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## 7-2 上传专案到 Heroku

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### 目的：

上传专案到 Heroku

### 步骤 1：开新 Heroku 应用程式

请确认你的终端机，目前所处目录是first\_app子目录。

然后在终端机打这些字：

```
heroku create
```

“heroku create”会在 Heroku 的系统里面注册新的应用程式。跑完之后你应该会看到输出里面告诉你新的应用程式的 URL。

注意：请不要重复执行“heroku create”这个指令

每输入一次 heroku create 都会生成一个新的 herokuapp，免费帐号预设上限为5个

```
➔ first_app git:(master) heroku create
Creating app... done, ⬢ rugged-death-valley-60572
https://rugged-death-valley-60572.herokuapp.com/ | https://git.heroku.com/rugged-death-valley-60572.git
➔ first_app git:(master)
```

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📁 作业 (/courses/1/assignments) 04%E4%B8%8B%E5%8D%8810.02.42.png)

🔍 FAQ (/courses/1/faqs) 📡 动态 (/courses/1/activities)

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```
remote: Compressing source files... done.
remote: Building source:
remote:
remote: ----> Ruby app detected
remote: ----> Compiling Ruby/Rails
remote: ----> Using Ruby version: ruby-2.2.4
remote: ----> Installing dependencies using bundler 1.11.2
remote:      Running: bundle install --without development:test --path vendor/bundle --binstubs vendor/bundle/bin -j4 --deployment
remote:
remote: Warning: the running version of Bundler is older than the version that created the lockfile. We suggest you upgrade
remote: to the latest version of Bundler by running `gem install bundler`.
remote:      Fetching gem metadata from https://rubygems.org/.....
remote:      Fetching version metadata from https://rubygems.org/...
remote:      Fetching dependency metadata from https://rubygems.org/.
remote:      Installing rake 11.2.2
remote:      Installing concurrent-ruby 1.0.2
remote:      Installing i18n 0.7.0
```

(https://s3-ap-northeast-1.amazonaws.com/ontrackapp-production/xEPRj8NAQEyBhA15Pmek\_%E8%9E%A2%E5%B9%95%E5%BF%AB%E7%85%A7%202016-07-04%20%E4%B8%8B%E5%8D%8810.03.16.png)

提示开发者并没有安装 `sqlite3`。

