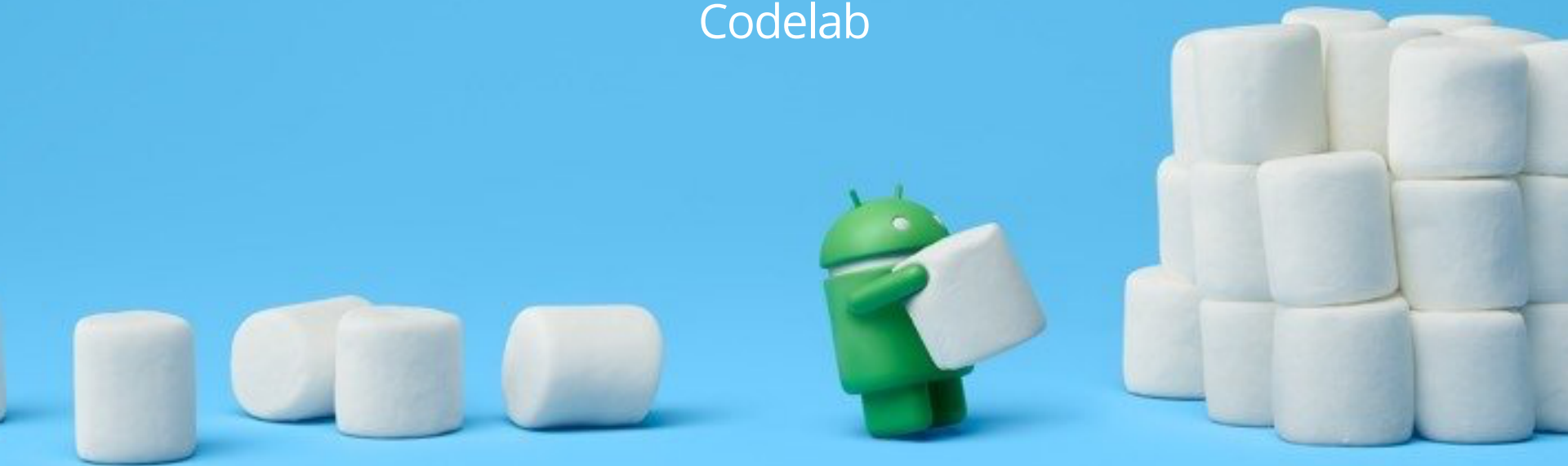


# Android Auto Backup

Codelab



# Who am I?!



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# Prerequisite

- Build tools at least 23.x.x
- Support library at least 23.x.x
- Android 6.0 Emulator/Device

# What can it do and when?

- **Auto backups your data to your Google Drive**
  - When device is idle
  - When device is charging
  - When device is connected to a Wi-Fi network
  - At least 24hrs has elapsed since the last backup
- **Auto-backup on Android 6.0 and up**
  - Except cache
  - Except external storage
  - Except no-backup-files directory
- **Up to 25MB per app, is encrypted, and free**

# How?

- **Do nothing!**
  - As long as it is Android 6.0 and up
- **Define an XML scheme (in res/) in android:fullBackupContent under your <application>-declaration in your manifest**
- **Domains**
  - file
  - database
  - sharedpref
  - external
  - root
- **Include and exclude**
- **Disable by setting android:allowBackup to false**

# "Testing"

- Enable system logs for backups

```
adb shell setprop log.tag.BackupXmlParserLogging VERBOSE
```

- Initiate a backup

```
adb shell bmgr run
```

```
adb shell bmgr fullbackup <PACKAGE NAME>
```

- Initiate a restore

```
adb shell bmgr restore <PACKAGE NAME>
```

# Additional notes

- **Pre-Marshmallow devices will need to extend the Backup API and register to Android's Backup Service**
  - Device dependent
  - Manual
- **Consider what *not* to backup**
  - Device specific tokens
  - Sensitive or personal info
  - Media

**END**



# References and further readings

- Configuring Auto Backup for Apps