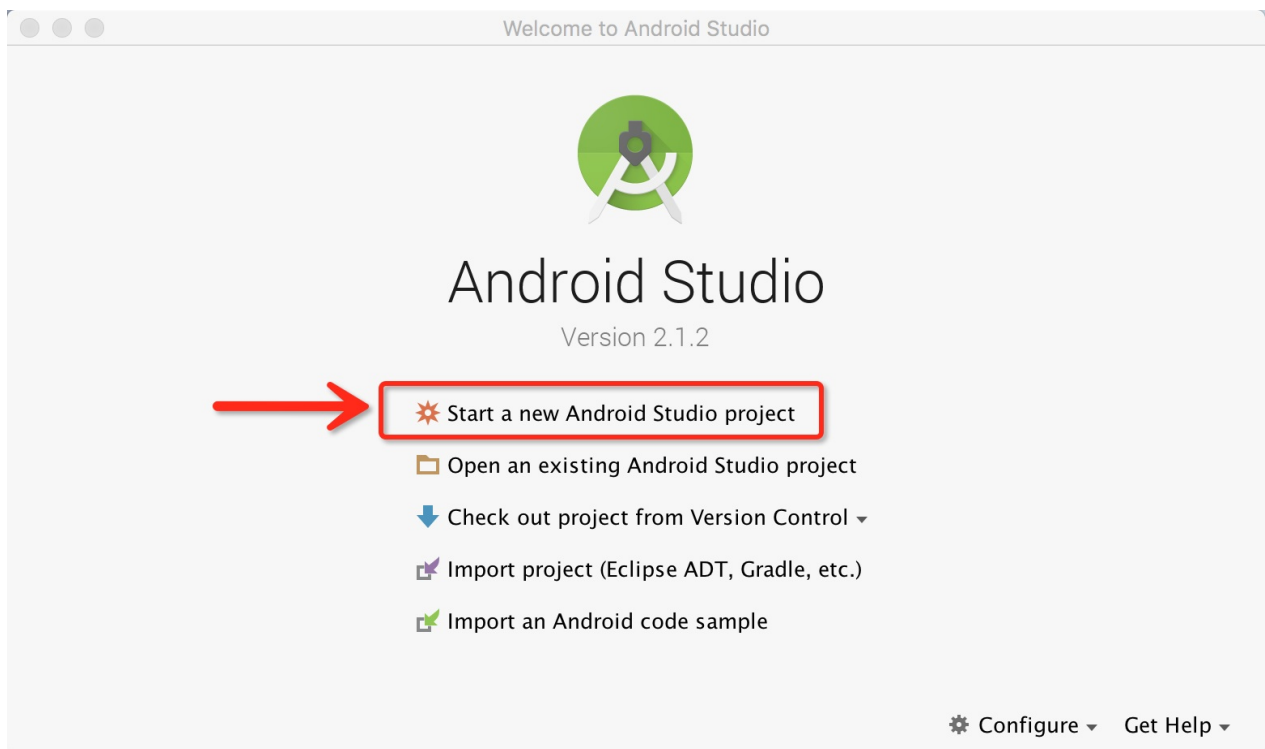


初始化工程

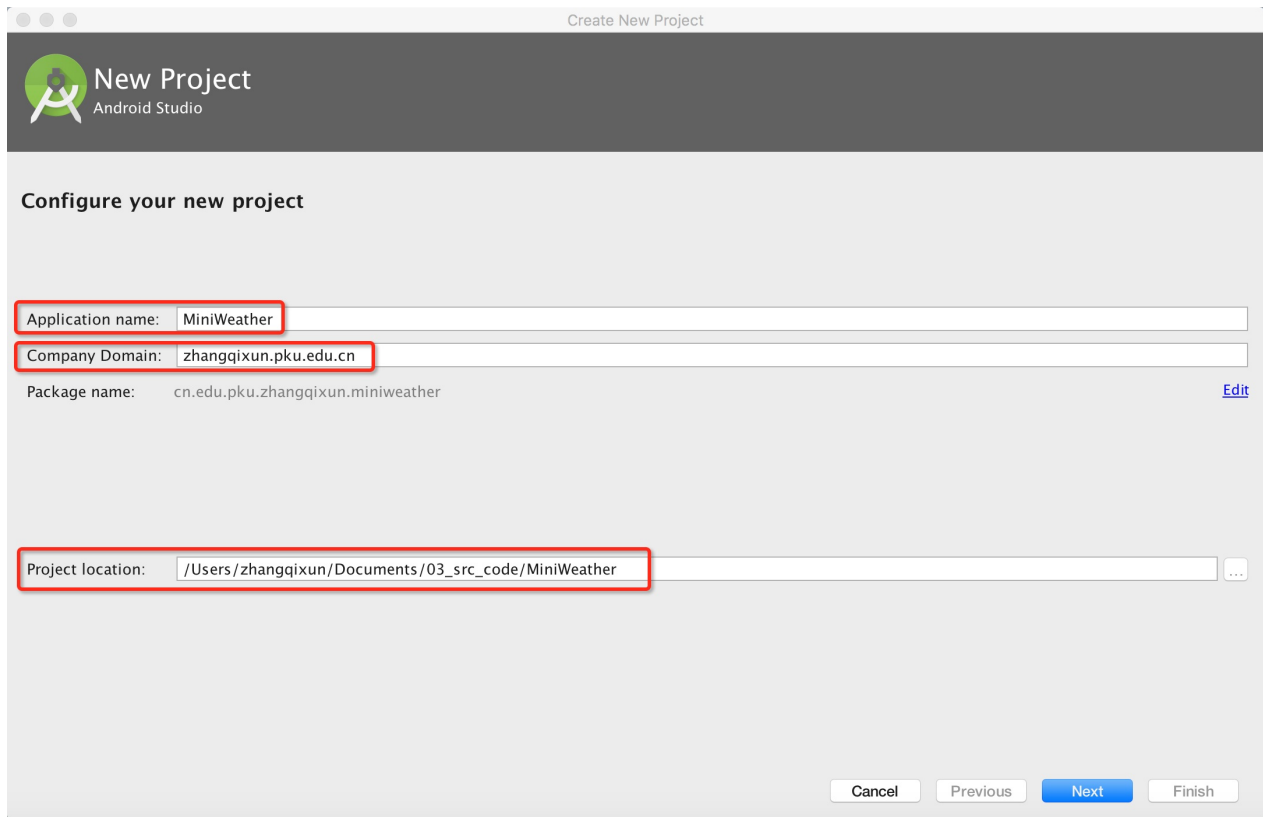


主要步骤

1.打开 **Android Studio** 开发环境，如下图所示，选择“**Start a new Android Studio project**”。

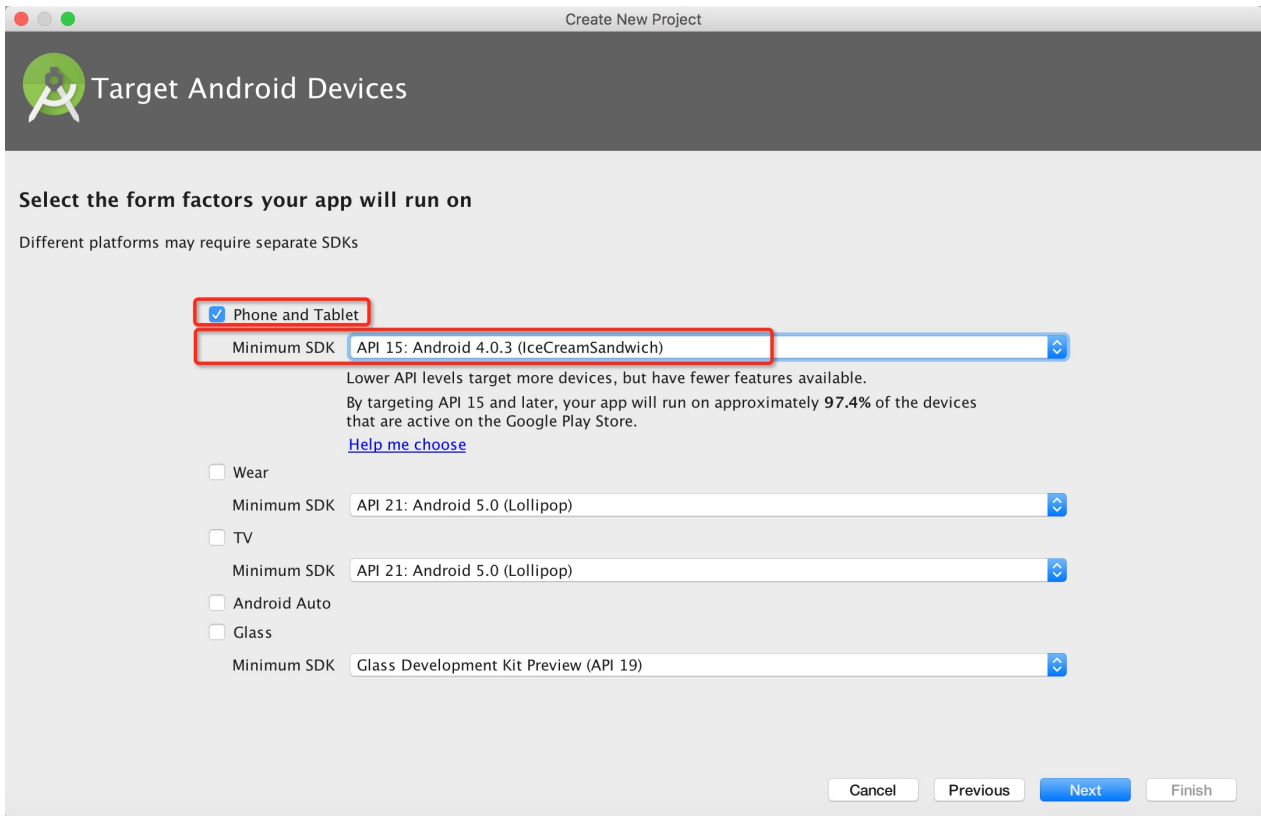


2.在下图界面中，输入“**Application Name**”，“**Company Domain**”以及“**Project Location**”信息。然后单击“**Next**”按钮。