```
remote: Installing rack-test 0.6.3
remote: Installing nokogiri 1.6.8 with native extensions
remote: Installing sprockets 3.6.3
remote: Installing websocket-driver 0.6.4 with native extensions
remote: Installing mime-types 3.1
remote: Installing uglifier 3.0.0
remote: Installing coffee-script 2.4.1
remote: Installing turbolinks 5.0.0
remote: Installing activesupport 5.0.0
remote: An error occurred while installing sqlite3 (1.3.11), and Bundler cannot
remote: continue.
remote: Make sure that `gem install sqlite3 -v '1.3.11'` succeeds before bundling.
remote: !
remote: ! Failed to install gems via Bundler.
remote: !
remote: ! Detected sqlite3 gem which is not supported on Heroku.
remote: ! https://devcenter.heroku.com/articles/sqlite3
remote: !
remote:
remote: ! Push rejected, failed to compile Ruby app
remote:
remote: Verifying deploy...
remote:
remote: ! Push rejected to rugged-death-valley-60572.
remote:
To https://git.heroku.com/rugged-death-valley-60572.git
! [remote rejected] master -> master (pre-receive hook declined)
error: failed to push some refs to 'https://git.heroku.com/rugged-death-valley-60572.git'
```

(https://s3-ap-

northeast-1.amazonaws.com/ontrackapp-production/YDkppPCsRw2YenUlv7WG\_%E8%9E%A2%E5%B9%95%E5%BF%AB%E7%85%A7%202016-07-04%20%E4%B8%8B%E5%8D%8810.03.43.png)

这时候请不要傻傻的安装 `sqlite3`。

Heroku 的正式环境里面, 资料库其实并不支援 `sqlite3`, 而是有自定义的资料库 `pg`。不过关于这段的解释太专业了, 初入门的朋友可能看不懂, 我们这里只先谈, 如何绕过这个错误讯息。让你的网站可以顺利部署上 Heroku。

## 步骤 2: 修改 Gemfile

请在终端输入: `cd first_app`, 按[enter]

输入: `atom .` 按[enter] 就可以成功开启专案的档案群

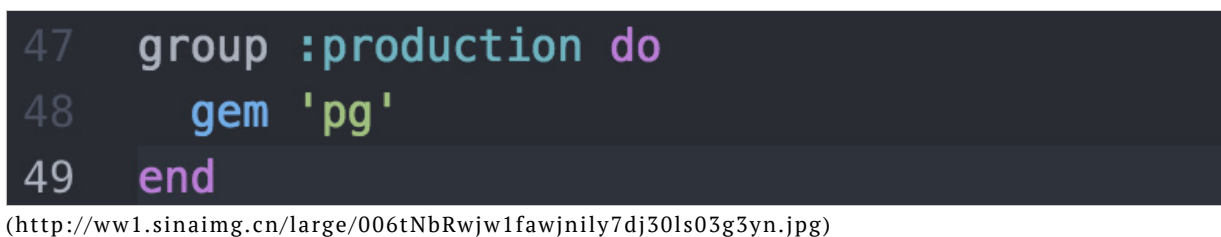
在编辑器里打开 Gemfile 这个档案, 按 `command + x` 将第 7 行的 `gem 'sqlite3'` 剪切



把 sqlite3 粘贴到约第 33 行的这个 `group :development, :test do` 里面。



然后在 47 行新增一个 `production` group, 加上 `pg` 这个 gem



按 `command + s` 存档。

### 步骤 3: 套用 Gemfile 的异动

然后在终端机执行这些指令

- `bundle install`

每当你改 Gemfile 的时候，你都要跑一次 `bundle install`，这样子异动才会被套用。套用之后的异动会被存在另一个档案 Gemfile.lock。

## 步骤 4：把 Gemfile 的异动 commit 进 git

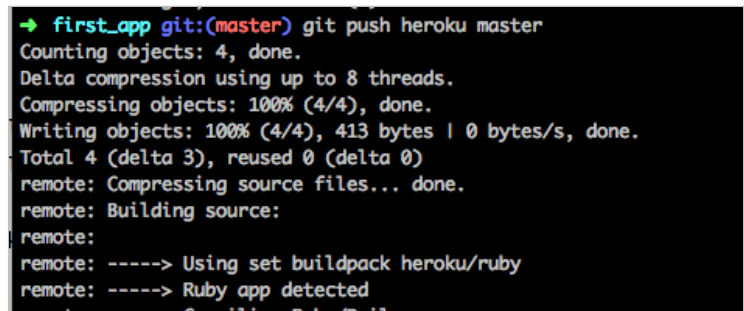
在终端机输入：

- `git add Gemfile`
- `git add Gemfile.lock`
- `git commit -m "move sqlite3 to dev group & add pg to production group"`

## 步骤 5：上传到 Heroku

在终端机输入：

- `git push heroku master`



```
➔ first_app git:(master) git push heroku master
Counting objects: 4, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 413 bytes | 0 bytes/s, done.
Total 4 (delta 3), reused 0 (delta 0)
remote: Compressing source files... done.
remote: Building source:
remote:
remote: -----> Using set buildpack heroku/ruby
remote: -----> Ruby app detected
```

1.amazonaws.com/ontrackapp-production/EATOETRTa229LnO8H8g2\_%E8%9E%A2%E5%B9%95%E5%BF%AB%E7%85%A7%202016-07-04%20%E4%B8%8B%E5%8D%8810.16.11.png)

