpfile.js

- Define dependencies on top of gulpfile.js
- **Create a task**


```
gulp.task('sass', function() {  
  
});
```

```
gulp.task('sass', function() {  
  gulp.src('style.scss')  
});
```

```
gulp.task('sass', function() {  
    gulp.src('style.scss')  
        .pipe(sass())  
});
```

```
gulp.task('sass', function() {  
  gulp.src('style.scss')  
    .pipe(sass())  
    .pipe(gulp.dest('.'));  
});
```

```
gulp.task('sass', function() {  
  gulp.src('style.scss')  
    .pipe(sass())  
    .pipe(autoprefixer())  
    .pipe(gulp.dest('.'));  
});
```

Lets crete some useful stuff in gulpfile.js

- Define dependencies on top of gulpfile.js
- Create a task and watch changes automatically

```
gulp.task('watch', function() {  
  
});
```

```
gulp.task('watch', function() {  
  gulp.watch('./*.scss', ['sass']);  
});
```


Lets crete some useful stuff in gulpfile.js

- Define dependencies on top of gulpfile.js
- Create a task and watch changes automatically **and make it default**

```
gulp.task('default', ['watch']);
```

One more example

Did you like it? If you are keen to know more...

- <http://gulpjs.com/>
- <https://twitter.com/gulpjs>
- <http://leveluptuts.com/tutorials/learning-gulp>

Thank you!