Tidal Gauge App Documentation

Release first preview on android – app bond's version

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CHAPTER 1

App info

This app display a graph obtained from database connected to tidal station.

This is automatically updated every data entered in database.

For now, this app is monitoring S.Sebastiao station (BRAZIL) available for android.

The application also shows:

- the average of all records from database
- the minimum and maximum values that occurred these past three days.

This application was developed in the context of RedeLitoral project, consisting of a large network of scientific collaboration. Visit the [Redelitoral website] (http://www.redelitoral.ita.br/index.php/inicial)

CHAPTER 2

Installation

You can install it via [Google Play Store](https://play.google.com/store/apps/details?id=org.demo.test8)

CHAPTER 3

Requirements

Android

You can run Kivy applications on Android, on (more or less) any device with OpenGL ES 2.0 (Android 2.2 minimum).

CHAPTER 4

More info

Visit the [github tide-app](https://github.com/mabelcalim/tide-app)

Note:

Many thanks:

- to my friends Gaúcho (Luiz Irber) and GG (Gabriel Geraldo Marcondes) who encouraged me in creating this application
- To my colleagues and friends from RedeLitoral

CHAPTER 5

DIY

Do it Yourself (DIY) your own kivy app!

Note: This guide was developed on OSX 10.9.5, python 2.7, kivy 1.8.1

1. brew install dpkg
2. vi .bash_profile and comment this line

#export ARCHFLAGS = "-arch x86"

1. create your app - main.py
2. save your dir in your home

` /Users/usuario/dir ` 3. init buildozer

` dir usuario$ buildozer init ` 4. modified the buildozer spec file

` dir usuario$ vi buildozer.spec ` 5. create a virtualenv in your dir

` dir usuario$ virtualenv venv --distribute ` 6. activate virtualenv

` dir usuario$ source /venv/bin/activate `.. note:

```
to deactivate :
dir usuario$ deactivate
```

7. run buildozer - see more in : https://github.com/kivy/buildozer

` dir usuario$ buildozer android release `

5.1 Signed and Zipalign

More infos to create a signature and to zip in : https://github.com/kivy/kivy/wiki/Creating-a-Release-APK

1. change the dir

` dir usuario$ cd ~ ` 2. Obtain a keystore

``` keytool -genkey -v -keystore ./keystores/<my-new-key>.keystore -alias <my-alias> -keyalg RSA -keysize 2048 -validity 10000

``` 3. then signed as follows

``` jarsigner -verbose -sigalg SHA1withRSA -digestalg SHA1 -keystore ./keystores/<my-new-key>.keystore ./<my-project>/bin/<MyProject>-<version>-release-unsigned.apk <my-alias>
```

‘‘‘ 4. zip the apk already signed

‘‘‘ .buildozer/android/platform/android-sdk-21/build-tools/21.1.1/zipalign -v 4 ./<my-project>/bin/<MyProject>-<version>-release-unsigned.apk ./<my-project>/bin/<MyProject>.apk

‘‘‘ .. warning:

The zipalign script may not be in tools, but you can also find it in build-tools.

5.2 adb logcat and installation on android

1. change to dir

```
` cd /Users/usuario/.buildozer/android/platform/android-sdk-21/platform-tools
`
```

2. install device

```
` platform-tools usuario$ ./adb start-serve `
```

```
` platform-tools usuario$ ./adb devices `
```

3. adb install the apk on android for test

```
` platform-tools usuario$ ./adb install /Users/usuario/dir/bin/<app-name>.apk
```