```
remote: Preparing app for Rails asset pipeline
remote: Running: rake assets:precompile
remote: Asset precompilation completed (1.37s)
remote: Cleaning assets
remote: Running: rake assets:clean
remote: ##### WARNING:
remote: You have not declared a Ruby version in your Gemfile.
remote: To set your Ruby version add this line to your Gemfile:
remote: ruby '2.2.4'
remote: # See https://devcenter.heroku.com/articles/ruby-versions for more information.
remote: ##### WARNING:
remote: No Procfile detected, using the default web server.
remote: We recommend explicitly declaring how to boot your server process via a Procfile.
remote: https://devcenter.heroku.com/articles/ruby-default-web-server
remote:
remote: -----> Discovering process types
remote: Procfile declares types      -> (none)
remote: Default types for buildpack -> console, rake, web, worker
remote:
remote: -----> Compressing...
remote: Done: 27.8M
remote: -----> Launching...
remote: Released v6
remote: https://rugged-death-valley-60572.herokuapp.com/ deployed to Heroku
remote:
remote: Verifying deploy... done.
To https://git.heroku.com/rugged-death-valley-60572.git
   5cb1b6b..f6fe0fd master -> master
-> first_app git:(master) heroku open
```

(https://s3-ap-

northeast-1.amazonaws.com/ontrackapp-

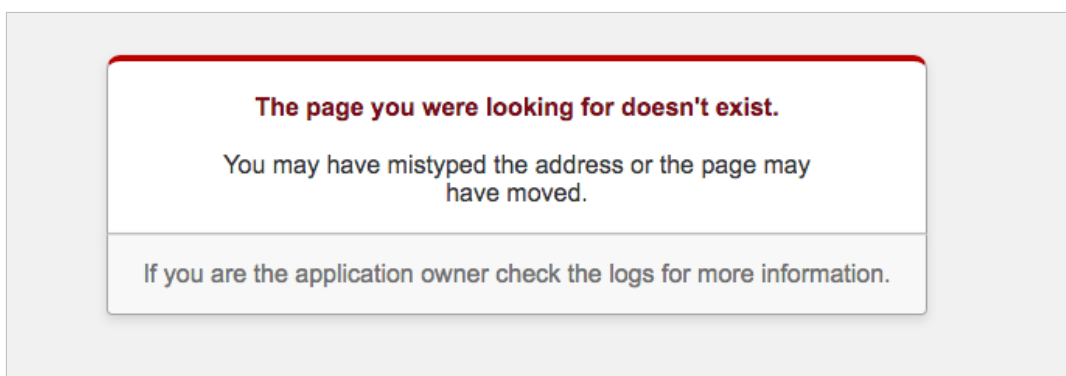
production/mswP8lkSJSCpU9aSoHsb\_%E8%9E%A2%E5%B9%95%E5%BF%AB%E7%85%A7%202016-07-04%20%E4%B8%8B%E5%8D%8810.15.39.png)

小提示：因为heroku为远端连结，需要等待一段时间，如果无法连上，可以尝试换一个VPN再操作。

## 设定根目录

然后我们可以在终端机输入 `heroku open` 打开网站。

不过映入眼帘的却是：



(https://s3-ap-

northeast-1.amazonaws.com/ontrackapp-

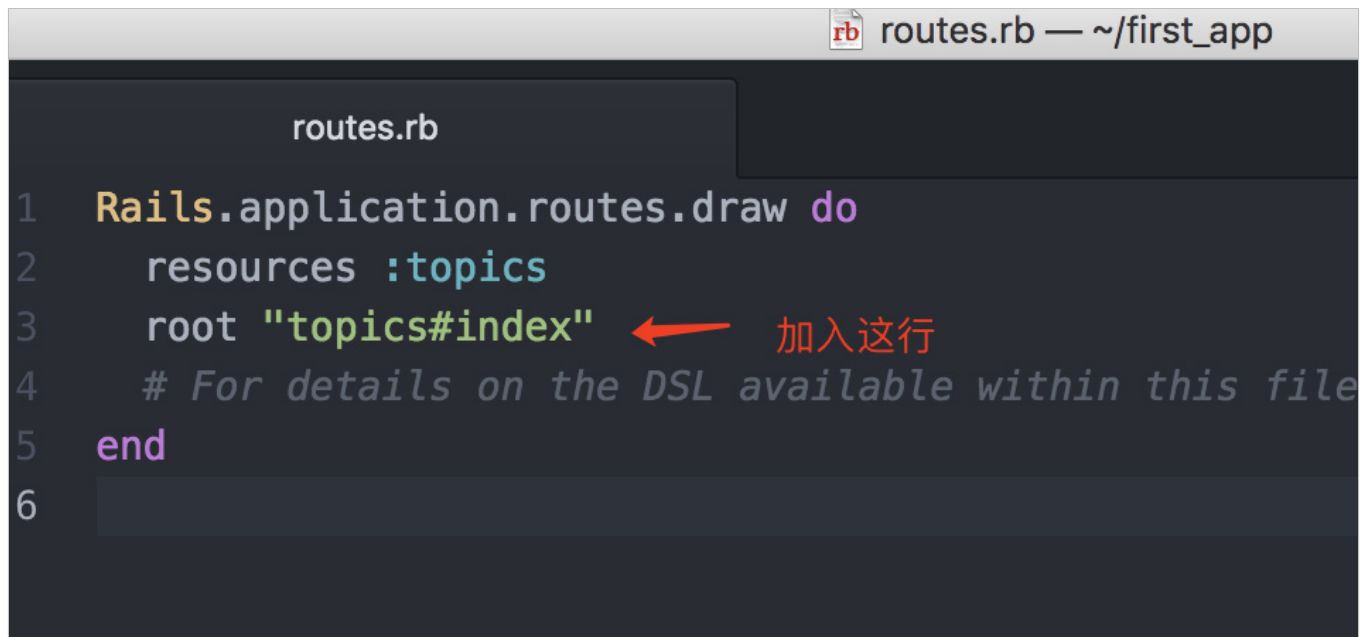
production/BurLRv7PQlafcwsXg1AD\_%E8%9E%A2%E5%B9%95%E5%BF%AB%E7%85%A7%202016-07-04%20%E4%B8%8B%E5%8D%8810.21.07.png)

这是因为我们没有在 `config/routes.rb` 下设定首页。

在first\_app档案夹下，输入 `atom .` 可以用atom开启这个项目的档案，在atom里找到 `config` 资料夹，点开找到 `routes.rb` 档案

在第3行加入:

