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Require.js r.js JavaScript build-tools Optimization

# Using r.js to Optimize Your RequireJS Project



Once you learn the general concepts behind AMD (Asynchronous Module Definition) and RequireJS, it's not difficult to start using it in your projects. You might even go a bit further than the basics and start using some of the great loader plugins available for RequireJS (the "text" plugin for templates, for example). However, what exactly should you do with all these individual JavaScript files when the time comes to deploy your application to production? You *know* you can't just toss 30 or 40 modules into the wild – *each in individual files* 

– and expect your site to perform optimally. No worries - that's where r.js comes into play. We'll examine a lot of what you can do with r.js in this post. (I'm assuming you're familiar with RequireJS - if not, you might be interested in reading this or this first.)

Throughout this post, I'll be using a project of mine called "gif-stitch" as the "guinea pig" for r.js optimization examples.

# The RequireJS Optimizer

When you use RequireJS on a project, the very things that give you an advantage in the development/testing/debugging experience – separate files per module, unminified source, etc. – become weaknesses in a production deployment. At the highest level, r.js optimizes your RequireJS projects by concatenating & minifying your JavaScript modules and CSS files. So you get the best of both worlds - tailored-to-development and tailored-to-production scenarios. It's incredibly configurable - you can go as simple as combining your modules (without minifying), all the way to customizing the output into multiple combined modules, integrating CDN resources and more.

# Installing r.js

99.99% of the time you will be using node.js and your command prompt to run r.js. (You can check the documentation for more information about the other environments in which you can run r.js.) To install r.js using node, you just need to run this in your terminal/command prompt:

npm install -g requirejs

# Using r.js

## **Command Line Usage**

Again, I'll argue that 99.999% of the time, you'll use a "build.js" file (containing any

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necessary metadata for r.js to consume), as opposed to passing options on the command line. When you use a build file, most of the time the only command line option you need to pass is the build file to use:

(using node to run r.js & telling r.js to use the "build.js" file in the current directory for build-related metadata):

```
r.js -o build.js
```

You can override options in your "build .js" file by including them on the command line (since command line arguments take precendence). The r.js docs cover this in a bit more detail.

## **Programmatic Usage**

It's worth mentioning that the r.js module installed via node.js includes an API which can be used inside other node modules. (You can read more about that here.) This is especially useful if you are using any JavaScript-based build tools like anvil.js or grunt, since it allows you to easily incorporate r.js into your build process. (You can still incorporate r.js into non-JavaScript build processes, you'll typically be using a CLI-based approach instead.)

## **Putting it to Work**

So, let's pretend I've never optimized the project I mentioned at the start of the post ("gif-stich") – because I actually haven't.:-)

## Creating a Build File

The first thing I need to do is add a "build.js" file to my project. We'll start with this:

```
: "lib/postal.diagnostics.min",
       diags
       riveter : "lib/riveter.min",
       text
                 : "lib/text",
       underscore : "lib/underscore-min"
   },
    shim : {
       backbone : {
           deps : ["jquery", "underscore"],
           exports : "Backbone"
       },
       bootstrap : {
           deps : ["jquery"]
        },
       jqbase64 : {
           deps : ["jquery"],
           exports : "jQuery"
       neuquant : {
           exports : "NeuQuant"
       },
       omggif : {
           exports : "GifWriter"
       },
       underscore : {
           exports : "_
       }
   },
   baseUrl : "js",
   name: "main",
   out: "dist/main.js",
    removeCombined: true
})
```

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A few things to note about the above configuration:

- I've included my paths settings used by the app itself as well as the shim setup for non-AMD libraries.
- I've specified a baseUrl (all modules are located relative to this path an important fact, since the build.js file is in the project's root directory).
- I've used the name property to tell r.js which module I want to optimize: the main.js module.
- The out property tells r.js that the optimized output should go into the dist folder using the same module name of main.js.
- r.js will normally copy the stand-alone versions of concatenated modules to the
  output directory in addition to the combined output. I don't want those files
  muddying up my dist directory. I can prevent this by setting the removeCombined
  option to true.