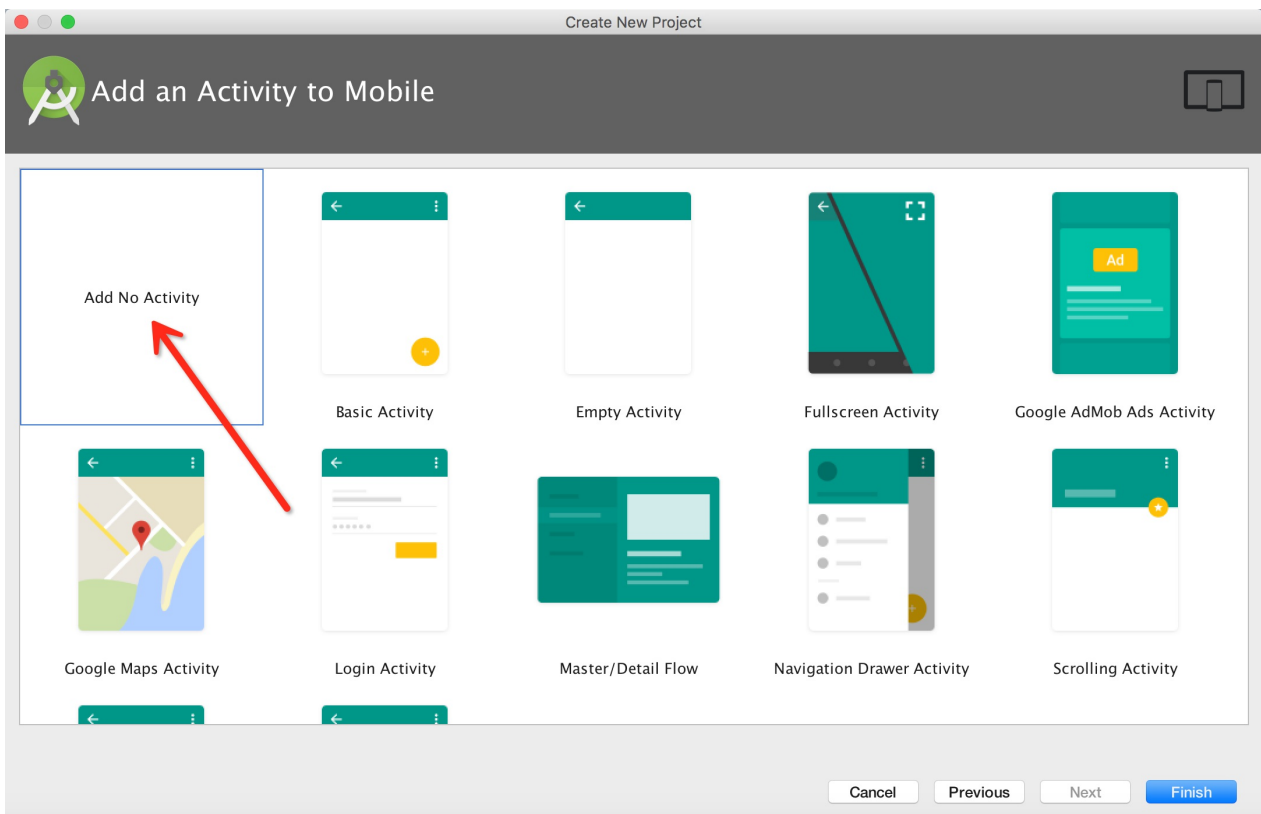


3.在下图的界面中，直接点击“**Next**”