```
root "topics#index"
```

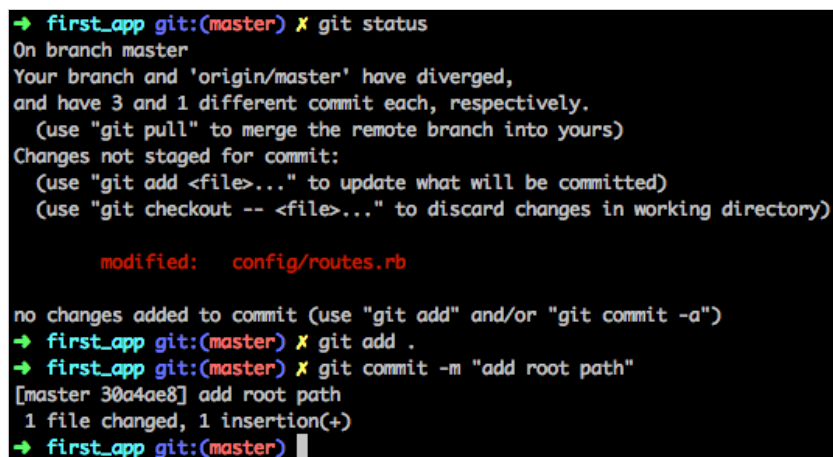


(<http://ww2.sinaimg.cn/large/006tNbRwjw1fawk56gxhoj30qi0cejsx.jpg>)

让首页根目录指到 topics 的 index 一览表。

之后我们一样执行:

- `git add .`
- `git commit -m "add root path"`



([https://s3-ap-northeast-1.amazonaws.com/ontrackapp-production/8rnVj92ySXHEJvGLqFvd\\_%E8%9E%A2%E5%B9%95%E5%BF%AB%E7%85%A7%202016-07-04%20%E4%B8%8B%E5%8D%8810.23.57.png](https://s3-ap-northeast-1.amazonaws.com/ontrackapp-production/8rnVj92ySXHEJvGLqFvd_%E8%9E%A2%E5%B9%95%E5%BF%AB%E7%85%A7%202016-07-04%20%E4%B8%8B%E5%8D%8810.23.57.png))

1.amazonaws.com/ontrackapp-

production/8rnVj92ySXHEJvGLqFvd\_%E8%9E%A2%E5%B9%95%E5%BF%AB%E7%85%A7%202016-07-04%20%E4%B8%8B%E5%8D%8810.23.57.png)

再执行:

