

Quick Tour of Android

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Some Statistics


 **Nearly 86 % of all new smartphones (1st quarter 2018)**

 **2 billion monthly active Android users**

 **Smartphones, TV, cars, tablets, watches**

 **3 800 000 applications**

 94.5 % free

 5.5% paid



 **30 % of Android users are Millenials**



Brief History



2003: Android Inc. by A. Rubin



-  A. Rubin had previously worked for Apple and MSN
-  Idea: create an Operating System for digital camera/phone



2005: Google acquired Android for \$50 million



2007: Open Handset Consortium Alliance

-  35 technology and mobile company: Google, Samsung ... but not Blackberry, Nokia or Microsoft
-  Compete against Apple iPhone





2008: Android SDK-1 on T-mobile G1



Brief History



2010: Android is profitable for Google

-  Introduction of Nexus One and S
-  Samsung introduces the first Android Tablet



2010-2011: TVs, autoradio (Parrot), Netbooks



2012: Google Play

-  Merge Google Music and Google Market
-  MyPlay first Gaming Tablet (DEA)



2014: Wearable / Auto



2015: Brillo Project / Weave Protocols

Bugdroïd: a tribute to Gauntlet: the 3rd Encounter



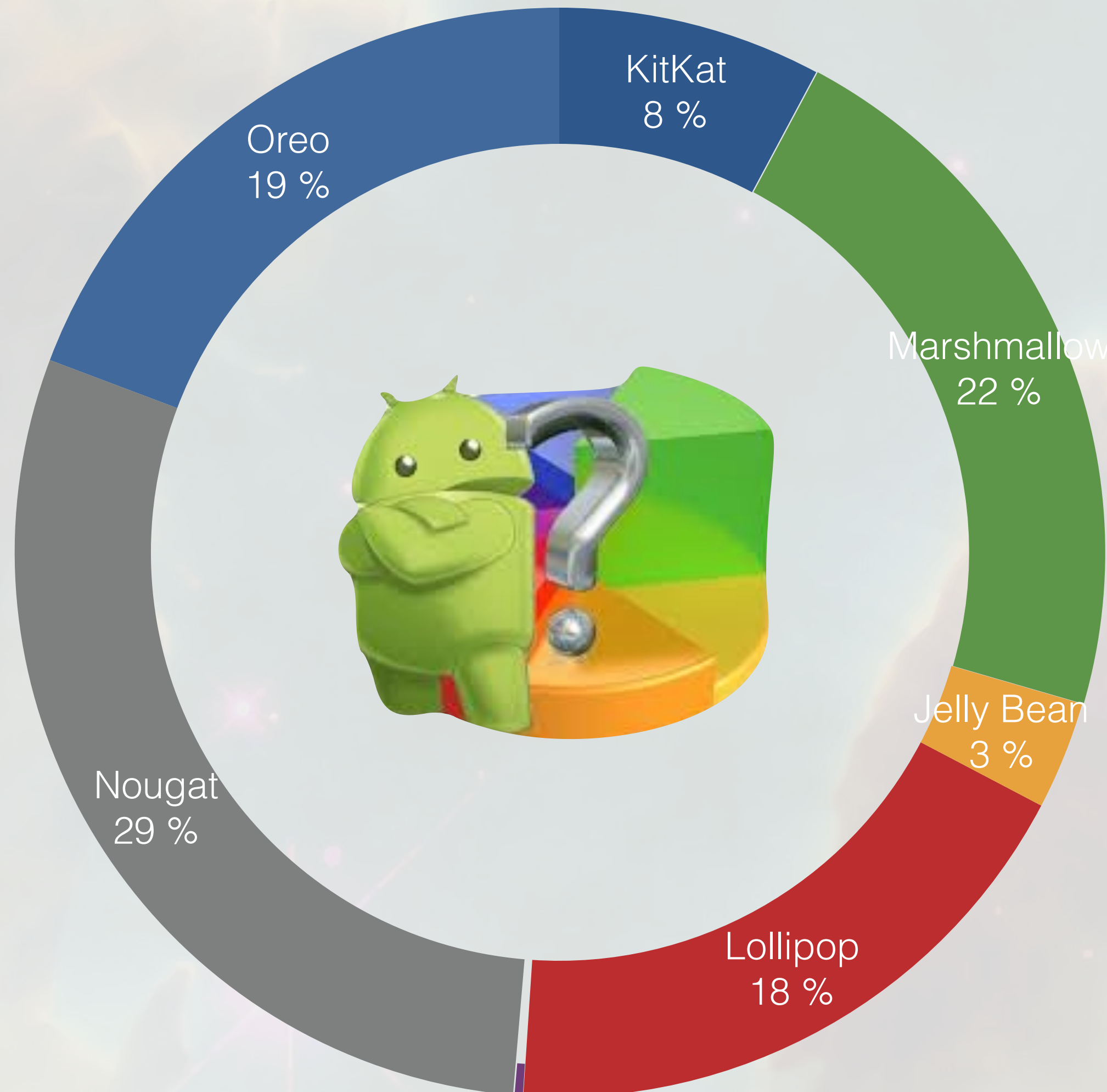
Bugdroïd: a tribute to Gauntlet: the 3rd Encounter