1. 初始化工程

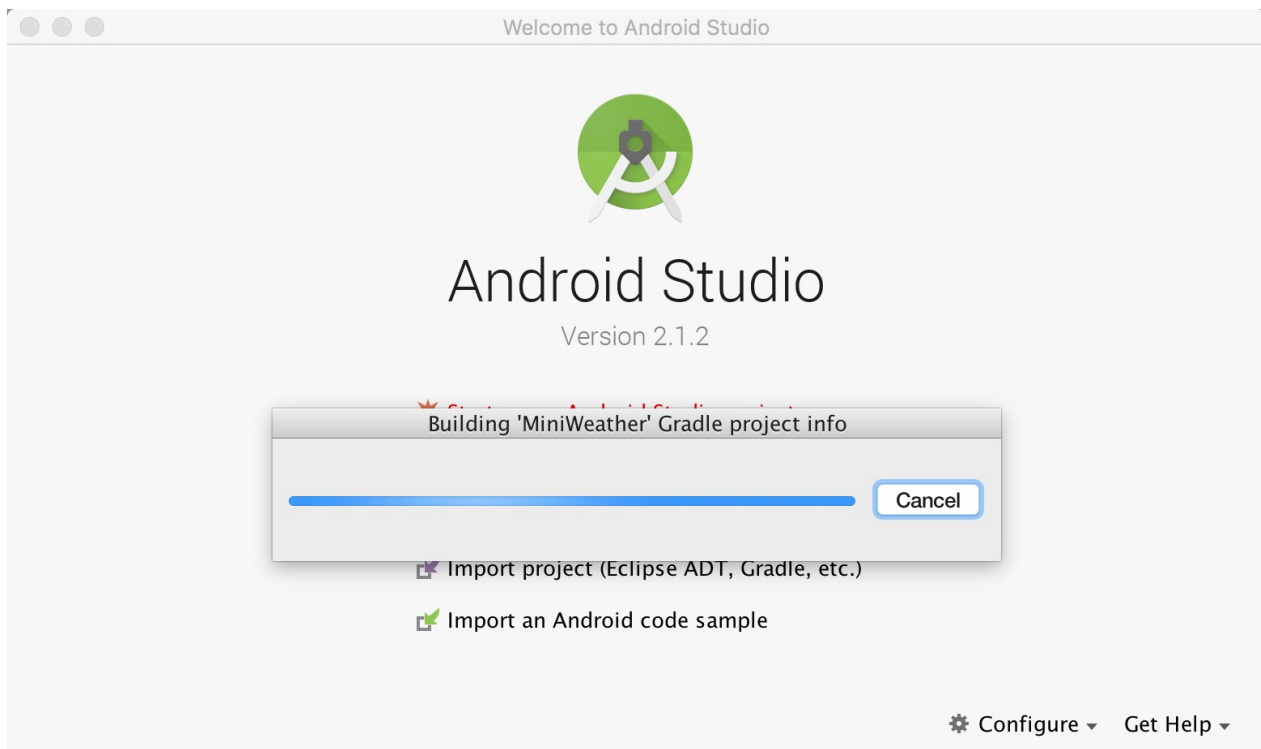


4. 在下图中，选择“Add No Activity”，单击“Finish”。

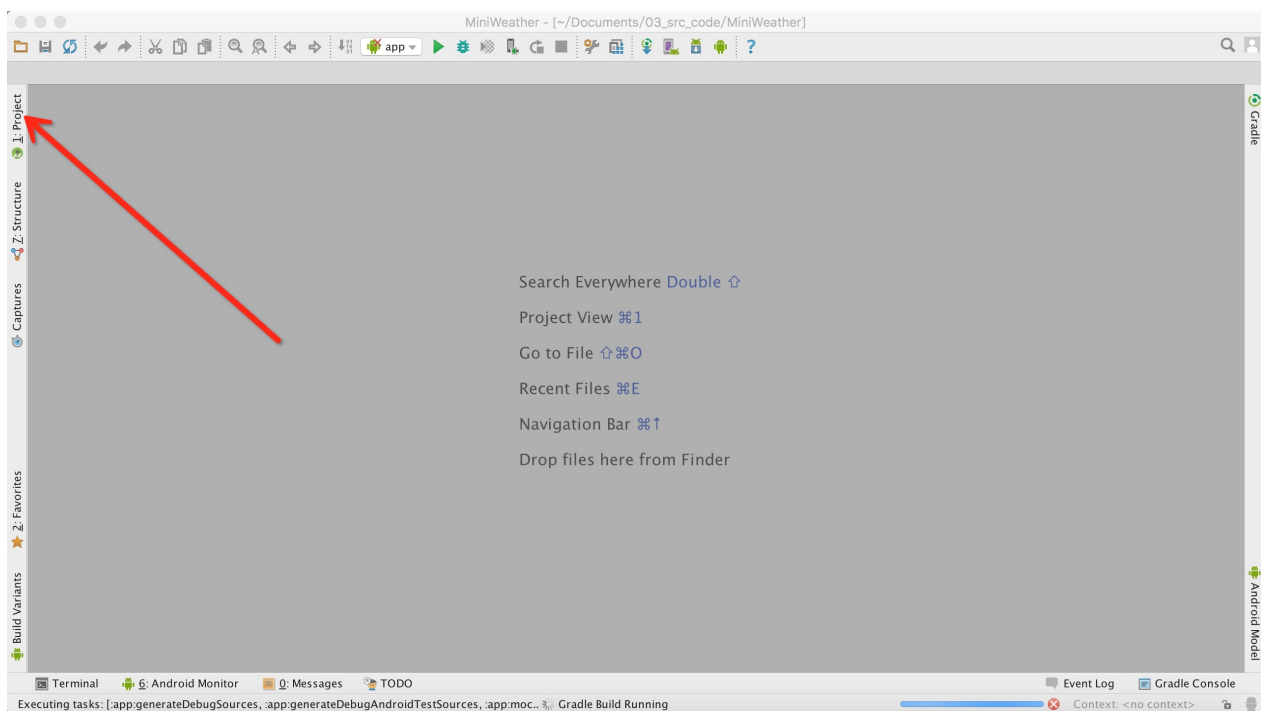


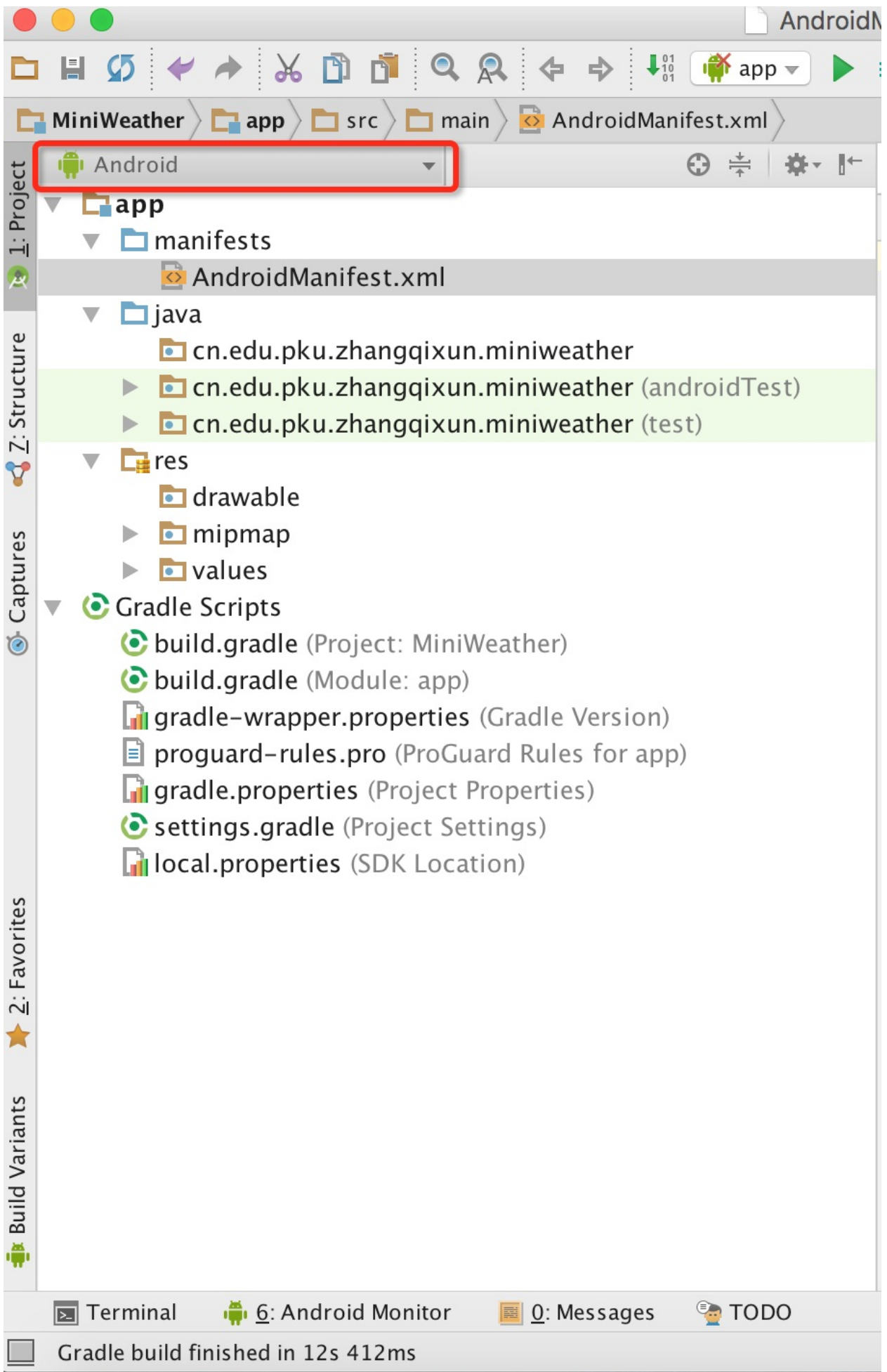
5. 完成项目的创建工作，如下图所示。

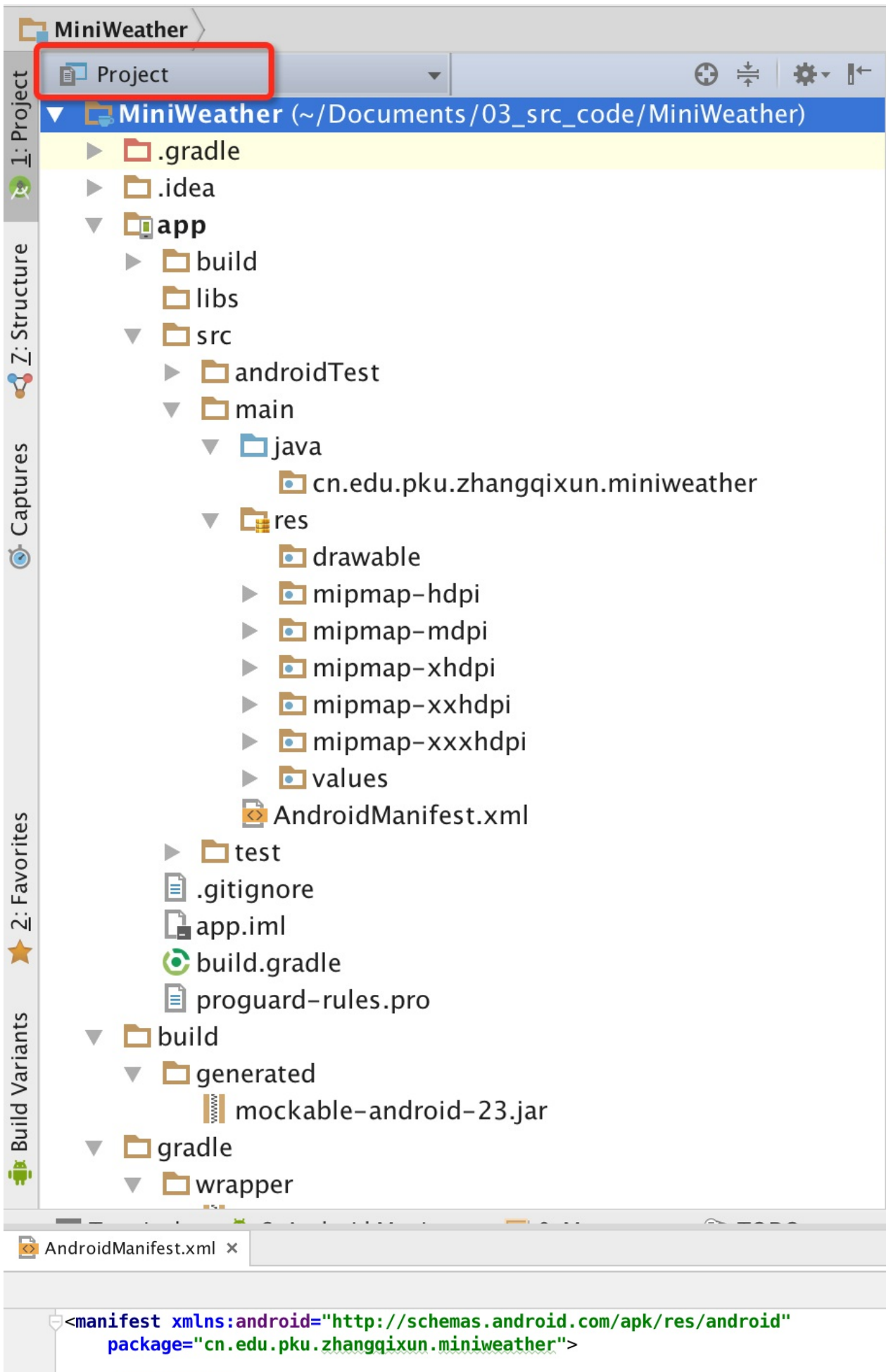
1. 初始化工程



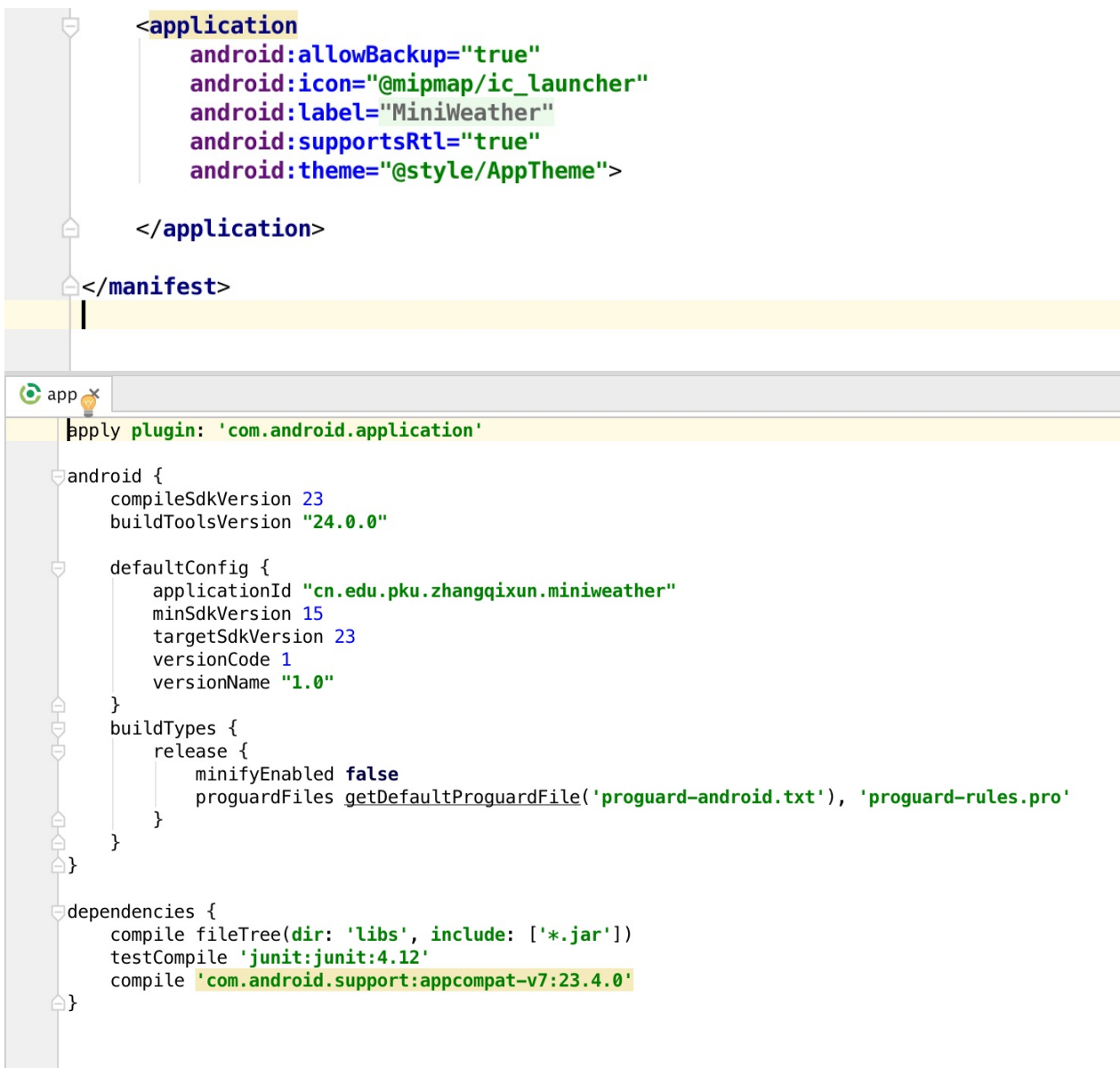
6. 可以浏览一个新的项目所包含的内容。







```
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="cn.edu.pku.zhangqixun.miniweather">
```



7. 注册github账号，在Github创建一个仓库（详细步骤略）

Create a new repository

A repository contains all the files for your project, including the revision history.

Owner

zhangqixun

Repository name

mini-weather-zqx

Great repository names are short and memorable. Need inspiration? How about **turbo-succotash**.

Description (optional)

天气预报教学案例



Public

Anyone can see this repository. You choose who can commit.



Private

You choose who can see and commit to this repository.



Initialize this repository with a README

This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

Add .gitignore: None

Add a license: None



Create repository

创建成功后，如下图。

zhangqixun / mini-weather-zqx

Unwatch 1 Star 0 Fork 0

<> Code Issues 0 Pull requests 0 Wiki Pulse Graphs Settings

Quick setup — if you've done this kind of thing before

Set up in Desktop or HTTPS SSH git@github.com:zhangqixun/mini-weather-zqx.git

We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

...or create a new repository on the command line

echo "# mini-weather-zqx" >> README.md
git init
git add README.md
git commit -m "first commit"
git remote add origin git@github.com:zhangqixun/mini-weather-zqx.git
git push -u origin master

...or push an existing repository from the command line

git remote add origin git@github.com:zhangqixun/mini-weather-zqx.git
git push -u origin master

...or import code from another repository

You can initialize this repository with code from a Subversion, Mercurial, or TFS project.