So - I've saved the above file as build.js in the root of my project, and made sure I have a dist directory:



## Running r.js

Next - we'll run r.js in the terminal:

```
p master± > ~/git/oss/gif-stitch
» r.js -o build.js
                                                                Tracing dependencies for: main
Uglifying file: /Users/jim/git/oss/gif-stitch/dist/main.js
/Users/jim/git/oss/gif-stitch/dist/main.js
/Users/jim/git/oss/gif-stitch/js/lib/underscore-min.js
/Users/jim/git/oss/gif-stitch/js/lib/postal.js
/Users/jim/git/oss/gif-stitch/js/lib/postal.diagnostics.min.js
/Users/jim/git/oss/gif-stitch/js/lib/jquery-1.10.2.min.js
/Users/jim/git/oss/gif-stitch/js/lib/backbone-min.js
/Users/jim/git/oss/gif-stitch/js/lib/bootstrap.min.js
/Users/jim/git/oss/gif-stitch/js/lib/jquery.base64.min.js
/Users/jim/git/oss/gif-stitch/js/lib/monologue.min.js
/Users/jim/git/oss/gif-stitch/js/lib/monopost.min.js
/Users/jim/git/oss/gif-stitch/js/main.js
```

From the screenshot above you can see we ran r.js -o build.js, and r.js was nice enough to tell us what it was doing as it optimized the project. You can see that it started with the main.js module, "traced it's dependencies" (more on that in a second), and it lists the files it's concatenating/minifying as it processes them. Great. But there's a HUGE problem here.

## Tweaking the Build File

So what's the problem? I only see the main.js module and the 3rd party dependencies in my lib directory. However, main.js module requires the app.js module as well - and by including app.js, I should see the *rest of the modules in the project* listed here as

well. What happened? Let's look at the relevant snippet from main.js:

```
require( [ "diags", "backbone", "bootstrap", "jqbase64", "monopost" ], function () {
    require( [ "app" ], function ( app ) {
        app.init();
    } );
} );
```

It looks like r.js honored the first require call as it traced main.js 's dependencies- the one that includes "diags", "backbone", "bootstrap", etc., but ignored the second require call that pulls in the app.js module. As it turns out, that's *exactly* what happened. r.js will assume that "nested" require calls are intended to happen at runtime, unless you tell it otherwise.

We can tell r.js to look for those nested require calls by adding findNestedDependencies: true to our build.js configuration. But let's not stop there. One of the things I hate about our build.js file at the moment is that it's duplicating the path and shim configuration we use in our main.js module. Wouldn't it be great if we could just re-use that? We can! Our build.js just needs to look like this:

```
({
    mainConfigFile : "js/main.js",
    baseUrl : "js",
    name: "main",
    out: "dist/main.js",
    removeCombined: true,
    findNestedDependencies: true
})
```

So, in addition to adding the findNestedDependencies property, we've added the mainConfigFile property, passing the path to our main.js module as the value.r.js will look for the first requirejs({}), require({}), requirejs.config({}) or require.config({}) call in our main.js module and use that.

Here's the output of running with our tweaked build.js:

```
p master± > ~/git/oss/gif-stitch
 r.js -o build.js
Tracing dependencies for: main
Uglifying file: /Users/jim/git/oss/gif-stitch/dist/main.js
/Users/jim/git/oss/gif-stitch/dist/main.js
/Users/jim/git/oss/gif-stitch/js/lib/underscore-min.js
/Users/jim/git/oss/gif-stitch/js/lib/postal.js
/Users/jim/git/oss/gif-stitch/js/lib/postal.diagnostics.min.js
/Users/jim/git/oss/gif-stitch/js/lib/jquery-1.10.2.min.js
/Users/jim/git/oss/gif-stitch/js/lib/backbone-min.js
/Users/jim/git/oss/gif-stitch/js/lib/bootstrap.min.js
/Users/jim/git/oss/gif-stitch/js/lib/monologue.min.js
/Users/jim/git/oss/gif-stitch/js/lib/monopost.min.js
/Users/jim/git/oss/gif-stitch/js/lib/riveter.min.js
/Users/jim/git/oss/gif-stitch/js/lib/backbrace.js
/Users/jim/git/oss/gif-stitch/js/InputModel.js
/Users/jim/git/oss/gif-stitch/js/lib/text.js
text!templates/InputViewTemplate.html
/Users/jim/git/oss/gif-stitch/js/views/InputView.js
text!templates/gifItemTemplate.html
text!templates/progressTemplate.html
text!templates/capturingTemplate.html
text!templates/renderingTemplate.html
/Users/jim/git/oss/gif-stitch/js/lib/machina.js
/Users/jim/git/oss/gif-stitch/js/views/GifItem.js
/Users/jim/git/oss/gif-stitch/js/views/GifCollectionView.js
/Users/jim/git/oss/gif-stitch/js/urlHelpers.js
/Users/jim/git/oss/gif-stitch/js/GifWorker.js
/Users/jim/git/oss/gif-stitch/js/app.js
/Users/jim/git/oss/gif-stitch/js/main.js
```