```
git push heroku master
heroku open
```

映入眼帘的还是错误讯息, 只是这次变成: We're sorry, but something went wrong.



[https://s3-ap-](https://s3-ap-northeast-1.amazonaws.com/ontrackapp-production/xdpei6BSyaIdlRXl4vqV_%E8%9E%A2%E5%B9%95%E5%BF%AB%E7%85%A7%202016-07-04%20%E4%B8%8B%E5%8D%8810.25.44.png)

**We're sorry, but something went wrong.**

If you are the application owner check the logs for more information.

[https://s3-ap-northeast-1.amazonaws.com/ontrackapp-production/xdpei6BSyaIdlRXl4vqV\\_%E8%9E%A2%E5%B9%95%E5%BF%AB%E7%85%A7%202016-07-04%20%E4%B8%8B%E5%8D%8810.25.44.png](https://s3-ap-northeast-1.amazonaws.com/ontrackapp-production/xdpei6BSyaIdlRXl4vqV_%E8%9E%A2%E5%B9%95%E5%BF%AB%E7%85%A7%202016-07-04%20%E4%B8%8B%E5%8D%8810.25.44.png)

我们可以使用 `heroku logs`，观看 heroku 上的错误：

```
2016-07-04T14:25:41.548080+00:00 app[web.1]: F, [2016-07-04T14:25:41.548009 #3] FATAL -- : [c51e20ee-c255-4eeb-9384-77b5caf9b3a1] /
ctionView::Template::Error (PG::UndefinedTable: ERROR: relation "topics" does not exist
2016-07-04T14:25:41.553025+00:00 app[web.1]: F, [2016-07-04T14:25:41.549716 #3] FATAL -- : [c51e20ee-c255-4eeb-9384-77b5caf9b3a1]
14: <tbody>
2016-07-04T14:25:41.548086+00:00 app[web.1]: LINE 1: SELECT "topics".* FROM "topics"
2016-07-04T14:25:41.553895+00:00 app[web.1]: F, [2016-07-04T14:25:41.553410 #3] FATAL -- : [c51e20ee-c255-4eeb-9384-77b5caf9b3a1]
15: <% @topics.each do |topic| %>
2016-07-04T14:25:41.546904+00:00 app[web.1]: F, [2016-07-04T14:25:41.546789 #3] FATAL -- : [c51e20ee-c255-4eeb-9384-77b5caf9b3a1]
2016-07-04T14:25:41.548088+00:00 app[web.1]: : SELECT "topics".* FROM "topics"):
2016-07-04T14:25:41.549334+00:00 app[web.1]: F, [2016-07-04T14:25:41.549267 #3] FATAL -- : [c51e20ee-c255-4eeb-9384-77b5caf9b3a1]
12: </thead>
2016-07-04T14:25:41.549686+00:00 app[web.1]: F, [2016-07-04T14:25:41.549626 #3] FATAL -- : [c51e20ee-c255-4eeb-9384-77b5caf9b3a1]
13:
2016-07-04T14:25:41.554481+00:00 app[web.1]: F, [2016-07-04T14:25:41.553932 #3] FATAL -- : [c51e20ee-c255-4eeb-9384-77b5caf9b3a1]
16: <tr>
2016-07-04T14:25:41.554777+00:00 app[web.1]: F, [2016-07-04T14:25:41.554718 #3] FATAL -- : [c51e20ee-c255-4eeb-9384-77b5caf9b3a1]
17: <td><%= topic.title %></td>
2016-07-04T14:25:41.555127+00:00 app[web.1]: F, [2016-07-04T14:25:41.555068 #3] FATAL -- : [c51e20ee-c255-4eeb-9384-77b5caf9b3a1]
18: <td><%= topic.description %></td>
2016-07-04T14:25:41.555637+00:00 app[web.1]: F, [2016-07-04T14:25:41.555575 #3] FATAL -- : [c51e20ee-c255-4eeb-9384-77b5caf9b3a1]
```

[https://s3-ap-northeast-1.amazonaws.com/ontrackapp-production/2G6tjC2EQ6GZtsU2kcx9\\_%E8%9E%A2%E5%B9%95%E5%BF%AB%E7%85%A7%202016-07-04%20%E4%B8%8B%E5%8D%8810.26.35.png](https://s3-ap-northeast-1.amazonaws.com/ontrackapp-production/2G6tjC2EQ6GZtsU2kcx9_%E8%9E%A2%E5%B9%95%E5%BF%AB%E7%85%A7%202016-07-04%20%E4%B8%8B%E5%8D%8810.26.35.png)

发现错误的讯息在于 heroku 上面的 topics 资料库栏位，似乎并不存在。

原来我们忘记跑了一个指令叫：`heroku run rake db:migrate`