Import code

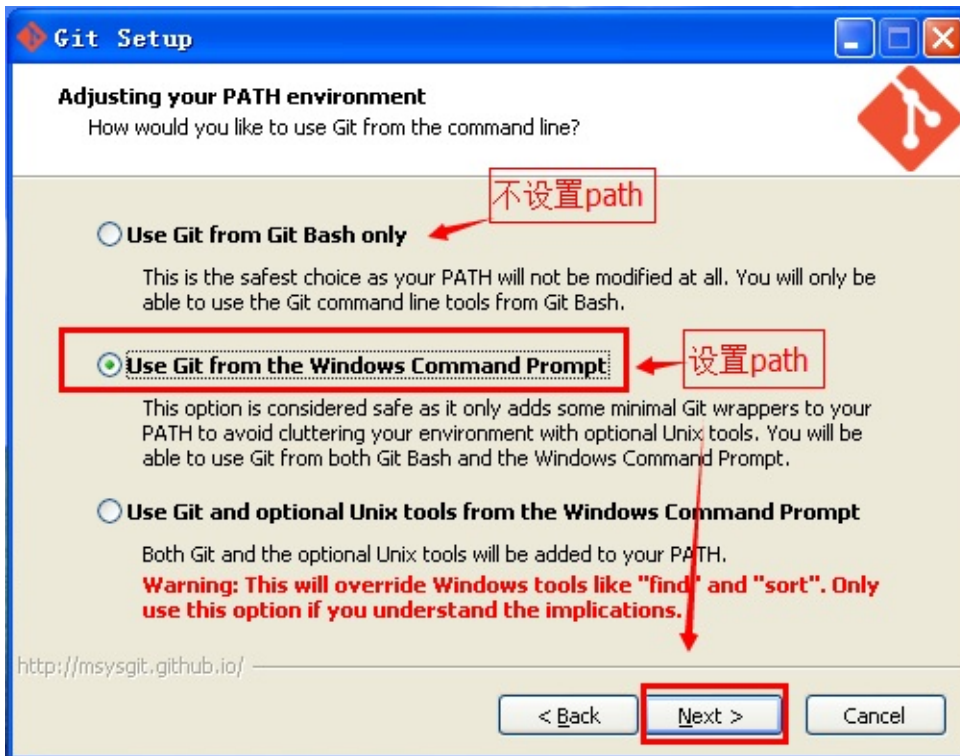
8. 安装git客户端（Windows平台）

8.1 下载并安装git安装包

官方网站<http://git-scm.com/>。找到Windows版本的下载页面: <http://git-scm.com/download/win>

或在国内相关下载中心下载。

安装过程中只有以下这个界面选择第二个选项，其他的缺省即可。一路下一步。



安装完成后，在CMD中输入 git 或者 git --version 检查时候安装成功。

8.2 配置commit的昵称与Email以及push.default 设置本地机器默认commit的昵称与Email. 请使用有意义的名字与email。并配置 push.default

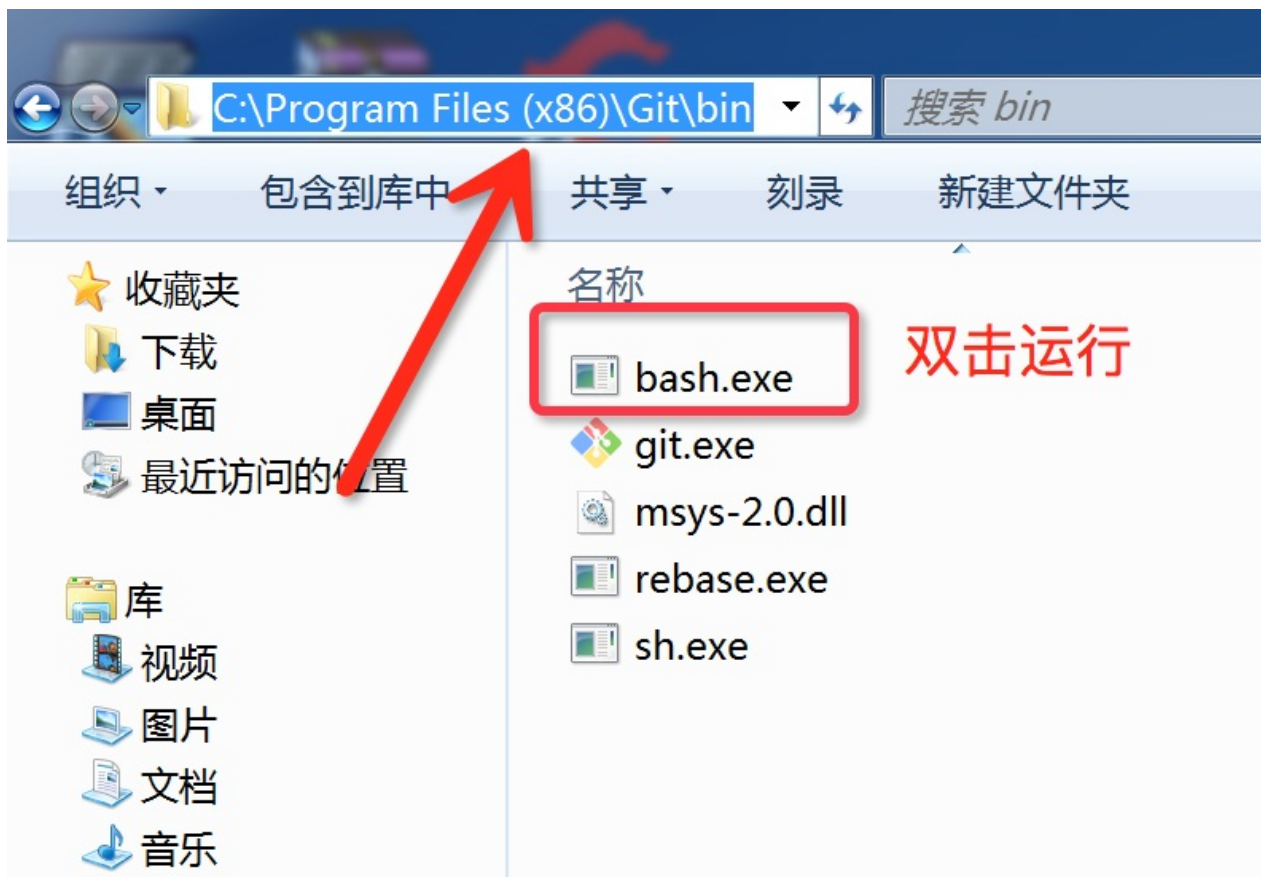
```
git config --global user.name "zhangsan"
git config --global user.email "100000001@qq.com"
git config --global push.default simple
```

查看git配置可以使用 -l 参数

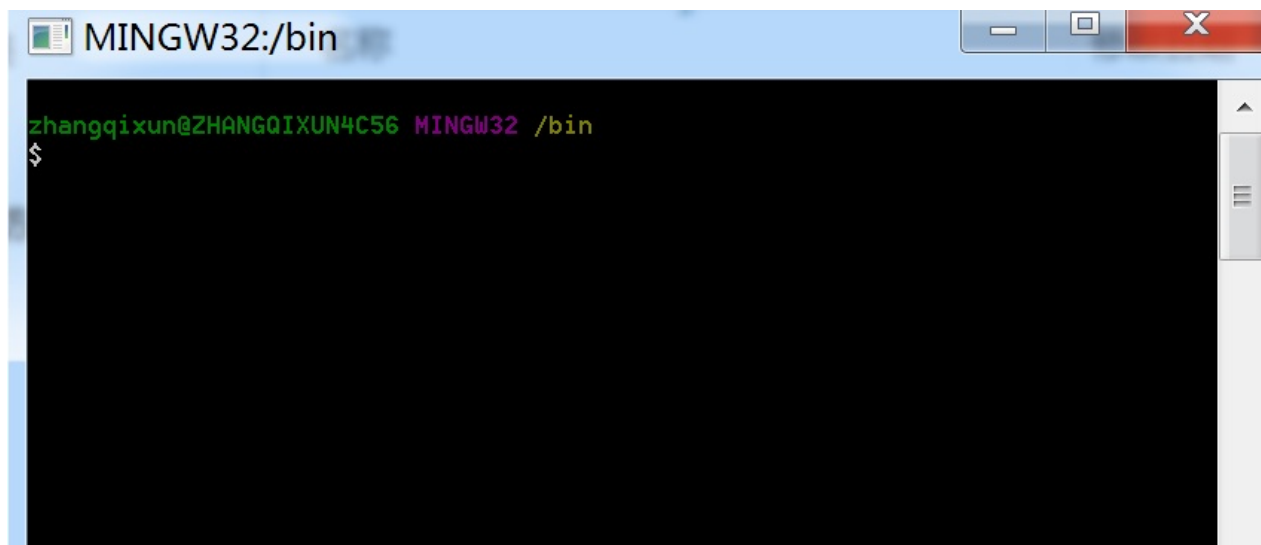
```
git config -l
```

8.3 生成ssh公钥 从程序的安装目录中直接打开 "Bash"