Now we're talking! We can see that more than just our lib directory and main.js modules were optimized. Not only that - our templates were optimized as well, since we're using the "text" loader plugin.

#### Still Not Satisfied

Sure, what we have so far works. If we wanted to stop here (we don't, trust me), all we have to do is change our main script element to look like this:

```
<script src="js/lib/require.js" data-main="dist/main"></script>
```

This isn't going to win any ribbons at the AMD fair (I know, but there *should* be one, really :-)). There are several things I'd want to change:

- We've bundled everything into one file. This isn't necessarily bad, but I might want to separate our modules into the following groups:
  - app modules (files directly related to the features of the app)
  - 3rd party modules
  - 3rd party modules available on CDN
- Our require.js and main.js files are in two different directory trees the js directory
  is obviously our "development" area, and dist is production. It would be a good idea
  to have our production assets all in dist in this case.
- · We haven't optimized our CSS yet.

Let's tackle these one step at a time.

## Going From One Combined File to Multiple Files

In our build.js file, we've used the name and out properties to indicate a single starting point (name: "main") and a single output file (out: "dist/main.js"). Now we get

to change things up a bit and fine-tune how we're combining modules.

r.js supports a modules property in our build.js file - which let's us specify an array of output files, instead of being limited to one. So, let's take the goals I mentioned above, and tailor how our files are combined.

## Generating a Combined File With Only App Modules

Here's the modified build.js:

```
({
    mainConfigFile : "js/main.js",
    baseUrl: "js",
    removeCombined: true,
    findNestedDependencies: true,
    dir: "dist",
    modules: [
       {
            name: "main",
            exclude: [
                "backbone",
                "backbrace",
                "bootstrap",
                "jquery",
                "jqbase64",
                "machina",
                "monologue",
                "monopost",
                "neuquant",
                "omggif",
                "postal",
                "diags",
                "riveter",
                "text",
                "underscore"
            ]
        }
    ]
})
```

You can see from the above snippet that we've removed the <code>name</code> and <code>old</code> properties and added <code>dir</code> (indicating our output directory) and <code>modules</code>. The <code>modules</code> array (for now) only contains an output module definition for our <code>main</code> module. The <code>name</code> property of the first module in the array indicates that we want to concatenate our <code>main.js</code> module <code>\delta</code> its dependencies, and the <code>exclude</code> array includes a list of modules that should <code>not</code> be included in the concatenated output.

If we examine our dist directory after running r.js with this configuration, we'd see the following:

```
dist/
   lib/
        backbone-min.is
       backbone-min.map
        backbrace.js
       bootstrap.min.js
        jquery.base64.min.js
       machina.is
       monologue.min.is
        monopost.min.js
       NeuQuant.js
       omggif.js
       postal.diagnostics.min.js
        postal.js
        require.js
        riveter.min.js
        text.js
       underscore-min.is
       underscore-min.map
    templates/
       capturingTemplate.html
        gifItemTemplate.html
        InputViewTemplate.html
        progressTemplate.html
        renderingTemplate.html
    build.txt
   main.js
   omggif-worker.js
```

#### A few observations:

- You'll notice that our templates were copied into the dist directory. They were also concatenated into module wrappers and combined into the main module output.
   The templates will be pulled from the combined main module, not from the copied templates directory. It's quite common (if you're using the "text" loader plugin), to remove these copied templates as part of your build process.
- You'll also notice that the remaining modules (and the source maps) –everything we excluded were copied to the dist/lib directory (they were also minified).
- You might also notice that a build.txt file was created it contains the output you also see on the command line.

