

DEVICE

DIGITAL TEST COVERAGE INDEX

EDITION 6

| JANUARY 2017

WHICH DEVICES &
BROWSERS WILL GIVE
YOU THE BEST TEST
COVERAGE?

PROJECTIONS FOR 2017

P. 6



Table of Contents

Why We Created This Index	Pg. 3
How We Built the Index and How to Read it.....	Pg. 4
Key Takeaways	Pg. 5
NEW 2017 Projections	Pg. 6
The Importance of User Condition Testing	Pg. 7

Indexes by Country

Most-Used Mobile Applications U.S.	Pg. 8
Most-Used Mobile Applications UK	Pg. 9
Most-Used Mobile Applications Germany	Pg. 10
Most-Used Mobile Applications Canada	Pg. 11
Most-Used Mobile Applications Brazil	Pg. 12
Most-Used Mobile Applications Australia	Pg. 13
Global Web Index	Pg. 14

North and South America

U.S.....	Pg. 15
Canada.....	Pg. 16
Brazil	Pg. 17

EMEA:

EU5.....	Pg. 18
UK	Pg. 19
Germany	Pg. 20
Netherlands	Pg. 21
Switzerland	Pg. 22
Italy	Pg. 23
Spain	Pg. 24
France.....	Pg. 25

APAC:

Australia.....	Pg. 26
China	Pg. 27
India	Pg. 28

Calendars

Mobile Market Calendar 2017	Pg. 29
Web Browser Calendar 2017	Pg. 30

Why We Created This Index

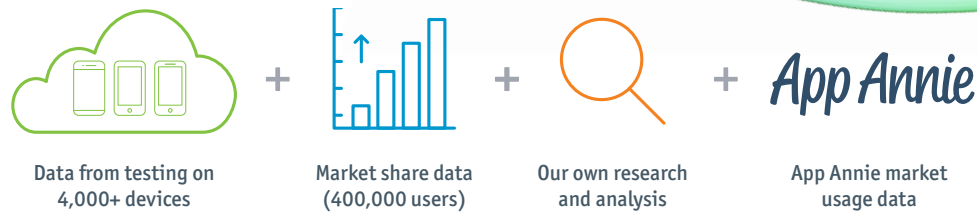
Our customers often ask us a simple question:

On what devices and browsers should I be testing my apps and websites?

As the leader in quality for mobile apps and websites, Perfecto is uniquely positioned to give the most accurate answer. In this report, we've merged our exclusive data with current market data to provide a benchmark of devices, web browsers and user conditions (location changes, apps in the background) to test on, to aid in your pursuit of digital excellence. This is the culmination of what we've learned from our most-valued customers and we're excited to pass these insights on to you.

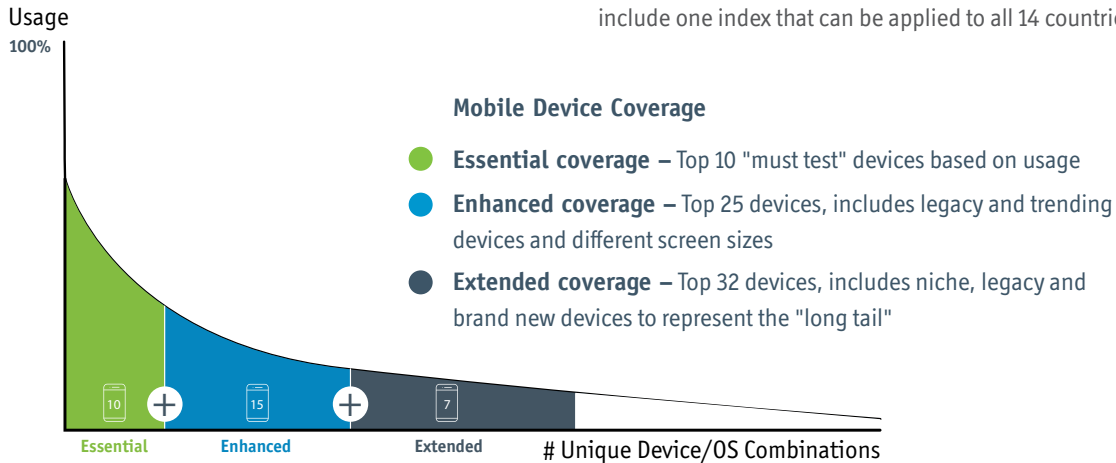


How We Built the Index



No single data source tells the full story, so for these indexes we've combined exclusive Perfecto data and mobile market usage data across a variety of countries into our own analysis.