1. 初始化工程



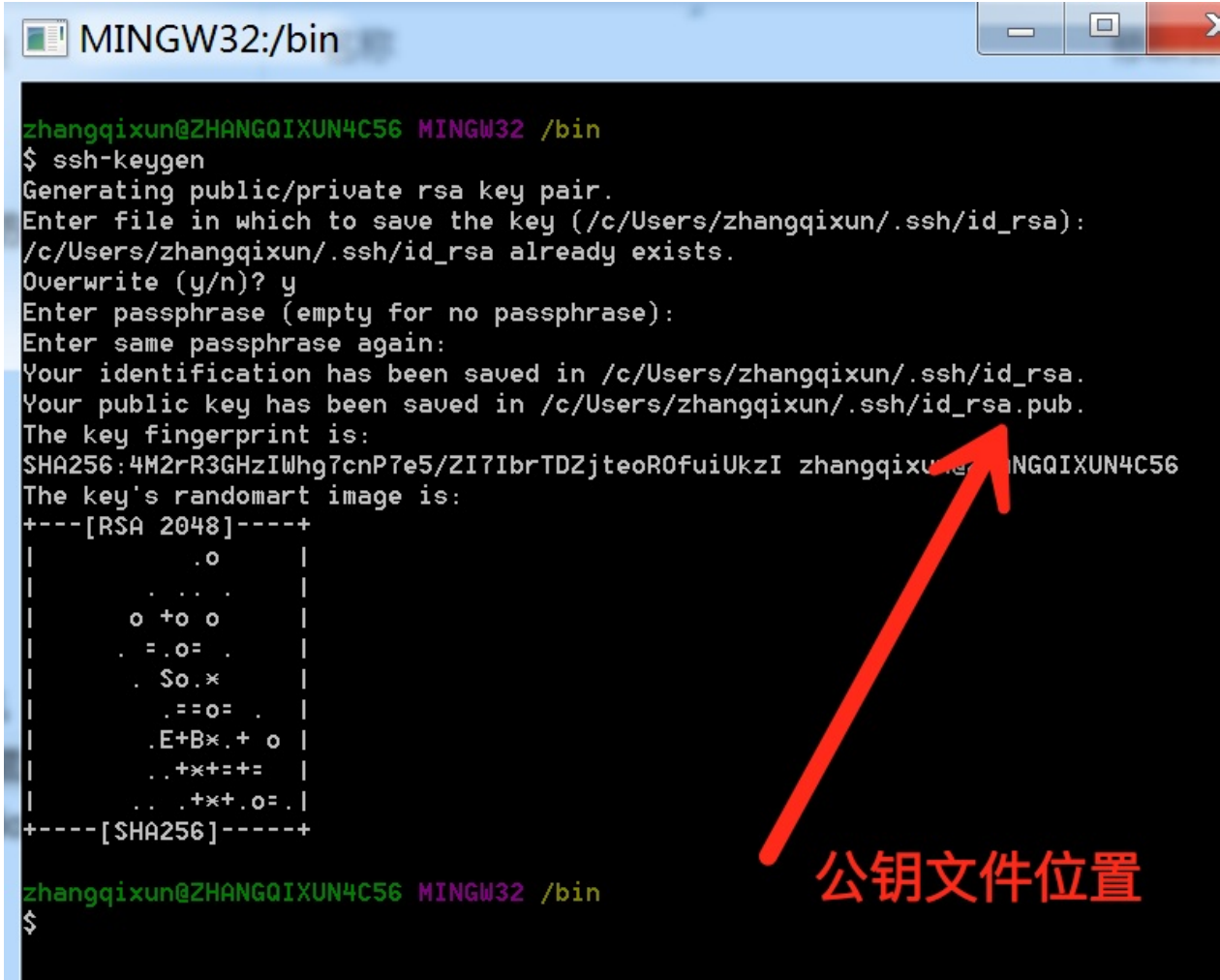
运行效果如下：



输入命令：

```
ssh-keygen
```

然后一路回车。既可以在用户目录下的“.ssh”目录下生成一个id_rsa.pub文件。



```

MINGW32:/bin

zhangqixun@ZHANGQIXUN4C56 MINGW32 /bin
$ ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/c/Users/zhangqixun/.ssh/id_rsa):
/c/Users/zhangqixun/.ssh/id_rsa already exists.
Overwrite (y/n)? y
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /c/Users/zhangqixun/.ssh/id_rsa.
Your public key has been saved in /c/Users/zhangqixun/.ssh/id_rsa.pub.
The key fingerprint is:
SHA256:4M2rR3GHZlWhg7cnP7e5/ZI7IbrTDZjteOR0fuiUkzI zhangqixun@ZHANGQIXUN4C56
The key's randomart image is:
+---[RSA 2048]-----+
|          .o        |
|         . . . .    |
|        o +o o      |
|       . =.o= .     |
|      . So.*        |
|     . ==o= .      |
|    . E+B*.+ o    |
|   . .+*+.+=     |
|  . . .+*+.o= .  |
+-----[SHA256]-----+

zhangqixun@ZHANGQIXUN4C56 MINGW32 /bin
$
  
```

公钥文件位置

用记事本打开此文件，将里面的所有内容复制出来。例如，我的机器的公钥信息如下：

```
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQDfEuKfSf+1zHpfpMLES9ldPd2a
08JslFF+PKE/uyT8Z/l1IKfadBS7c6fjJbJJCtfIsHz9WwL+ZrmqxbL0GTUeVkyb
Fw6qRAUeZW2880si0FuHP4Ff0eZTcDEQKnrx/zuakLYC+JKG8JsafUBE/3QgsAE
0si079/ZQcmTrgz66ZiKi/ki80y5mc8evZR/3WSNK0eH4xneRW0tU9Upxxrbc1v/
8JkHgJ548VrZKZWYANoTdP/h3HjmSerpjd0KqJzS97RA0Bev6hIELQ9aQn06uagh
Ihj3E36Q6JWANXsEcPYXy4/hbzLH4n4l235D9BDDq+ZVf zhann@ZHANGQIN4C56
```

8.4 将ssh key添加到Github中

The screenshot illustrates the steps to add an SSH key to a GitHub account. It is divided into two main sections: the GitHub homepage and the user settings page.

GitHub Homepage:

- URL: <https://github.com>
- Navigation: Pull requests, Issues, Gist
- Header: Signed in as zhangqixun
- Dropdown Menu (Arrow 2 points to 'Settings'):
 - Signed in as zhangqixun
 - Your profile
 - Your stars
 - Explore
 - Integrations
 - Help
 - Settings**
 - Sign out

GitHub Settings Page:

- URL: <https://github.com/settings/keys>
- Navigation: Pull requests, Issues, Gist
- Sidebar (Arrow 1 points to 'SSH and GPG keys'):
 - Personal settings
 - Profile
 - Account
 - Emails
 - Notifications
 - Billing
 - SSH and GPG keys**
 - Security
 - OAuth applications
 - Personal access tokens
 - Repositories
 - Organizations
 - Saved replies
- Main Content Area:
 - SSH keys** (New SSH key button)
 - This is a list of SSH keys associated with your account. Remove any keys that you do not recognize.
 - Key 1: Zhangqixun@Mac-pro, Fingerprint: 18:f1:a0:e5:0a:9c:bc:8e:4a:7a:b8:6e:cb:b1:7d:19, Added on 3 Jul 2016 — Last used within the last day, Delete button.
 - Key 2: 1111, Fingerprint: 04:75:af:83:a0:06:16:3c:d2:aa:c6:b1:a4:ef:bd:f1, Added on 8 Jul 2016 — Last used within the last 2 days, Delete button.
 - Key 3: win7, Fingerprint: 1e:15:c0:db:d4:ab:f1:b4:ed:ed:5a:b2:52:48:88:59, Added on 9 Jul 2016 — Last used within the last day, Delete button.
 - Help: Check out our guide to [generating SSH keys](#) or troubleshoot [common SSH Problems](#).
 - GPG keys** (New GPG key button)
 - There are no GPG keys with access to your account.
 - Help: Learn how to [generate a GPG key and add it to your account](#).

1. 初始化工程

Title

My Mac

Key

AAAAB3NzaC1yc2EAAAADAQABAAQDfSGLuKfSf+1zHpdPd2asIFF+PkE/uyT8Z/l1KfadBS7c6fiJbJJCtflsHz9WwL+ZrmqxbL0GTUeVkybFw6uGfUeZW2880si0FuHP4Ff0eZTcDEQKnrx/zuak1uLYJKG8JsafUBe/3QgsAEOsiQ79/ZQcmTrz66ZiKi/ki80y5mc87GevZR/3WSNK0eH4xneRWOtU9Ubc1v/8JkHqizby548VrZKZWYANoTdP/h3HimSerpj0KqJzS97RAOBv6hlELQ9aQn068vuaghIh3E36Q6JsEcPYXy4/hbzLH4n4l235D9BDDq+ZVfzhangqixun@ZHANGQIXUN4C56

Add SSH key

Check out our guide to [generating SSH keys](#) or troubleshoot [common SSH Problems](#).

SSH keys

New SSH key

This is a list of SSH keys associated with your account. Remove any keys that you do not recognize.

Zhangqixun@Mac-pro
Fingerprint: 18:f1:a0:e5:0a:9c:bc:8e:4a:7a:b8:6e:cb:b1:7d:19
Added on 3 Jul 2016 — Last used within the last day

Delete

1111
Fingerprint: 04:75:af:83:a0:06:16:3c:d2:aa:c6:b1:a4:ef:bd:f1
Added on 8 Jul 2016 — Last used within the last 2 days

Delete

win7
Fingerprint: 1e:15:c0:db:d4:ab:f1:b4:ed:ed:5a:b2:52:48:88:59
Added on 9 Jul 2016 — Last used within the last day

Delete

My Mac
Fingerprint: 94:7f:e9:ee:b4:cb:6f:9f:e6:d1:e8:67:58:df:65:8e
Added on 9 Jul 2016 — Never used

Delete

Check out our guide to [generating SSH keys](#) or troubleshoot [common SSH Problems](#).

这个既是我们新增加的SSH key

GPG keys

New GPG key

There are no GPG keys with access to your account.

9. 进入到minWeather的项目目录下，初始化git项目

19

```
Mac-Pro:~ zhangqixun$ cd /Users/zhangqixun/Documents/03_src_code/MiniWeather
Mac-Pro:MiniWeather zhangqixun$ ls
MiniWeather.iml      gradle                local.properties
app                  gradle.properties    settings.gradle
build                gradlew
build.gradle         gradlew.bat
Mac-Pro:MiniWeather zhangqixun$ git init
Initialized empty Git repository in /Users/zhangqixun/Documents/03_src_code/MiniWeather/.git/
```

10. 编辑.gitignore文件

在进行协作开发代码管理的过程中，常常会遇到某些临时文件、配置文件、或者生成文件等，这些文件由于不同的开发端会不一样，如果使用git add . 将所有文件纳入git库中，那么会出现频繁的改动和push，这样会引起开发上的不便。

Git可以很方便的帮助我们解决这个问题，那就是建立项目文件过滤规则。

- .gitignore 配置文件用于配置不需要加入版本管理的文件。
- Git使用.gitignore建立项目过滤规则

请注意文件名前面有一个点。“gitignore”

```
# Built application files
*.apk
*.ap_

# Files for the ART/Dalvik VM
*.dex

# Java class files
*.class

# Generated files
bin/
gen/
out/

# Gradle files
.gradle/
build/
```

```
# Local configuration file (sdk path, etc)
local.properties

# Proguard folder generated by Eclipse
proguard/

# Log Files
*.log

# Android Studio Navigation editor temp files
.navigation/

# Android Studio captures folder
captures/

# IntelliJ
*.iml
.idea/workspace.xml

# Keystore files
*.jks
```

11.将项目提交到github

依次输入以下命令

- `git add .`
- `git commit -m "first commit"`
- `git remote add origin git@github.com:zhangqixun/mini-weather-zqx.git` //git地址请大家自行修改
- `git push -u origin master`