` 4. see error log

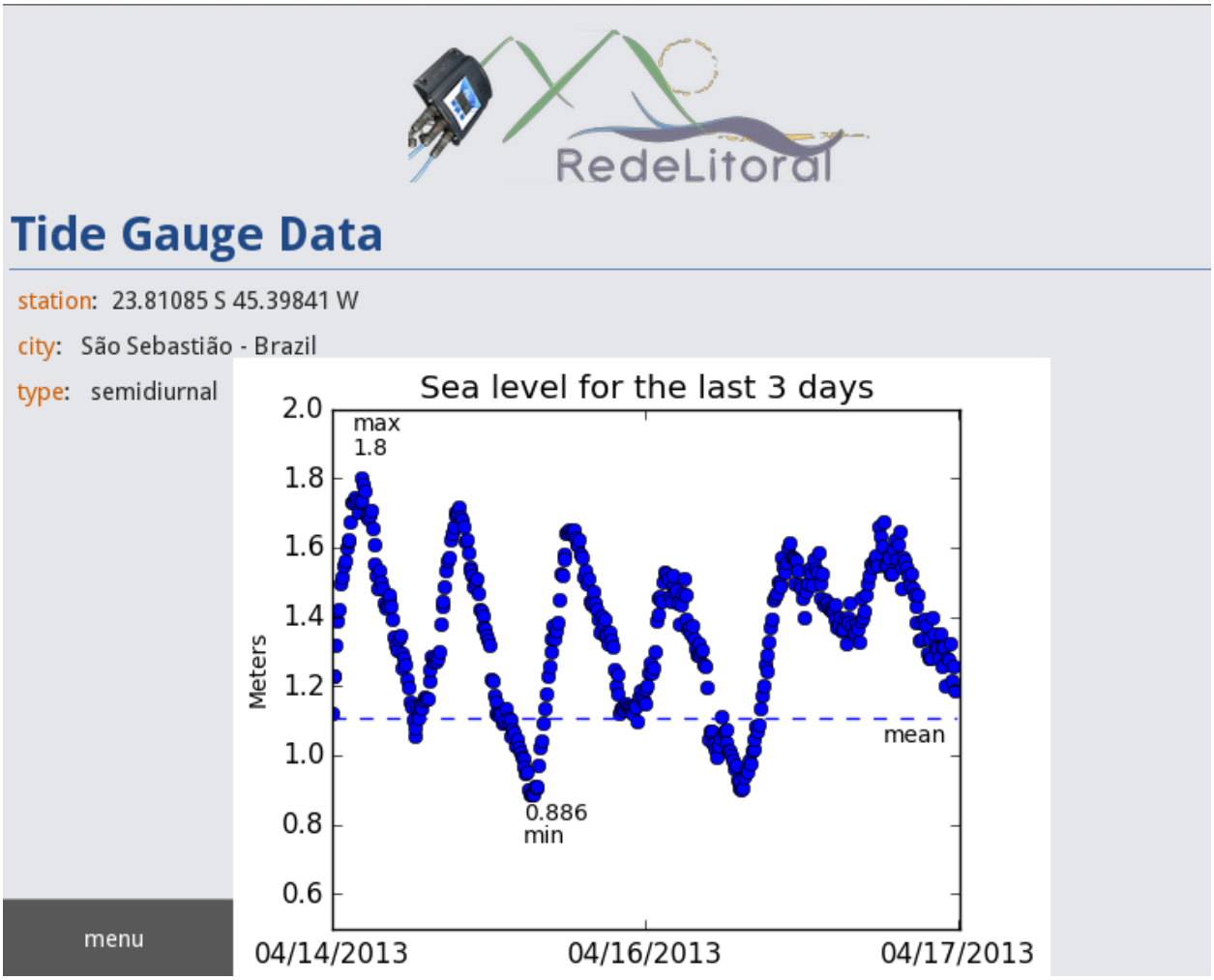
```
` platform-tools usuario$ ./adb logcat `
```

Tide Gauge Data

station 23.81085 S 45.39841 W

city São Sebastião - Brazil

type semidiurnal



Note: More app info:

```
tide-app.readthedocs.org/en/latest/index.html
https://github.com/mabelcalim/tide-app
```

CHAPTER 7

Indices and tables

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