The indexes offer up-to-date benchmarks that list the top smartphones, tablets and operating systems based on usage. **These are the device/OS combinations on which you should develop and test your mobile, web and responsive web apps.** For desktop browsers, we include one index that can be applied to all 14 countries in the report.



How to Read the Index

Each country featured in the report gets its own digital coverage profile with testing recommendations for mobile devices and operating system versions to create a holistic view of what's required for digital quality testing.

To identify your most optimal test coverage, you'll first need to determine your device coverage goal.

Devices that Matter to You

Our list of 32 devices per index for each country is winnowed down from hundreds of possible devices to give you the maximum coverage with the fewest devices possible. Each index is divided into three groups—"Essential", "Enhanced" and "Extended" (See graphic above). Each group includes the previous group's devices. If your testing covers all 32 devices across the three groups, you'll have the most complete recommended test coverage with the least risk.

Select your target country and then refer to the corresponding device list, making note of the "recommended OS version" column to see the recommended testing mix of devices and platforms. We include an up/down arrow or equals sign to indicate usage changes since last quarter. Devices that are new to the index or are reference devices running the latest OS are marked as such.

In this edition, we're featuring the top 16 most-used apps across six countries, based on App Annie's data. We recommend installing and launching these apps prior to testing your mobile app to get you closer to the real user environment.

Testing Web Browsers

In our standalone Web Test Coverage Index (pg. 14), we list the browser/OS combinations—categorized by Latest, Previous and Newest Beta—that organizations in every country should test on to achieve desired market coverage. Given that browser versions update quickly and often automatically without users knowing, it's important to ensure that browser quality aligns with a variety of OS versions.

And finally, we've included an updated **mobile market and web calendars** (pgs 29 and 30) showing what device models, OS versions and browser/OS combinations to look out for this year.

Note

This Index is an objective reflection of selected markets based on mobile device usage of specific operating system versions. Some of the device and operating system combinations that are recommended in this report may no longer be available from OEMs or wireless network providers due to today's ever-changing market dynamics.

Key Takeaways

Market Insights and Recommendations

1. **Beta OS versions** should be an important aspect of your test coverage strategy. With Apple releasing 5 different minor iOS 10 versions since the iOS 10 launch in September 2016, iPhone/iOS 10 beta are a must-include device/OS combination. On the browser side, it is also critical to test Chrome and Firefox beta versions in order to sustain the quality of your mobile web or responsive websites.

iOS



2. **Android fragmentation** is changing as Google has begun pushing various device vendors to update to the latest OS versions. As evidence, we already see that Android 6 (Marshmallow) has the biggest market share as of Q4 2016 with around 27%, followed by Android 5 (Lollipop). Since Google released its first device, Pixel, the market is seeing also a boost in Android 7 (Nougat) adoption which is expected to grow within Q1 2017 towards 2-5% market share. This past year, 2016, has been another big year for OS releases. Android 7 (Nougat) and iOS 10 were released to the market in August and September, forcing QA teams to modify their existing test plans around these two major releases. With a high iOS adoption rate, teams needed to focus on iOS 10 compatibility testing. Android adoption is typically slower for the major device manufacturers (usually six months) which left teams additional time to prepare test plans for Android 7 (Nougat), while leveraging Google Nexus devices for preliminary testing.