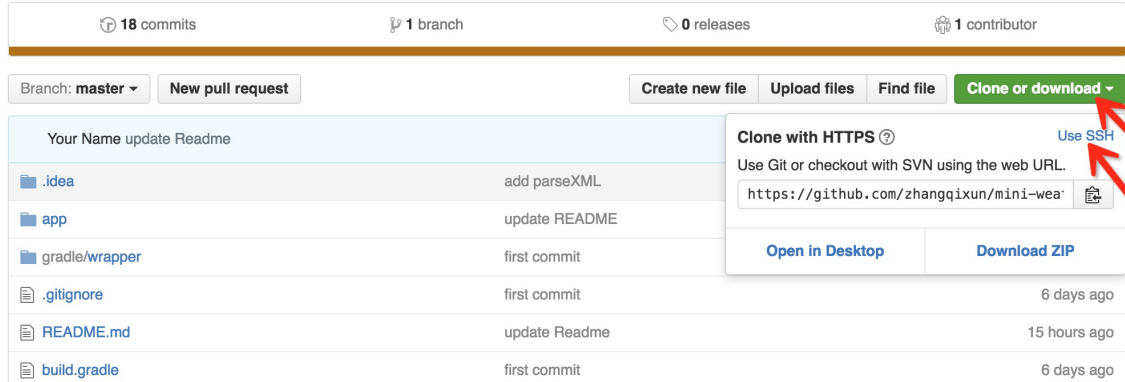
1. 初始化工程

SSH Git地址可通过以下方式获得：

GitHub, Inc. [US] <https://github.com/zhangqixun/mini-weather-zqx>



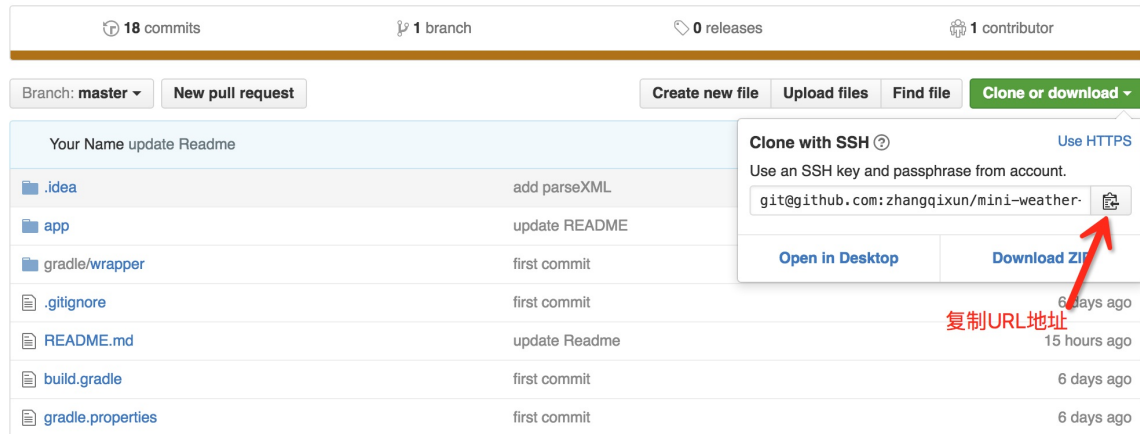
天气预报教学案例 — Edit



GitHub, Inc. [US] <https://github.com/zhangqixun/mini-weather-zqx>

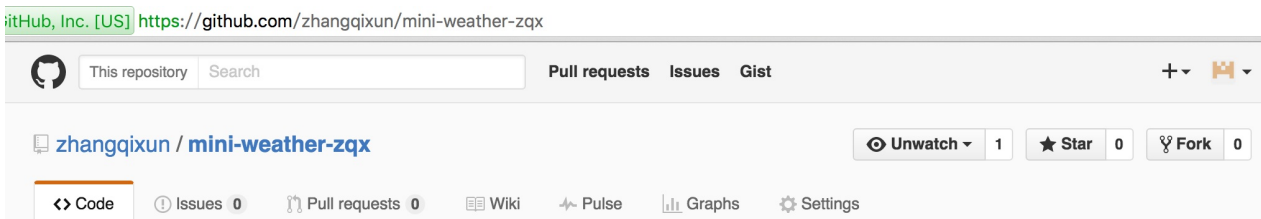


天气预报教学案例 — Edit



以下图片remote的URL为https方式，请大家务必使用ssh方式进行push操作。

```
MiniWeather — -bash — 80x24
create mode 100644 app/src/main/res/values/styles.xml
create mode 100644 app/src/test/java/cn/edu/pku/zhangqixun/miniweather/ExampleUnitTest.java
create mode 100644 build.gradle
create mode 100644 gradle.properties
create mode 100644 gradle/wrapper/gradle-wrapper.jar
create mode 100644 gradle/wrapper/gradle-wrapper.properties
create mode 100755 gradlew
create mode 100644 gradlew.bat
create mode 100644 settings.gradle
Mac-Pro:MiniWeather zhangqixun$ git remote add origin https://github.com/zhangqixun/mini-weather-zqx.git
Mac-Pro:MiniWeather zhangqixun$ git push -u origin master
Username for 'https://github.com': zhangqixun
Password for 'https://zhangqixun@github.com':
Counting objects: 60, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (36/36), done.
Writing objects: 100% (60/60), 84.72 KiB | 0 bytes/s, done.
Total 60 (delta 0), reused 0 (delta 0)
To https://github.com/zhangqixun/mini-weather-zqx.git
 * [new branch]      master -> master
Branch master set up to track remote branch master from origin.
Mac-Pro:MiniWeather zhangqixun$
```



天气预报教学案例 — Edit

1 commit

1 branch

0 releases

0 contributors

Branch: master

New pull request

Create new file

Upload files

Find file

Clone or download

zhangqixun first commit		Latest commit 731cb2e 4 minutes ago
.idea	first commit	4 minutes ago
app	first commit	4 minutes ago
gradle/wrapper	first commit	4 minutes ago
.gitignore	first commit	4 minutes ago
build.gradle	first commit	4 minutes ago
gradle.properties	first commit	4 minutes ago
gradlew	first commit	4 minutes ago
gradlew.bat	first commit	4 minutes ago
settings.gradle	first commit	4 minutes ago

Help people interested in this repository understand your project by adding a README.

Add a README

12. 添加README.md文件

新建README.md文件。文件中增加一些说明文字的内容，例如：README.md文件内容如下：

```
# mini-weather
```

然后执行以下命令：

- git add README.md 或 git add .
- git commit -m “Add README”
- git push

GitHub, Inc. [US] <https://github.com/zhangqixun/mini-weather-zqx>

天气预报教学案例 — Edit

4 commits 1 branch 0 releases 0 contributors

Branch: master New pull request Create new file Upload files Find file Clone or download

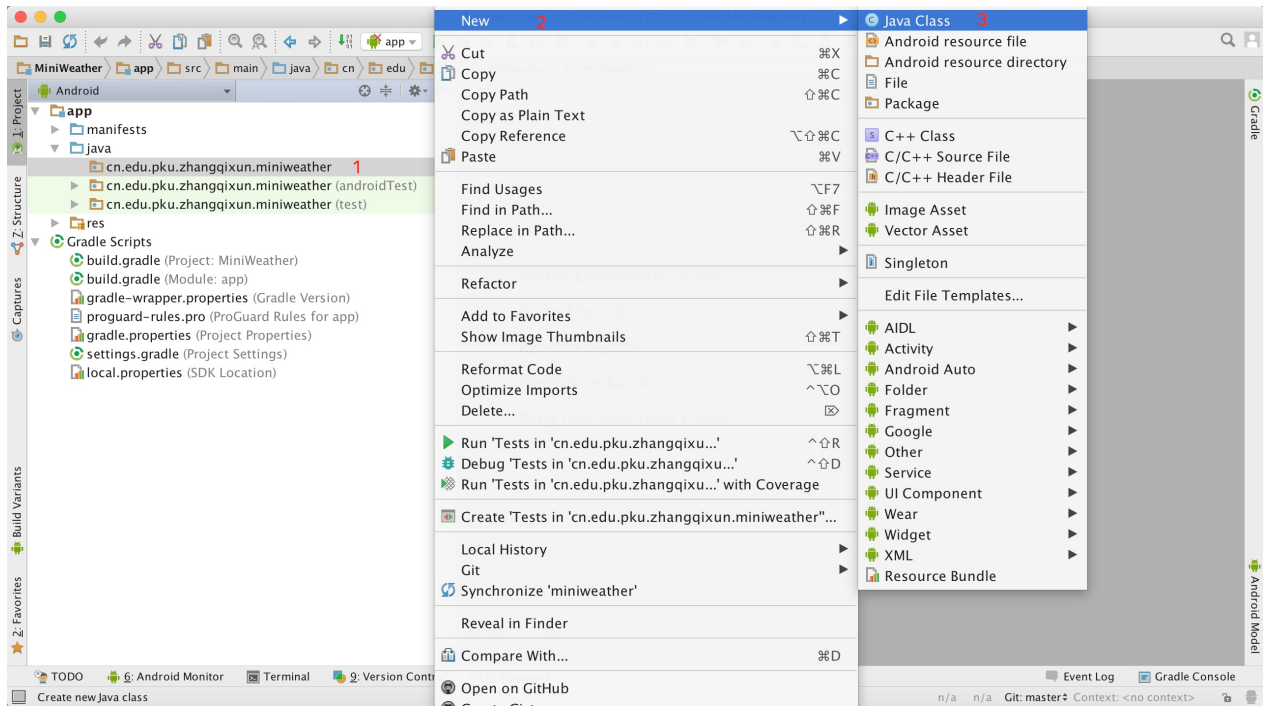
zhangqixun Add README		Latest commit 8ff9d9d 16 seconds ago
idea	first commit	15 minutes ago
app	first commit	15 minutes ago
gradle/wrapper	first commit	15 minutes ago
.gitignore	first commit	15 minutes ago
README.md	Add README	16 seconds ago
build.gradle	first commit	15 minutes ago
gradle.properties	first commit	15 minutes ago
gradlew	first commit	15 minutes ago
gradlew.bat	first commit	15 minutes ago
settings.gradle	first commit	15 minutes ago

