# $\mathbf{pyramid}_webpack$ Release 0.1.0

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A Pyramid extension for managing assets with Webpack.

Code lives here: https://github.com/stevearc/pyramid\_webpack

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# **User Guide**

# 1.1 Getting Started

These instructions will get you up and running with a minimal Pyramid app and a basic webpack configuration.

# 1.1.1 Set up the Pyramid app

Skip this section if you already have a Pyramid server up and running. Set up a virtualenv and create a new Pyramid project:

```
virtualenv venv
source venv/bin/activate
pip install pyramid
pcreate -s starter hello_world
cd hello_world
pip install -e .
```

You should be able to run the server with pserve development.ini and see it working.

# 1.1.2 Install and configure pyramid\_webpack

We're also going to install pyramid\_jinja2 as the templating engine.

```
pip install pyramid_jinja2 pyramid_webpack
```

Add the following to your development.ini file:

```
# If this option already exists, append the values
pyramid.includes =
    pyramid_jinja2
    pyramid_webpack
jinja2.extensions =
        pyramid_webpack.jinja2ext:WebpackExtension

# Reloads file changes and requests wait while webpack is compiling
webpack.debug = True
# Directory containing the webpack bundles. Relative to your package root.
webpack.bundle_dir = webpack/bundles
# File containing the webpack stats. Relative to your package root.
webpack.stats_file = webpack/stats.json
```

## 1.1.3 Set up webpack

You will need to have Node installed and in your PATH for the following steps.

```
npm init
npm install --save-dev webpack webpack-bundle-tracker babel babel-loader
```

Put the following into webpack.config. js

```
var path = require("path")
var BundleTracker = require('webpack-bundle-tracker')
module.exports = {
 context: __dirname,
  entry: './assets/js/index',
  output: {
     path: path.resolve('./hello_world/webpack/bundles/'),
      filename: "[name]-[hash].js",
  },
  plugins: [
   new BundleTracker({filename: './hello_world/webpack/stats.json'}),
  ],
 module: {
   loaders: [
        test: /\.js$/,
       exclude: /node_modules/,
       loader: 'babel-loader'
      },
   ],
  },
  resolve: {
   modulesDirectories: ['node_modules'],
   extensions: ['', '.js']
  },
```

Create a javascript file to be built by webpack:

```
mkdir -p assets/js/
echo "var n = document.createElement('h1'); n.innerText = 'Javascript loaded'; document.body.appendCl
```

# 1.1.4 Running everything

Run the Pyramid server with:

```
pserve --reload development.ini
```

Run webpack with:

```
./node_modules/.bin/webpack --config webpack.config.js -d --progress --colors --watch
```

## 1.1.5 Using in templates

To render a bundle inside a Chameleon template, we're going to call get\_bundle directly. Create a file called hello\_world/templates/index.pt and add the following:

Then change the renderer in hello\_world/views.py to be templates/index.pt. When you reload the webpage it should now say "Javascript Loaded".

To render a bundle in Jinja2, make a template called hello\_world/templates/index.jinja2 and add the following:

Then change the renderer in hello\_world/views.py to be templates/index.jinja2. When you reload the webpage it should now say "Javascript Loaded".

# 1.2 Configuration

## 1.2.1 Options

#### webpack.debug

Argument: bool, inherits, default False

If True the server will re-read the stats file for each request and requests will block while webpack is running. See *webpack.timeout* to configure how long the requests will wait for webpack.

#### webpack.static\_view

Argument: bool, default True

1.2. Configuration 5

If True, pyramid\_webpack will automatically set up the static view(s) for you. Disable this if you want to call add\_static\_view yourself (e.g. if you need to pass in custom parameters).

#### webpack.bundle\_dir

#### Argument: str

The directory that contains the compiled webpack bundles. This may be in three forms:

- raw\_relative\_path This path will be relative to your root project package
- package:relative\_path This is a path relative to a package location
- /absolute/path An absolute path on disk

You will almost always need to supply a *bundle\_dir*, but if you are using an external webserver for webpack.static\_view\_name, then you don't need to provide it.

## webpack.static\_view\_name

Argument: str, default webpack-DEFAULT

This will be the name argument passed to add\_static\_view.

#### webpack.stats\_file

Argument: str, default webpack-stats.json

The location of the webpack stats file generated by the webpack-bundle-tracker plugin. This path may be in the same three formats as webpack.bundle\_dir.

#### webpack.timeout

**Argument:** float, inherits, default 0

Requests will block for this many seconds while waiting for webpack to finish compiling (if webpack.debug = True). A value of 0 will wait indefinitely.

#### webpack.ignore

**Argument:** list, inherits, default \*.hot-update.js, \*.map

When getting a bundle, ignore chunks that match these patterns. Uses glob matching.

