Gist Blog Help

Explore

Merge pull request #1630 from github/even-more-tmscopes aroben authored 4 hours ago **bin** lib samples script Merge branch 'master' into cache-bustin **test** 9 days ago Clone in Desktop vendor/cache Vendored gems 2 days ago **○** Download ZIP .gitattributes Reverting bodbo64 now we have a better way to test these attributes 24 days ago **i** .gitignore Vendored gems 2 days ago travis.yml Merge pull request #1515 from github/vmg/attributes 10 days ago **■** Gemfile Moving Rugged dependency back to gemspec 6 days ago **LICENSE** 10 months ago New year README.md 6 days ago Rakefile Require "bundler/setup" in rakefile 6 days ago github-linguist.gemspec twiddle-wakka 6 days ago

Features Language detection

Linguist

README.md

This repository Search

Linguist defines a list of all languages known to GitHub in a yaml file. In order for a file to be highlighted, a language and a lexer must be defined there. Most languages are detected by their file extension. For disambiguating between files with common

extensions, we first apply some common-sense heuristics to pick out obvious languages. After that,

We use this library at GitHub to detect blob languages, highlight code, ignore binary files, suppress

generated files in diffs, and generate language breakdown graphs.

Linguist::FileBlob.new("lib/linguist.rb").language.name #=> "Ruby"

Lexer abstraction that determines which highlighter should be used on a file.

Linguist::FileBlob.new("bin/linguist").language.name #=> "Ruby"

See lib/linguist/languages.rb and lib/linguist/languages.yml.

passed when initializing Linguist::Repository.

binary will also output the breakdown of files by language.

we use a statistical classifier. This process can help us tell the difference between, for example, .h files which could be either C, C++, or Obj-C.

Syntax Highlighting

API UPDATE

The Language stats bar that you see on every repository is built by aggregating the languages of each

file in that repository. The top language in the graph determines the project's primary language.

Since Version 3.0.0 Linguist expects a git repository (in the form of a Rugged::Repository) to be

The repository stats API, accessed through #languages, can be used on a directory:

The actual syntax highlighting is handled by our Pygments wrapper, pygments.rb. It also provides a

project = Linguist::Repository.new(repo, repo.head.target_id) #=> "Ruby" project.language #=> { "Ruby" => 119387 }

require 'linguist' repo = Rugged::Repository.new('.')

require 'rugged'

project.languages

100.00% Ruby

Stats

You can try running linguist on the root directory in this repository itself: \$ bundle exec linguist --breakdown

These stats are also printed out by the linguist binary. You can use the --breakdown flag, and the

```
Ruby:
Gemfile
Rakefile
bin/linguist
github-linguist.gemspec
lib/linguist.rb
lib/linguist/blob_helper.rb
lib/linguist/classifier.rb
lib/linguist/file_blob.rb
lib/linguist/generated.rb
lib/linguist/heuristics.rb
lib/linguist/language.rb
lib/linguist/lazy_blob.rb
lib/linguist/md5.rb
lib/linguist/repository.rb
lib/linguist/samples.rb
lib/linguist/tokenizer.rb
lib/linguist/version.rb
test/test_blob.rb
test/test_classifier.rb
test/test_heuristics.rb
test/test_language.rb
test/test_md5.rb
test/test_pedantic.rb
test/test_repository.rb
```

Checking other code into your git repo is a common practice. But this often inflates your project's

language stats and may even cause your project to be labeled as another language. We are able to

can be detected and excluded from language stats. As an extra bonus, these files are suppressed in

Generated file detection Not all plain text files are true source files. Generated files like minified js and compiled CoffeeScript

Overrides

\$ cat .gitattributes

\$ linguist --breakdown

100.00% Java

ruby_file.rb

Installation

run Bundler to install its dependencies.

git clone https://github.com/github/linguist.git

RubyGems.org.

Java:

*.rb linguist-language=Java

See Linguist::Generated#generated?.

diffs.

test/test_samples.rb

test/test_tokenizer.rb

Ignore vendored files

identify some of these files and directories and exclude them.

See Linguist::BlobHelper#vendored? and lib/linguist/vendor.yml.

Linguist::FileBlob.new("vendor/plugins/foo.rb").vendored? # => true

Linguist::FileBlob.new("underscore.min.js").generated? # => true

Linguist supports custom overrides for language definitions and vendored paths. Add a .gitattributes file to your project using the keys linguist-language and linguist-vendored with the standard git-style path matchers for the files you want to override.

```
By default, Linguist treats all of the paths defined in lib/linguist/vendor.yml as vendored and therefore
doesn't include them in the language statistics for a repository. Use the linguist-vendored attribute
to vendor or un-vendor paths.
  $ cat .gitattributes
  special-vendored-path/* linguist-vendored
  jquery.js linguist-vendored=false
```

Github.com is usually running the latest version of the github-linguist gem that is released on

But for development you are going to want to checkout out the source. To get it, clone the repo and

To run the tests:

bundle exec rake test

just a YAML configuration file.

Perl:

Testing

type: programming

color: "#0298c3"

ace_mode: perl

extensions:

usage examples in your pull request.

In most cases you shouldn't need to add any new assertions.

called extensions. Take a look at this example for example for Perl:

cd linguist/ bundle install

Contributing

The majority of contributions won't need to touch any Ruby code at all. The master language list is

We try to only add languages once they have some usage on GitHub, so please note in-the-wild

Almost all bug fixes or new language additions should come with some additional code samples. Just

drop them under samples/ in the correct subdirectory and our test suite will automatically test them.

A note on language extensions Linguist has a number of methods available to it for identifying the language of a particular file. The initial lookup is based upon the extension of the file, possible file extensions are defined in an array

- .pl - .PL - .perl - .ph - .plx - .pm - .pod - .psgi interpreters: - perl Any of the extensions defined are valid but the first in this array should be the most popular.

Releasing

Here's our current build status, which is hopefully green: build passing

request and the bot will start cranking away.

If you are the current maintainer of this gem:

Status API Training Shop Blog

Sometimes getting the tests running can be too much work, especially if you don't have much Ruby

experience. It's okay: be lazy and let our build bot Travis run the tests for you. Just open a pull

- 1. Create a branch for the release: git checkout -b cut-release-vxx.xx.xx 2. Make sure your local dependencies are up to date: bundle install 3. Ensure that samples are updated: bundle exec rake samples
- 4. Ensure that tests are green: bundle exec rake test 5. Bump gem version in lib/linguist/version.rb. For example, like this. 6. Make a PR to github/linguist. For example, #1238.
- 7. Build a local gem: bundle exec rake build_gem 8. Testing: i. Bump the Gemfile and Gemfile.lock versions for an app which relies on this gem

ii. Install the new gem locally

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iii. Test behavior locally, branch deploy, whatever needs to happen 9. Merge github/linguist PR 10. Tag and push: git tag vx.xx.xx; git push -- tags

11. Push to rubygems.org -- gem push github-linguist-3.0.0.gem