README.md

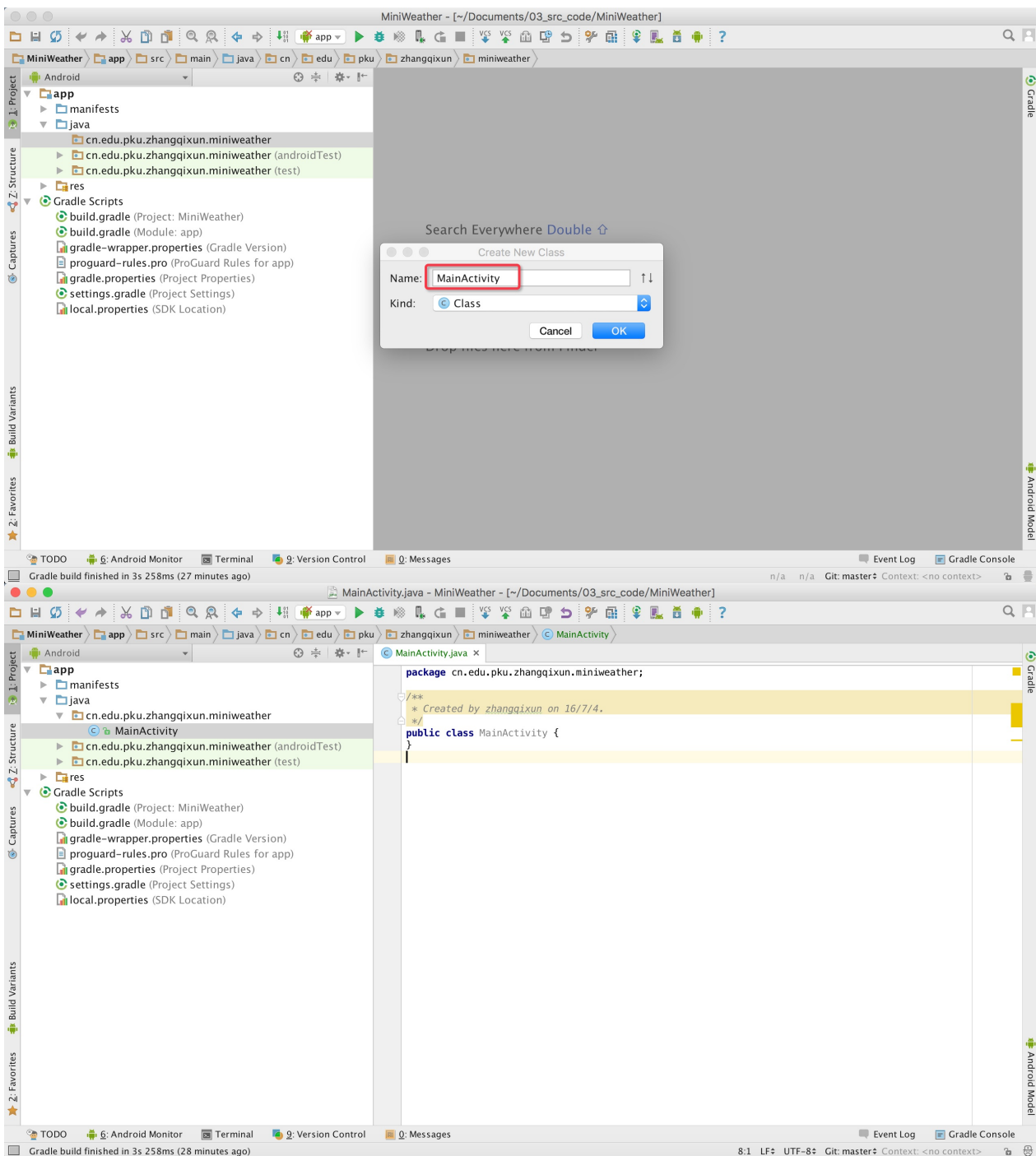
```
mini-weather
```

13. 新建一个继承Activity的Class

1. 初始化工程



1. 初始化工程

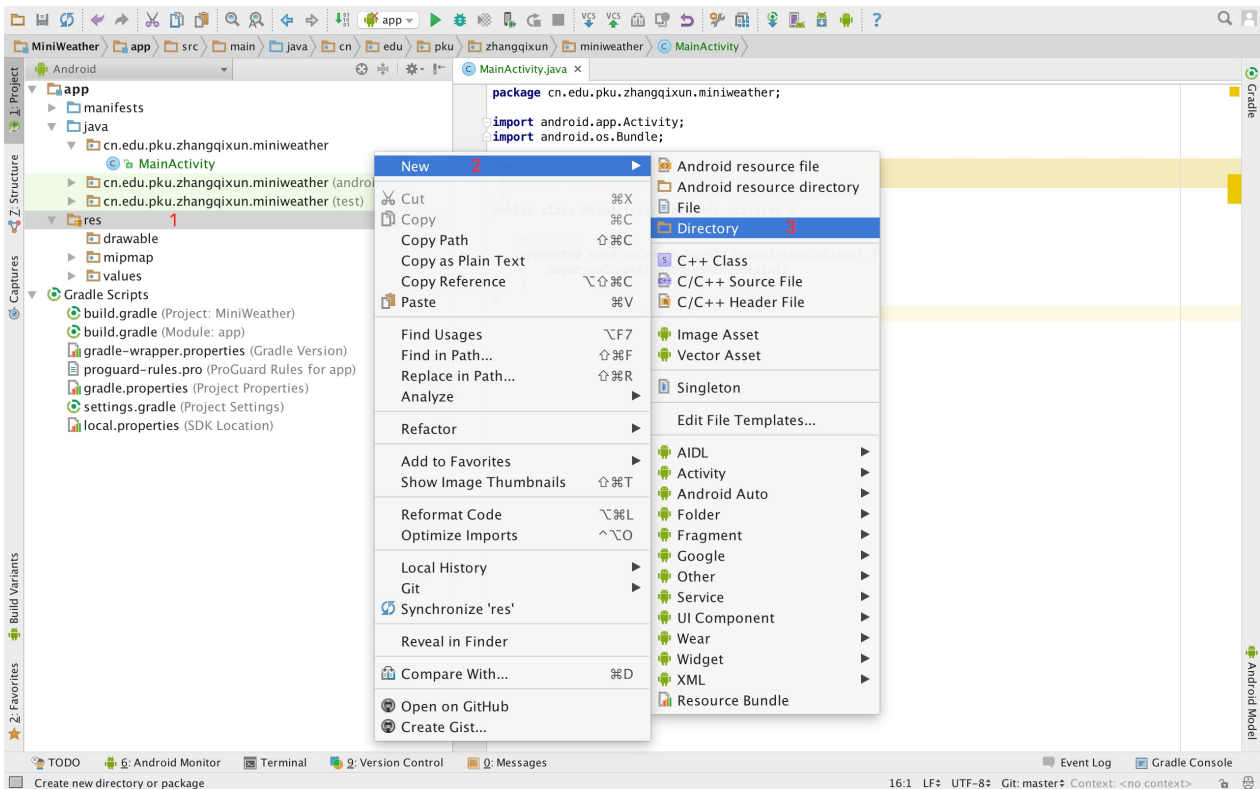


```
public class MainActivity extends Activity {

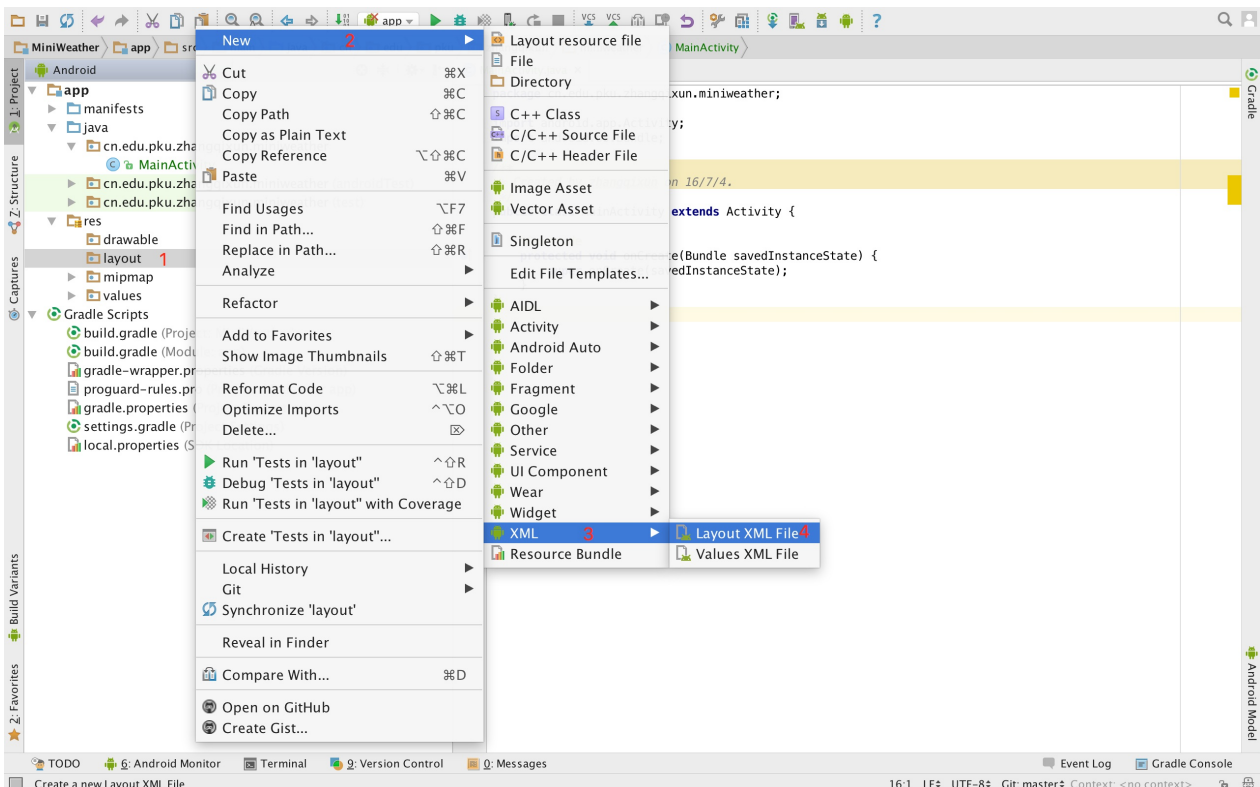
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
    }
}
```