#### webpack.ignore re

**Argument:** list, inherits

When getting a bundle, ignore chunks that match these patterns. Uses PCRE matching.

#### webpack.configs

## **Argument:** list

List of names of other webpack configurations to load. See the section below for more detail.

## 1.2.2 Multiple Configs

```
webpack.debug = True
webpack.bundle_dir = webpack/bundles
webpack.stats_file = webpack/stats.json
webpack.configs =
    other

webpack.other.bundle_dir = webpack/other/bundles
webpack.other.stats_fie = webpack/other/stats.json
```

For any of the options that are marked as inherits (for example, webpack.debug), it will default to whatever value was provided to the default configuration. For example, the value of webpack.other.debug in the above example will default to True because webpack.debug = True.

For information on how to render bundles from different configs, see the docs on Rendering bundles into templates.

# 1.2.3 Static View Examples

Here we'll go over a couple of example configurations for the asset static views and how they differ.

The simplest version can be used in development or production, and will serve the static assets using pyramid:

```
webpack.bundle_dir = webpack/bundles
```

If you're running in production and want to serve the assets from a CDN, you can instead use a static view name:

```
# Don't need a webpack.bundle_dir
webpack.static_view_name = //my.cdn.com/
```

And if you want to full control over how the static views are set up, you can disable them:

```
webpack.static_view = False
```

And set it up yourself:

# 1.3 Rendering bundles into templates

# 1.3.1 Jinja2

Rendering bundles into jinja2 uses the webpack tag.

```
{% webpack 'main' %}
  <script type="text/javascript" src="{{ ASSET.url }}"></script>
  {% endwebpack %}
```

Inside of the webpack block you will have access to an ASSET variable that has a url, name, and path. The text inside of the block will be repeated once per chunk that is in the bundle.

To use a different webpack config, prefix the name of the bundle with that config name and a colon:

```
{% webpack 'other_config:mybundle' %}
  <script type="text/javascript" src="{{ ASSET.url }}"></script>
  {% endwebpack %}
```

And if you would like to filter the bundle by one or more file extensions, you can pass that in as a second argument (space delimited string).

```
{% webpack 'mybundle', '.js .js.gz' %}
  <script type="text/javascript" src="{{ ASSET.url }}"></script>
  {% endwebpack %}
```

#### 1.3.2 Chameleon

Chameleon templates should just make a call directly to the get\_bundle() method.

```
<script type="text/javascript"
  tal:repeat="asset request.webpack().get_bundle('main')"
  src="${asset.url}">
</script>
```

To use a different webpack config, pass in the name of that config to request.webpack():

```
<script type="text/javascript"
  tal:repeat="asset request.webpack('other_config').get_bundle('main')"
  src="${asset.url}">
</script>
```

And if you would like to filter the bundle by one or more file extensions, you can pass them in as the second argument to get\_bundle():

```
<script type="text/javascript"
  tal:repeat="asset request.webpack().get_bundle('main', ['.js', '.js.gz'])"
  src="${asset.url}">
</script>
```

# 1.4 Changelog

#### 1.4.1 0.1.0 - 2016/10/23

• Initial release

# **API Reference**

# 2.1 pyramid webpack package

#### 2.1.1 Submodules

## pyramid\_webpack.jinja2ext module

```
Jinja2 extension for pyramid_webpack
```

```
class pyramid_webpack.jinja2ext.WebpackExtension (environment)
    Bases: jinja2.ext.Extension
```

Extension for jinja2.

#### **Examples**

```
identifier = 'pyramid_webpack.jinja2ext.WebpackExtension'
```

```
parse (parser)
```

tags = set([u'webpack'])

## 2.1.2 Module contents

```
pyramid_webpack
```

```
class pyramid_webpack.StaticResource(path)
```

Bases: object

Wrapper around a filepath or asset path

classmethod create (path, root\_package)

Create a StaticResource, setting the package if needed

```
open()
          Open a stream object to the resource data
class pyramid_webpack (request, name='DEFAULT')
     Bases: object
     Wrapper object for the public webpack API
     get_bundle (bundle_name, extensions=None)
          Get all the chunks contained in a bundle
     stats
          Load and cache the webpack stats file
class pyramid_webpack.WebpackState (settings,
                                                           root_package_name='pyramid_webpack',
                                          name='DEFAULT')
     Bases: object
     Wrapper for all webpack configuration and cached data
     load_stats (cache=None, wait=None)
          Load and cache the webpack-stats file
pyramid_webpack.get_webpack(request, name='DEFAULT')
     Get the Webpack object for a given webpack config.
     Called at most once per request per config name.
pyramid_webpack.includeme(config)
     Add pyramid_webpack methods and config to the app
```

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