```

→ first_app git:(master) heroku run rake db:migrate
Running rake db:migrate on rugged-death-valley-60572... up, run.6938
D, [2016-07-04T14:28:10.878120 #3] DEBUG -- : (15.1ms) CREATE TABLE "schema_migrations" ("version" character va
Y)
D, [2016-07-04T14:28:10.900897 #3] DEBUG -- : (11.5ms) CREATE TABLE "ar_internal_metadata" ("key" character va
, "value" character varying, "created_at" timestamp NOT NULL, "updated_at" timestamp NOT NULL)
D, [2016-07-04T14:28:10.906618 #3] DEBUG -- : (1.3ms) SELECT pg_try_advisory_lock(4870828250793766380);
D, [2016-07-04T14:28:10.925799 #3] DEBUG -- : ActiveRecord::SchemaMigration Load (2.0ms) SELECT "schema_migrati
ma_migrations"
I, [2016-07-04T14:28:10.946982 #3] INFO -- : Migrating to CreateTopics (20160704140707)
D, [2016-07-04T14:28:10.956323 #3] DEBUG -- : (1.2ms) BEGIN
== 20160704140707 CreateTopics: migrating =====
-- create_table(:topics)
D, [2016-07-04T14:28:10.967072 #3] DEBUG -- : (8.8ms) CREATE TABLE "topics" ("id" serial primary key, "title"
, "description" text, "created_at" timestamp NOT NULL, "updated_at" timestamp NOT NULL)
-> 0.0127s
== 20160704140707 CreateTopics: migrated (0.0128s) =====