Great - that's a start in the right direction.

#### Creating a Combined File for Third Party Dependencies

Remember all those modules we excluded from our combined main module? Let's assume we'd like to bundle them into a combined module as well. (The assumption might be that our app code – everything we combined into our main module – will change more frequently than our 3rd party dependencies, and we'd like to be cognizant of caching.) There are a couple of ways we can accomplish this:

- We could add a module output definition to our modules array which combines our 3rd party modules under a file name that gets loaded *first* ( diags , in this case, if you refer to the very first module required in our main module).
- Or we could admit that the above idea is horrible (& brittle), and instead create a "loader module" that our main module requires as a dependency. For example, we'd change our main module's require call to look like this:

```
require( [ "infrastructure" ], function () { require( [ "app" ], function ( app ) { app.init(); }
); });
```

Next, we'd create an infrastructure.js file that looks like this:

```
define([
    "diags",
    "backbone",
    "backbrace",
    "bootstrap",
    "jqbase64",
    "monopost",
    "machina",
    "text"
], function() { });
```

Our infrastructure module has no real behavior of it's own, other than ensuring that our "infrastructure" libraries are loaded. This provides not only a module to easily *exclude* from what gets included in the main module's output, but an easy module for r.js to crawl to find all the infrastructure-related dependencies (our 3rd party libraries). Here's our modified build file:

```
({
    mainConfigFile : "js/main.js",
    baseUrl: "js",
    removeCombined: true,
    findNestedDependencies: true,
    dir: "dist",
    modules: [
       {
            name: "main",
            exclude: [
                "infrastructure"
       },
       {
            name: "infrastructure"
       }
    ]
})
```

The console output after running r.js with this configuration will look like this:

```
p master± ~/git/oss/gif-stitch
Tracing dependencies for: main
Tracing dependencies for: infrastructure
InputModel.js
views/InputView.js
text!templates/gifItemTemplate.html
text!templates/capturingTemplate.html
text!templates/renderingTemplate.html
views/GifItem.js
views/GifCollectionView.js
GifWorker.js
infrastructure.js
lib/underscore-min.js
lib/postal.diagnostics.min.js
lib/backbrace.js
lib/jquery.base64.min.js
lib/monologue.min.js
lib/machina.js
```

Great! This is a good step forward. Our build.js file is a bit cleaner with the infrastructure module involved, and we now have two files of selected combined modules. What if we want to pull some of the 3rd party dependencies from a CDN?

## Allowing for CDN-based Resources

Let's assume I want to pull machina.js from cdnjs, and also allow a fallback to a local path. First thing to change is our paths configuration in our main.js module:

```
require.config({
   paths: {
       backbone : "lib/backbone-min",
       backbrace : "lib/backbrace",
       bootstrap : "lib/bootstrap.min",
                 : "lib/jquery-1.10.2.min",
       jquery
       jqbase64 : "lib/jquery.base64.min",
       machina
                 : [ "http://cdnjs.cloudflare.com/ajax/libs/machina.js/0.3.4/machina.min", "l
ib/machina" ],
       monologue : "lib/monologue.min",
       monopost : "lib/monopost.min",
       neuquant : "lib/NeuQuant",
       omggif
                  : "lib/omggif",
       postal
                 : "lib/postal",
                  : "lib/postal.diagnostics.min",
       diags
       riveter : "lib/riveter.min",
                 : "lib/text",
       text
       underscore : "lib/underscore-min"
   },
   // MORE CONFIG HERE
});
// REQUIRE OUR MODULES, ETC.
```

Only problem is, if we try to run r.js, we will see the following error:

Not a problem. We can provide a path override for the machina module. When you want to let r.js resolve a dependency to a path, but *prevent* it from being included in the concatentated output, you can use the value of "empty:". For example:

```
({
   mainConfigFile : "js/main.js",
   baseUrl: "js",
   removeCombined: true,
   findNestedDependencies: true,
   dir: "dist",
   modules: [
       {
            name: "main",
            exclude: [
                "infrastructure"
            1
       },
       {
            name: "infrastructure"
        }
   ],
   paths: {
       machina: "empty:"
   }
})
```

If we examine our console output when we run this build, we'll see that machina is no longer listed in the modules that were concatenated into the infrastructure module:

machina is now being pulled from cdnjs (and falling back to the local lib/machina if the CDN is down). So - modules directly related to app features all combined and minified into one file? Check. Third party (and hopefully less-frequently-changing) modules combined and minified into another file? Check. CDN resources? Check.