Versions

	API Level	Version	Logo
April'09	1 - 3	Cupcake	
September'09	4	Donut	
October'09	5 -7	Eclair	
May'10	8	Froyo	
Décember'10	9 - 10	Gingerbread	
July'11	11 - 13	Honeycomb	
December'11	14 -15	Icecream	
July'12	16 -17	Jelly Bean	
October'13	19	Kitkat	
June'14	21	Lollipop	
October'15	23	Marshmallow	
August'16	24	Nougat	
August'17	26	Oreo	
March'18	28	Pie	

Android OS Distribution



Royalties, Licences & Open-Source



Microsoft makes money with Android

- \$5 to 15\$ for each phone
- 300 Software Patents



Licenses

- Gnu General Public License, Version 2.0

▶ For the Linux Kernel

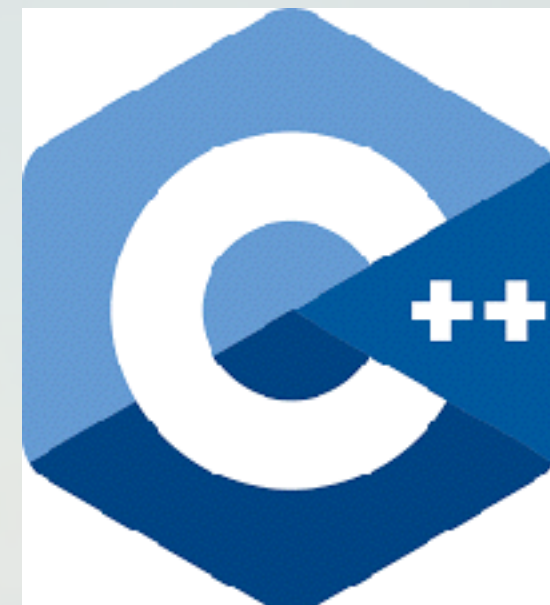
- Apache Software License, Version 2.0

▶ All that is not Kernel

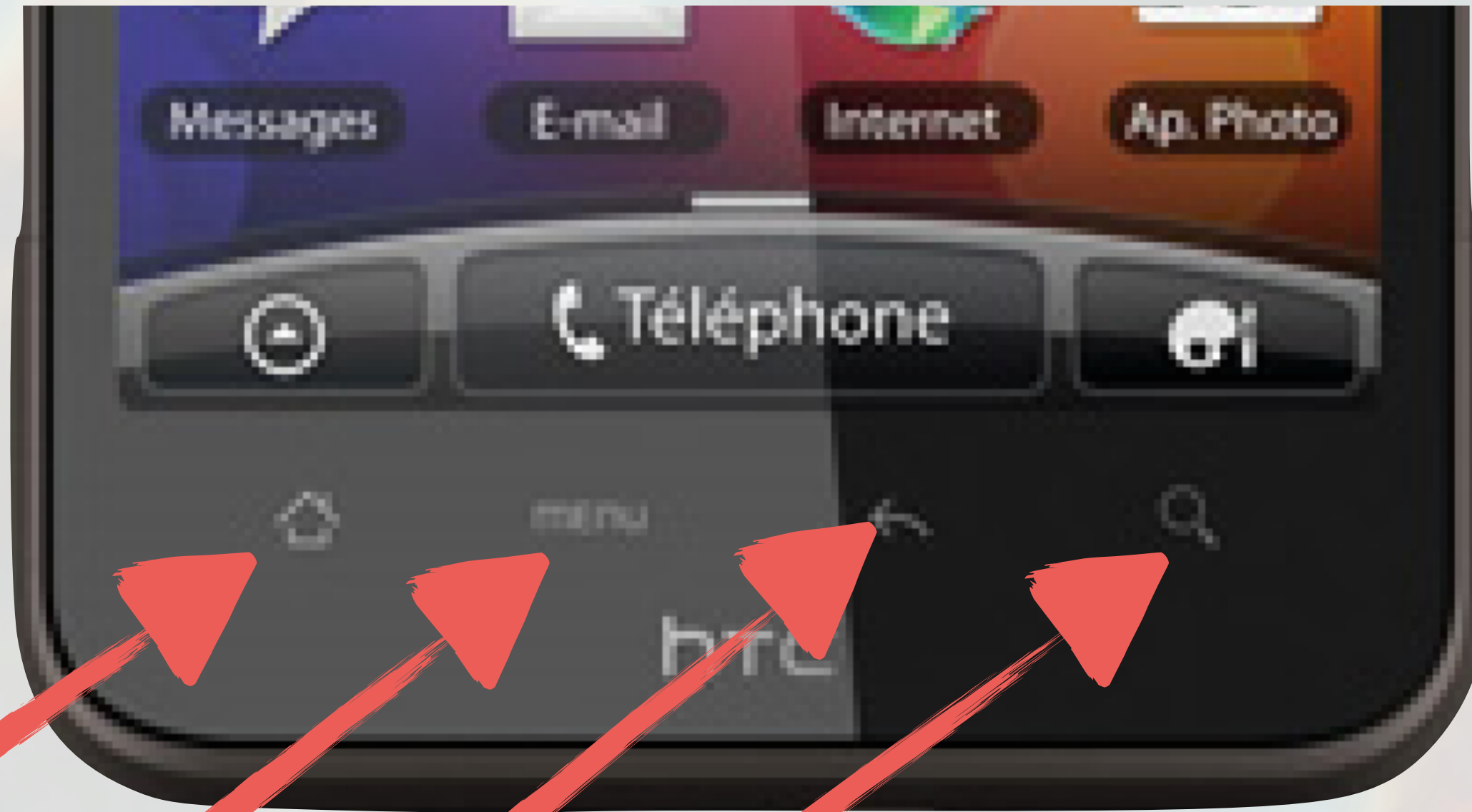


Developpement Environment

- Java, XML, C++, ...



Android Phone



HOME: back to the home

MENU: optional menu

CANCEL: discard current screen

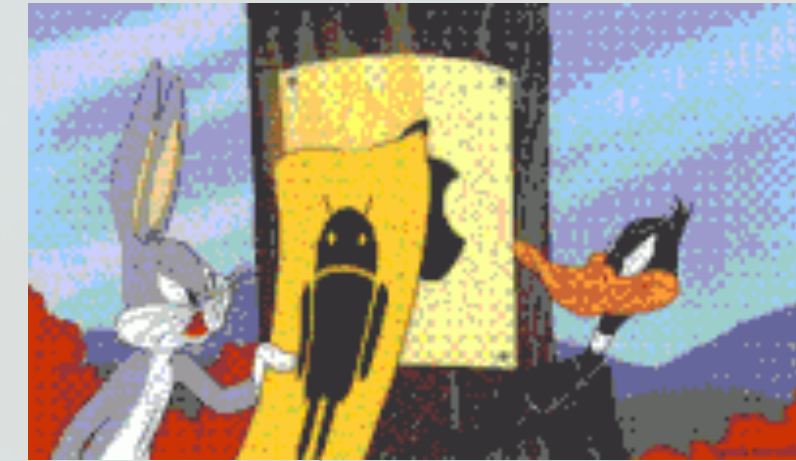
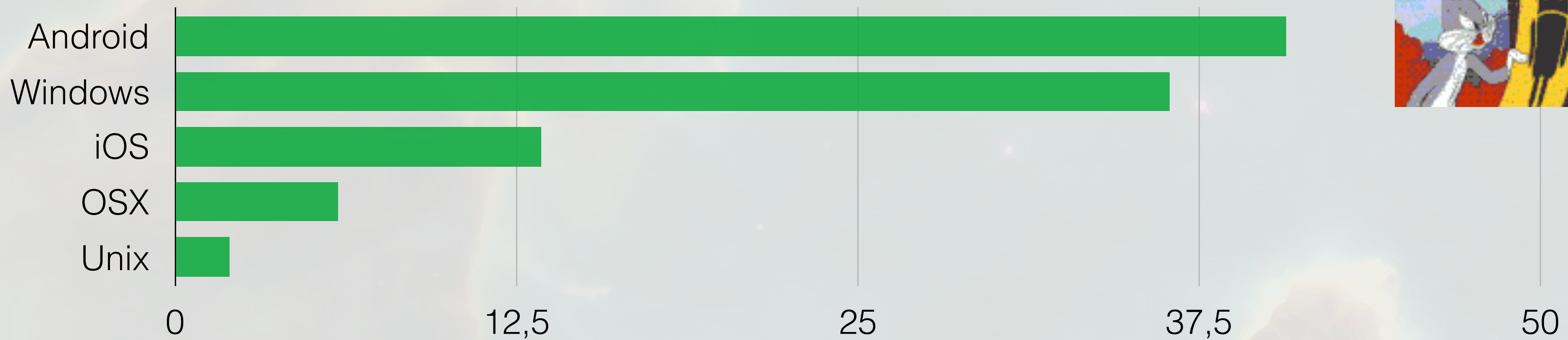
SEARCH: lookup



Summary



OS Distribution - world wide marketshare



A lot of phones to handle

- Different API versions
- Different hardware
- ... Handle this in in single App!



Don't reinvent the wheel!