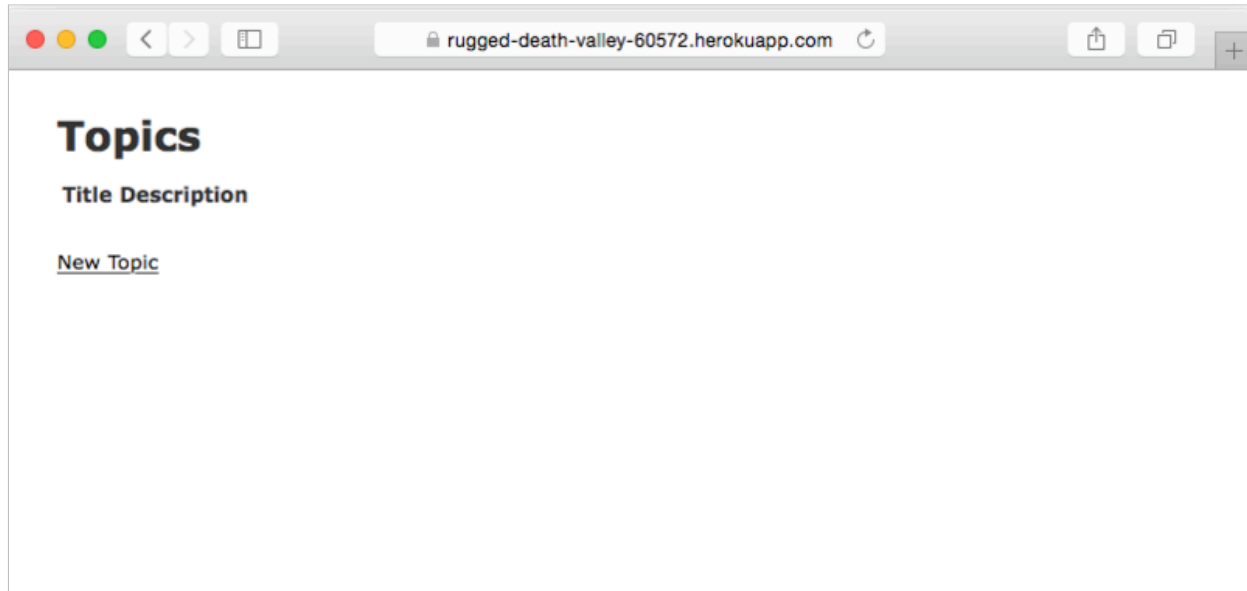
D, [2016-07-04T14:28:10.980888 #3] DEBUG -- : SQL (4.4ms) INSERT INTO "schema_migrations" ("version") VALUES ($
sion" [["version", "20160704140707"]]
D, [2016-07-04T14:28:10.984328 #3] DEBUG -- : (3.1ms) COMMIT
D, [2016-07-04T14:28:11.004725 #3] DEBUG -- : ActiveRecord::InternalMetadata Load (5.8ms) SELECT "ar_internal_
"ar_internal_metadata" WHERE "ar_internal_metadata"."key" = $1 LIMIT $2 [["key", :environment], ["LIMIT", 1]]
D, [2016-07-04T14:28:11.019474 #3] DEBUG -- : (1.1ms) BEGIN
D, [2016-07-04T14:28:11.022566 #3] DEBUG -- : SQL (1.3ms) INSERT INTO "ar_internal_metadata" ("key", "value", "
ated_at") VALUES ($1, $2, $3, $4) RETURNING "key" [["key", "environment"], ["value", "production"], ["created_at"
8:11 UTC], ["updated_at", 2016-07-04 14:28:11 UTC]]
D, [2016-07-04T14:28:11.025300 #3] DEBUG -- : (2.3ms) COMMIT
D, [2016-07-04T14:28:11.035714 #3] DEBUG -- : (5.8ms) SELECT pg_advisory_unlock(4870828250793766380)

```

([https://s3-ap-northeast-1.amazonaws.com/ontrackapp-](https://s3-ap-northeast-1.amazonaws.com/ontrackapp-production/3BVH5ssjSqSDXpjOiind_%E8%9E%A2%E5%B9%95%E5%BF%AB%E7%85%A7%202016-07-04%20%E4%B8%8B%E5%8D%8810.28.17.png)

[production/3BVH5ssjSqSDXpjOiind\\_%E8%9E%A2%E5%B9%95%E5%BF%AB%E7%85%A7%202016-07-04%20%E4%B8%8B%E5%8D%8810.28.17.png](https://s3-ap-northeast-1.amazonaws.com/ontrackapp-production/3BVH5ssjSqSDXpjOiind_%E8%9E%A2%E5%B9%95%E5%BF%AB%E7%85%A7%202016-07-04%20%E4%B8%8B%E5%8D%8810.28.17.png))

跑完再 `heroku open`，看到这个画面，就表示一切顺利运行了。恭喜你，你有了第一个可以在公开空间上运行的论坛 App！



([https://s3-ap-northeast-1.amazonaws.com/ontrackapp-](https://s3-ap-northeast-1.amazonaws.com/ontrackapp-production/VewIrPxR1algwgtaktP1_%E8%9E%A2%E5%B9%95%E5%BF%AB%E7%85%A7%202016-07-04%20%E4%B8%8B%E5%8D%8810.30.51.png)

[production/VewIrPxR1algwgtaktP1\\_%E8%9E%A2%E5%B9%95%E5%BF%AB%E7%85%A7%202016-07-04%20%E4%B8%8B%E5%8D%8810.30.51.png](https://s3-ap-northeast-1.amazonaws.com/ontrackapp-production/VewIrPxR1algwgtaktP1_%E8%9E%A2%E5%B9%95%E5%BF%AB%E7%85%A7%202016-07-04%20%E4%B8%8B%E5%8D%8810.30.51.png))

提示：假如你在5-3的章节中新增了一条（或者很多条）topic，但是你却看到 heroku 上的这个 app 里面的数据是空的，这是正常情况，因为我们部署到 heroku 的时候这些数据并不会被上传。



## deploy 新版程式的方法

---

### 步骤 1：把所有异动都 commit 进 git

---

Heroku 只受理我们有 commit 进本地 git repo 的程式，所以要确定修改过的档案都有 commit 进去了。

在终端机打这些字：