But we're not done. Let's look at what we can do with our css.

## **Optimizing CSS**

We have three CSS files in this project:

```
<link rel="stylesheet" type="text/css" href="css/bootstrap.css">
<link rel="stylesheet" type="text/css" href="css/bootstrap-theme.css">
<link rel="stylesheet" type="text/css" href="css/style.css">
```

If we'd like to *attempt* to produce a single concatenated CSS output file, we can remove the bootstrap references from our <code>index.html</code> and import them, instead, inside <code>style.css</code>:

```
@import url('/css/bootstrap.css');
@import url('/css/bootstrap-theme.css');
/* style.css content here... */
```

You might have caught the fact that I said "attempt" - that's because it's not always possible to "inline" CSS files inside of another in place of an import statement. In fact, that's the case with this sample app (note the output stating "Cannot inline css import..."):

This isn't a show-stopper in our case. Our @import statements still work, and the CSS in all three of our CSS files will be inlined inside their own files.

So - what does our build.js look like now?

```
mainConfigFile : "js/main.js",
    appDir: "./",
   baseUrl: "js",
    removeCombined: true,
    findNestedDependencies: true,
   dir: "dist".
   optimizeCss: "standard",
   modules: [
        {
            name: "main",
            exclude: [
                "infrastructure"
            1
        },
        {
            name: "infrastructure"
        }
   1,
   paths: {
        machina: "empty:"
})
```

You'll notice two new additions:

- appDir this tells r.js the top level directory that contains our entire app/project. Up until now we'd only been optimizing JavaScript but we've moved on to bigger and better things by including CSS so we're targeting our whole project.
- optimizeCss this property can be one of five values:
  - none as you'd expect, no CSS optimization will occur
  - standard tries to inline imports, removes comments and line endings
  - standard.keeplines just like standard, but doesn't remove line endings
  - standard.keepComments keeps comments, but removes line endings
  - standard.keepComments.keeplines keeps comments and line endings

It's important to note that now that we're optimizing CSS, and using the appDir property, our dist folder is now entirely a "built" version of the project, not just the project's JavaScript. Here's what the directory looks like (after I removed the templates directory as well as the build.txt & build.js files):

```
dist/
    css/
       bootstrap.css
       bootstrap-theme.css
       style.css
        glyphicons-halflings-regular.eot
        glyphicons-halflings-regular.svg
        glyphicons-halflings-regular.ttf
        glyphicons-halflings-regular.woff
   js/
        lib/
            backbone-min.map
            jquery-1.10.2.min.map
            machina.js
            NeuQuant.js
            omggif.js
            require.js
            underscore-min.map
        infrastructure.js
        omggif-worker.js
   index.html
```

Running the app from the dist directory, at this point, works without any issues. We've come a long way in a short amount of time in optimizing our RequireJS setup. Let's take a quick look at a couple of additional features possible with r.js.

#### Other Features

#### **Shallow Exclusion**

While developing your app, you might prefer to have performance closer to production quality - and accomplish this by running r.js and using the combined (but un-minified) file(s) to run your dev environment. However - what can you do if one of your modules has a bug? You certainly don't want to debug a combined module if you don't have to. r.js allows you to exclude that one module (but *not* its dependencies) from being concatenated with the rest. For example, what if we wanted to prevent our InputView module from being concatenated with our main module? Our build.js file would look like this:

```
({
   mainConfigFile : "js/main.js",
    appDir: "./",
   baseUrl: "js",
    removeCombined: true,
   findNestedDependencies: true,
   dir: "dist",
   optimize: "none",
   optimizeCss: "standard",
   modules: [
       {
            name: "main",
            exclude: [
                "infrastructure"
            ],
            excludeShallow : [
                "views/InputView"
            1
       },
        {
            name: "infrastructure"
       }
   ٦,
   paths: {
        machina: "empty:"
   }
})
```

This results in our dist directory looking like this:

```
dist/
   css/
        bootstrap.css
       bootstrap-theme.css
        style.css
    fonts/
        {\tt glyphicons-halflings-regular.eot}
        glyphicons-halflings-regular.svg
        glyphicons-halflings-regular.ttf
        glyphicons-halflings-regular.woff
   js/
       lib/
            backbone-min.map
            jquery-1.10.2.min.map
            machina.js
            NeuQuant.js
            omggif.js
            require.js
            underscore-min.map
        views/
            InputView.js
        infrastructure.js
       main.js
        omggif-worker.js
    index.html
```

Our InputView module appears as a stand-alone file - easy for us to debug without having to search through the combined output of the main module.

