



Rake Tasks

Rake

- Ruby's build language
 - (as in **Ruby's make?**)
 - No XML - written entirely in Ruby
- Rails uses rake to automate several tasks that have to do with the database as well as running tests (and anything else you can think of)
- To see a list of rake tasks for your app
 - `$rake --tasks`

Rake tasks

```
hazink1-ml1:my_first_app hazink1$ rake --tasks
rake about # List versions of all Rails framew...
rake assets:clean[keep] # Remove old compiled assets
rake assets:clobber # Remove compiled assets
rake assets:environment # Load asset compile environment
rake assets:precompile # Compile all the assets named in c...
rake cache_digests:dependencies # Lookup first-level dependencies f...
rake cache_digests:nested_dependencies # Lookup nested dependencies for TE...
rake db:create # Creates the database from DATABAS...
rake db:drop # Drops the database from DATABASE_...
rake db:fixtures:load # Load fixtures into the current en...
rake db:migrate # Migrate the database (options: VE...
rake db:migrate:status # Display status of migrations
rake db:rollback # Rolls the schema back to the prev...
rake db:schema:cache:clear # Clear a db/schema_cache.dump file
rake db:schema:cache:dump # Create a db/schema_cache.dump file
rake db:schema:dump # Create a db/schema.rb file that i...
rake db:schema:load # Load a schema.rb file into the da...
rake db:seed # Load the seed data from db/seeds.rb
```

Individual rake task

- You can zero-in on an individual rake task and what it does with a `--describe` flag
- `$rake --describe task_name`

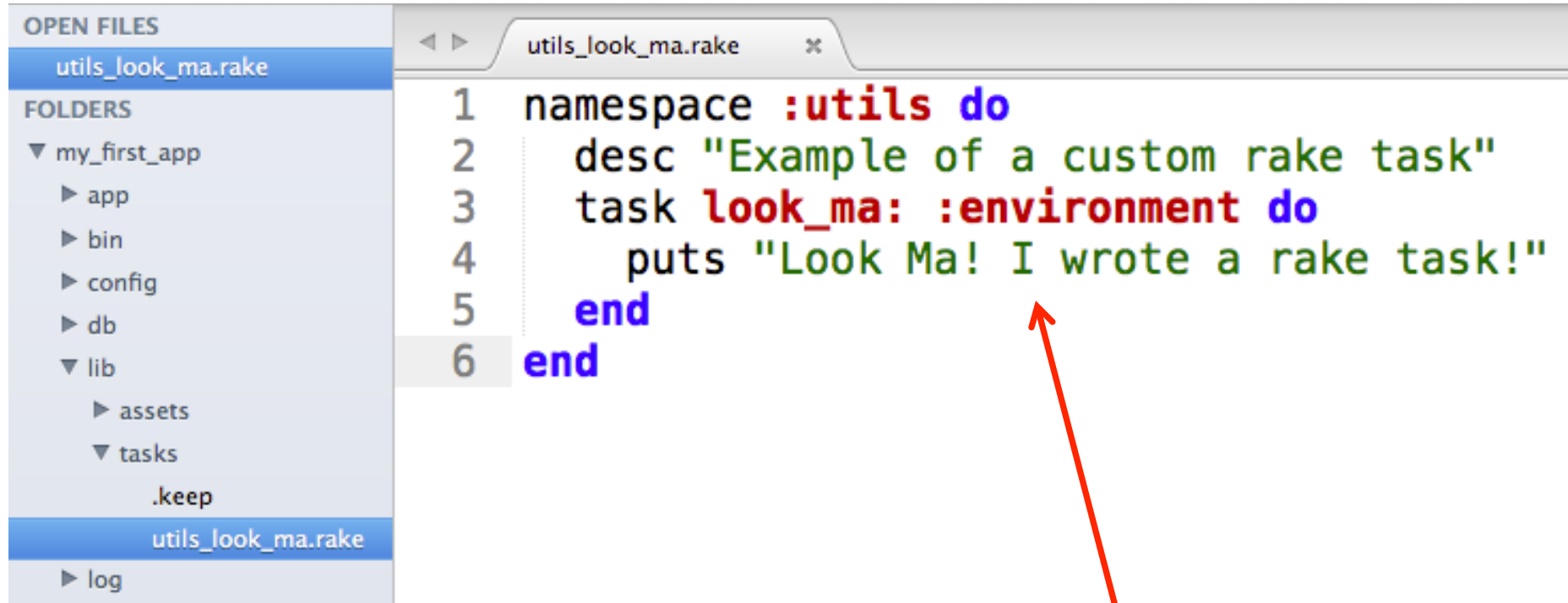
```
hazink1-ml1:my_first_app hazink1$ rake --describe routes  
rake routes
```

```
Print out all defined routes in match order, with names. Target specific controller with CONTROLLER=x.
```

Adding your own rake task

- How can you add your own rake task to a rails app?
- 2 steps:
 1. Write a new ruby file with `.rake` extension
 2. Place it under `lib/tasks` directory of your rails app
- More Info on Rake...
 - <http://rubyrake.org/>
 - <http://devblog.avdi.org/2014/04/21/rake-part-1-basics/>

utils_look_ma.rake



```
1 namespace :utils do
2   desc "Example of a custom rake task"
3   task :look_ma, :environment do
4     puts "Look Ma! I wrote a rake task!"
5   end
6 end
```

Our task is dependent on the :environment task which loads the Rails environment

Custom rake task in action

```
hazink1-ml1:my_first_app hazink1$ rake --describe utils:look_ma  
rake utils:look_ma
```

Example of a custom rake task

```
hazink1-ml1:my_first_app hazink1$ rake utils:look_ma  
Look Ma! I wrote a rake task!
```

```
hazink1-ml1:my_first_app hazink1$ rake --tasks  
rake about # List versions of all Rai...  
rake assets:clean[keep] # Remove old compiled assets  
rake assets:clobber # Remove compiled assets  
rake assets:environment # Load asset compile envir...  
rake assets:precompile # Compile all the assets n...
```

Rake routes

- `$rake routes` explains your currently defined routes

```
hazink1-ml1:my_first_app hazink1$ rake routes
```

	Prefix	Verb	URI Pattern	Controller#Action
	greeter_hello	GET	/greeter/hello(.:format)	greeter#hello
	greeter_goodbye	GET	/greeter/goodbye(.:format)	greeter#goodbye