14. 在Layout目录下，新建一个布局文件

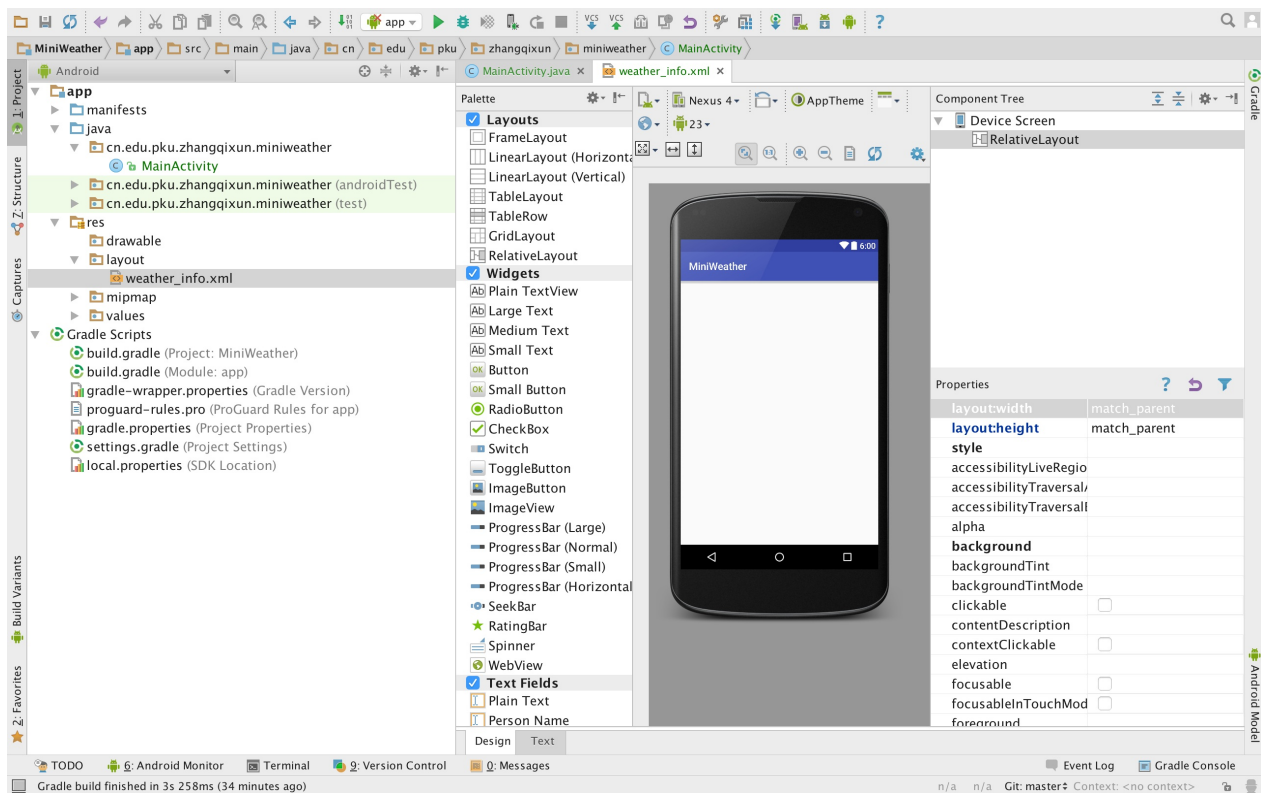
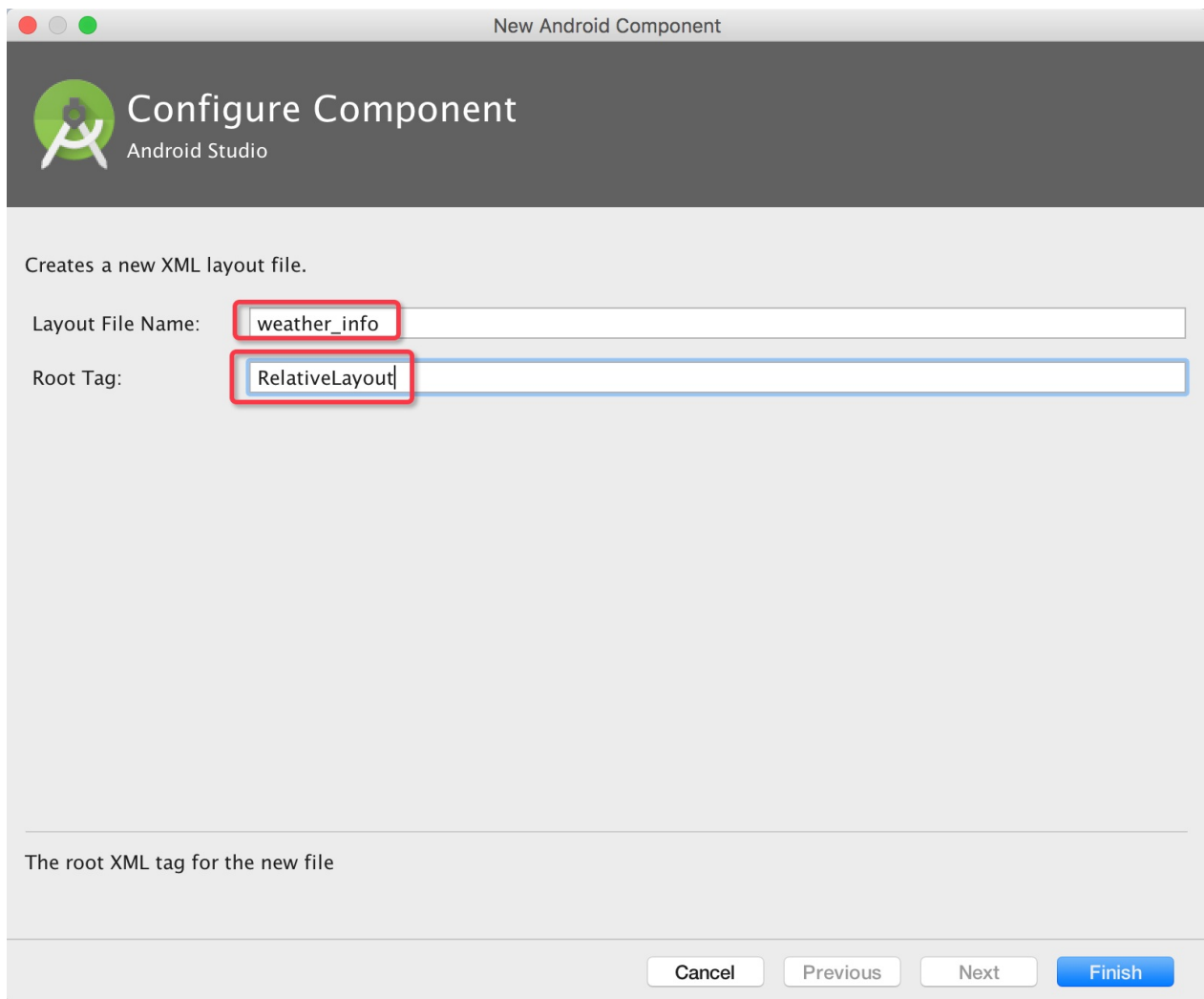
1. 初始化工程



新建一个layout目录。接下来新建一个布局文件“weather_info”。



1. 初始化工程



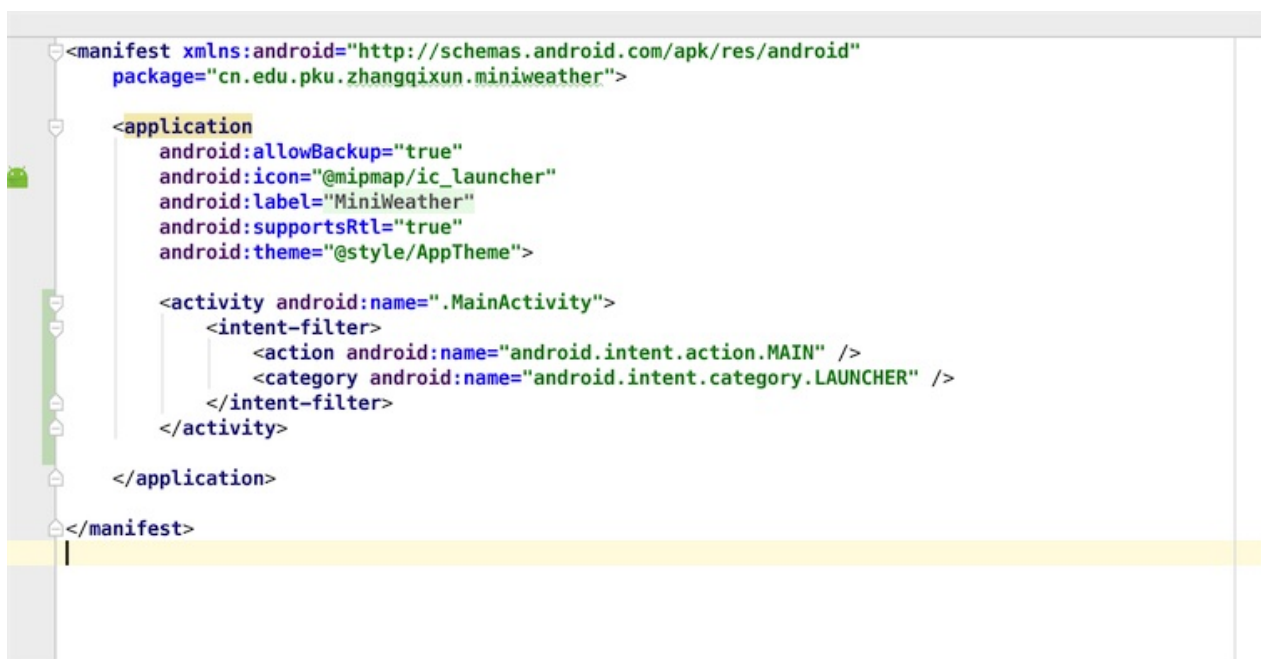
```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="天气预报项目"/>
</RelativeLayout>
```

15.在Activity中通过调用setContentView方法加载布局

```
public class MainActivity extends Activity {

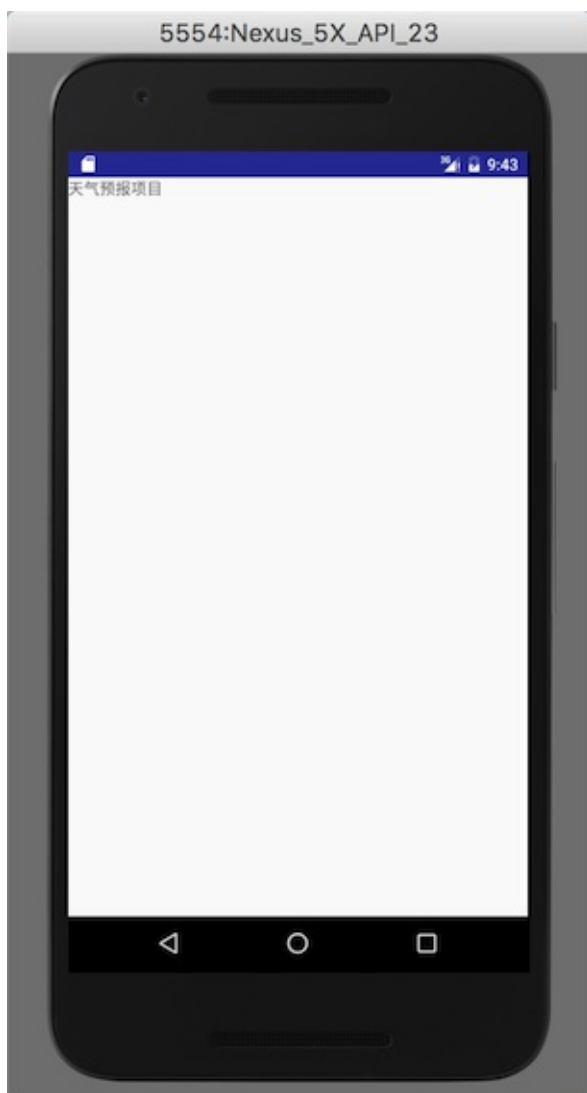
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.weather_info);
    }
}
```

16.在AndroidManifest文件中注册Activity



17. 运行程序

可以再模拟器上运行，也可以在真机下运行。



18.提交到github

- `git add .`
- `git commit -m "init project"`
- `git push`

帮助信息

1、如何使用命令行创建一个新的仓库？

- `git init` //在当前项目目录中生成本地git管理,并建立一个隐藏.git目录
- `git add .` //添加当前目录中的所有文件到索引库
- `git commit -m "first commit"` //将索引内容添加到仓库中。 并附加提交注释
- `git remote add origin git@github.com:zhangqixun/mini-weather-zqx.git` //添加

一个名为“origin”的远程仓库

- `git push -u origin master` //把本地源码库master分支，push到远程仓库（github）别名为origin的远程仓库中，确认提交。使用-u选项指定一个默认主机，这样后面就可以不加任何参数使用git push。 `git push <远程主机名> <本地分支名>:<远程分支名>`

2、每次提交更改的文件到远程库

- `git add .`
- `git commit -m "提交注释信息"`
- `git push`

3、Git其他命令

- `git clone url`：获取一个url对应的远程Git repo, 创建一个local copy.
- `git status`：查询repo的状态
- `git branch`：列出本地所有分支,当前分支会被星号标示出.
- `git branch (branchname)`: 创建一个新的分支(当你用这种方式创建分支的时候,分支是基于你的上一次提交建立的).
- `git checkout (branchname)`：切换到一个分支.
- `git remote`：列出remote 别名.
- `git remote rm [别名]`: 删除一个存在的remote alias.
- `git remote set-url [别名] [url]`:更新远程repo的url.
- `git config -l`：查看git config的信息
- `git push -f`：强推，即利用强覆盖方式用你本地的代码替代git仓库内的内容