## **Generating Source Maps**

It's currently an experimental feature, but r.js supports generating source maps for your minified modules. (Note: This only works for mapping minified JavaScript to the unminified source - so no source-mapping for transpiled JavaScript.) To enable this option, simply add generateSourceMaps: true to the build.js file:

```
({
   mainConfigFile : "js/main.js",
   appDir: "./",
   baseUrl: "js",
   removeCombined: true,
   findNestedDependencies: true,
   dir: "dist",
   optimize: "none",
   optimizeCss: "standard",
   modules: [
        {
            name: "main",
            exclude: [
                "infrastructure"
        },
            name: "infrastructure"
        }
   ],
   paths: {
       machina: "empty:"
   generateSourceMaps: true
})
```

The resulting dist directory would include source maps for the main and infrastructure modules:

```
dist/
   css/
        bootstrap.css
        bootstrap-theme.css
        style.css
    fonts/
        glyphicons-halflings-regular.eot
        glyphicons-halflings-regular.svg
        glyphicons-halflings-regular.ttf
        glyphicons-halflings-regular.woff
   js/
       lib/
            backbone-min.map
            jquery-1.10.2.min.map
            machina.js
            NeuQuant.js
            omggif.js
            require.js
            underscore-min.map
        infrastructure.js
        infrastructure.js.map
        main.js
        main.js.map
        omggif-worker.js
    index.html
```

## So Much More...

There's still quite a bit more you can configure r.js to handle for you: injecting define wrappers, choosing between uglify, uglify2 or closure for minifying your code, translating CommonJS modules to AMD, utilizing pragmas, choosing a default locale to include in a build when using the i18n plugin and more. I recommend reading through the documentation to get more familiar with the options we haven't covered. However, the best resource (IMO) for diving into the configuration options for r.js is this sample build file. You'll find yourself referring to it a lot.

Happy optimizing!

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Jesús Gómez 2 days ago · Like

1) What would you do in order to also use the minified machina?. Your program end up falling back to a not minified machina.js if CDN is down.

2) In the "Generating a Combined File With Only App Modules", what change will you do to the "main script element" in the html in order to use the minified version of the excluded files.

3) How would you optimize and include the require.js itself in the dist? Manually?.

→ Reply



Vijaya Anand one month ago · Like

I've one more question though how I need to have only the combined CSS and js files along with fonts in the dist folder. I don't want to keep the library and other CSS files. How I can do that? I'm using grunt by the way.

→ Reply



Vijaya Anand one month ago · Like

Does requirejs optimizer can concatenate CSS files?



Vijaya Anand one month ago · Like

I missed the fact I should use relative paths in @import statements. Now it's working fine.



Jim Cowart 4 months ago · Like

@David Silva - so glad it was helpful!

→ Reply



David Silva 4 months ago · Like

This was great. I had trouble with the documentation for optimizer but your tutorial was easy to follow and I had no problems adapting it to my own project. Thanks!

→ Reply



Reuben Helms 10 months ago · Like

What happened with jquery in the infrastructure.js? It seems to be missing, but

present in the screenshot showing infrastructure.js being built.

Later on, jquery is also missing from the dist? Is that because it was also modified to use a CDN, as machina was?

I also noticed that jqbase4 exports jQuery. Would you just have an entry for jquery exporting jQuery, if you weren't using jquery.base64?





Jamie Rolfs 11 months ago · Like

Is that a zshell theme you're using for your prompt? (sorry for off topic comment)



Jim Cowart 11 months ago · Like

Jaime - no worries! :-) I stole most of the setup Remy Sharp describes in this blog: http://remysharp.com/2013/07/25/my-terminal-setup/. Really love it so far.

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