```
git status
```

git status 显示你还没 commit 进 git 的异动。如果没有输出任何东西的话，那你可以 deploy 了！不然的话就要 commit 程式码进去：

在终端机打这些字：

```
git add .
```

```
git commit -m "Some helpful message for your future self"
```

git commit -m 称为 Commit message 内容要写的是："简要描述你这次操作修改了什么/做了什么事"

### 步骤 2：把异动 push（上传）到 Heroku

---

在终端机打这些字：

```
git push heroku master
```

这样子会把本地所有已经 commit 进去的异动都 push 到 Heroku。

### 步骤 3：在 Heroku 跑资料库的 migration

---

在终端机打这些字：

```
heroku run rake db:migrate
```

这是叫 Heroku 在它的资料库跑 migration，作用就像我们在本地跑 `rake db:migrate`。

Heroku 的资料库跟你电脑上的资料库是分开的，也就是说每一次你更改了资料库的结构，你都要在 Heroku 的资料库更新一次。这也就是说在 Heroku 上面你不会看到你电脑上的 sqlite3 资料库里面的资料。

### 步骤 4：上网看你的程式

---

在终端机打这些字：

```
heroku open
```

会在浏览器打开你上传到 Heroku 的程式。

对本页内容的感受如何?

📢 我要吐槽

😄 So easy

😐 还OK

😭 崩溃了

← 上一页 (/posts/25)

💡 可以使用 ← → 键进行翻页

完成本课 (/dashboard)

## 📖 本节作业

Rails 环境建置作业 (/assignments/1): 将作品上传到 Heroku (/tasks/17)

修改作业 (/tasks/17)

看看同学

(/tasks/17/other\_answers?  
order=recent)

请将你的 Heroku 作品网址贴在这里

https://floating-fjord-76944.herokuapp.com

## 💡 本节常见问题

已经在网站删掉heroku, push 完为什么还是错的那个?

首先我们把抓错的这个给拔了:

```
git remote rm heroku
```

接着:

```
git remote -v
```

接下来:

```
git remote add heroku https://git.heroku.com/XXXXX.git  
(XXXXX请换成你的heroku名称, 并且注意包含完整网址)
```

最后:

```
git push heroku master
```

就可以了

## 不小心让 Heroku 生成5个, 满了怎么办?

可以登入网站中删除:

(<https://dashboard.heroku.com/apps/>)<https://dashboard.heroku.com/apps/>

(<https://dashboard.heroku.com/apps/>)

登入后, 点击你要删除的那一个, 点击 Settings

将页面滚动到最下方, 会看到红色的 Delete app...

输入这只app的名称 (就在提示上面, 可以照着打),

点击 Delete app 即可

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