

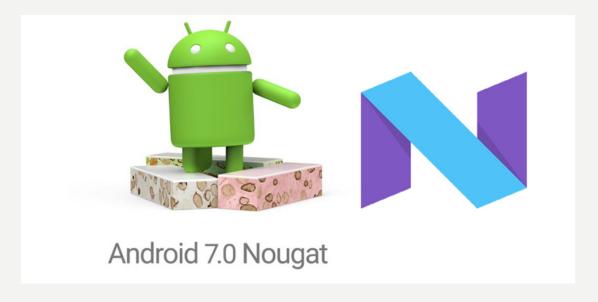
CPE405 ADV CPE 2560-01 #00
NAVADON KHUNLERTGIT

android

- The most popular mobile OS in the world
- Developed by Google
 - Initially developed by Android Inc. which Google bought in 2005
 - First commercial device: 2008
- Linux kernel / Open source / Free to use / Free SDK
- Designed primarily for touchscreen devices
 - Mobile, Tablet, TV, Auto, Wear
- Android RunTime (ART) virtual machine

android

- 2 billion monthly active Android devices (Google I/O 2017)
- Samsung = 48.5% of current market share in Android phone manufacturer
- Current released version: 7.1.2 Nougat





android

- To be released...
- Android 8.0 < name of dessert that begins with "O">





- Preferred method for distributing Android apps
- One-time \$25 registration fee for developers
- 70:30 income shared between developer and Google
- No approval process (but can be removed without warning!)
- Apps can be free, paid, and/or include in-app purchases
- ~82 billion app downloads (wikipedia)
- ~3 million apps available (AppBrain.com [2017-08-07])





Developers with most installs



Estimated installs: 50B







Samsung Electronic...

Estimated installs: 5B







Facebook

Estimated installs: 5B







WhatsApp Inc.

Estimated installs: 2B





Outfit7

Estimated installs: 2B







King Estimated installs: 2B







Microsoft Corporati...

Estimated installs: 2B









Instagram

Estimated installs: 2B





LINE Corporation

Estimated installs: 2B







Sony Mobile Comm...

Estimated installs: 1B









Estimated installs: 1B







Rovio Entertainme...

Estimated installs: 1B







BUSINESS OF APPS

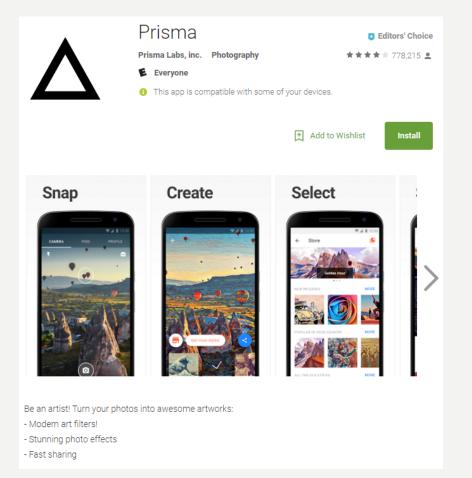
- Android vs iOS
- App Analytic Tools
 - Top search / Top categories
 - Country
 - CPI: Cost Per Install (not Consumer Price Index)

Android vs iOS

- Pros
 - File transfer via USB port and Android File Transfer Desktop App
 - Photo transfer via USB port without App
 - File manager available
 - Widgets available (iOS only in Notification Center)
 - Massive hardware selection:
 - Phone manufacturer
 - SDK versions
- Any of them can be a two-edged sword!

BESTAPPS OF 2016 (INTHE US)

• Editor's choice



• More at...

https://play.google.com/store/i nfo/topic?id=merch_topic_b00 00b2_apps_TopicPage_bestof2 016

GLOBALLY?

- Top Trending Apps
 - Face Changer 2 (funny effect)
 - Lumyer (cool effect)
 - Castbox (Podcast radio music)
 - Emoji Keyboard Pro
 - MSQRD (Face Swap/Selfie by Facebook)
- Top Trending Games
 - Pokemon GO
 - Clash Royale (Clash of Clans: build village, raise clan, and war)
 - Traffic Rider (motorbike racing)
 - slither.io (snake!)
 - Dream League Soccer (FIFA/PES-like)

HOW ABOUT THAILAND?

- Best App: Prisma
- Most Innovative: Camera 360Lite / Waze (GPS) / Grab / VivaVideo / Eatigo (restaurant discount)
- Most Share-worthy: AliExpress / GoKeyboard / SNOW (selfie) / TrueMoney / SnapChat
- Most Beautiful: PicsArt / Piggipo / Shake-itAlarm / Colorfy (coloring book) / Airbnb
- Best Local: Kaidee / Wongnai / Ookbee / Wink Camera / Keyboard Man Man
- Best Self-Improvement: 7-min workout / Water Drink Reminder / Memrise (Learning Languages) / LinkedIn / Learn English

HOW ABOUT THAILAND?

• Devices most used. (AppBrain.com [2017-08-07])

Model	Market share
Samsung Galaxy J7	5.3 %
Samsung Galaxy J7(2016)	4.1 %
Samsung Galaxy J2	4.1 %
Samsung Galaxy J2 Prime	3.9 %
Oppo A37f	3.4 %
Samsung Galaxy J7 Prime	3.3 %
Oppo A1601	1.8 %
Samsung Galaxy Core Prime	1.5 %
Vivo 1601	1.5 %
Samsung Galaxy Note3	1.5 %

ANDROID APP DEVELOPMENT



- Android Studio
 - Official IDE for Android
 - Based on JetBrains' IntelliJ IDEA



- Current stable version: 2.3.3 [2017-06-08]
- 3GB RAM minimum plus IGB for the Android Emulator
- Recommended: 8GB RAM and your own Android device.
- Disk storage: 2GB++
 - Android Studio + Android SDK + JDK

TOPICS

- Android Fundamentals
- Material Design
- Single Screen App
- Multi Resolution/Multi Language App
- Multi Screen App
- Activity Lifecycle
- Design Pattern (MVP, MVVM)
- RecyclerView, CardView
- Fragment
- Media and Camera

- If time allows...
 - Adding Libraries
 - Using Google API
 - Monetization
 - App Analytic Tools

BYE FOR NOW

GOT QUESTIONS?