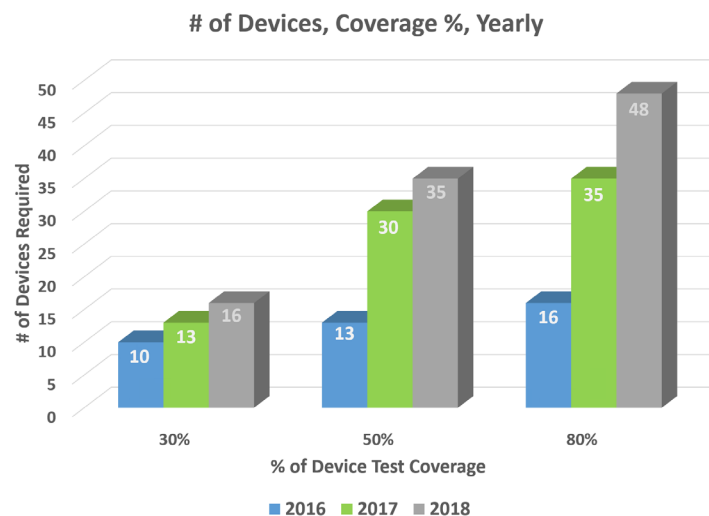
3. **Galaxy S7 and S7 Edge were a turning point for Samsung:** Over the last year, Samsung saw a revenue slowdown because of competition from both Apple and emerging Android vendors OnePlus, Xiaomi and Huawei. With the launch of Samsung S7 & S7 Edge, the company regained its market share. We can see in this edition of the Index and the previous one, that Samsung is the de-facto brand in many countries, which should impact test coverage plans in Brazil, India, Netherlands, UK, Germany and U.S. where Samsung is the leading Android vendor.
4. **The method of engagement method is changing:** as various organizations count on their mobile platform to drive more revenue and attract more users. We see more and more adoption of external application engagement, either through dedicated OS

level applications like the iMessage, or through other solutions like the Google app shortcuts, that were recently introduced as part of Android 7.1. These changes introduce a challenge from a testing perspective, since there are now additional "outside of app" dependencies that the Dev and QA teams need to cover in their test automation/CI workflows accordingly.



5. **Test Labs are expected to grow:** Looking at the below annual growth projection, there is growth in a 10, 25 and 32 device lab, based the pace in which new devices that are introduced in the market. What we see is an annual introduction of around 15 leading devices per year with an average retirement of 5-7 per year due to decreased usage, terminated support by vendor etc. Integrating these numbers into the 30%-80% model growth test coverage numbers, as demonstrated in the following graph.

Lab Size Annual Growth



Galaxy S7 Galaxy S7 Edge

2017 Projections

Market Insights and Recommendations

As this is the 1st Index that opens 2017, here are the most important market events that needs to be known to both Dev and QA teams in both Mobile, Web need to keep in mind.

New Players

The most significant player that joins the mobile space in 2017 is Nokia. After struggling for many years to become a relevant vendor in the mobile space and being unsuccessful under the Windows Phone brand, Nokia is now back in the game with a new series of Android devices including the Nokia 6, launched in China in January. Other models are slated to be introduced during MWC 2017.

NOKIA

A 2nd player that will be penetrating the mobile market is Microsoft, who will be introducing the first Microsoft Surface Phone during H1 2017.

 **Microsoft**

Innovative Technologies

During 2017, the market will continue to see the current transformation grow with more IoT devices, smartwatches and other features from both Google and Apple in mobile, automotive, and even smart home digital user experiences. In addition, we might see the 1st foldable touch smartphone from Samsung under the name of "Samsung X".

Key Device Launches

The following devices are scheduled to appear this year, listed along with some of their key features.

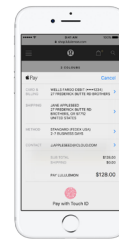
- **Samsung S8/S8 Edge** flagship devices from Samsung are **due by February 2017**, and should be the successors of the highly

The S7 will be replaced in early 2017



successful S7/S7 Edge devices

- **iPhone 8/iPhone 8 Plus together with iOS 11 launch in mid-September 2017** will mark the 10th year anniversary for Apple's



The iPhone 7/7Plus gets an upgrade in September 2017

iPhone series. This release is expected to be especially groundbreaking.

- **Huawei Mate 9/Mate 9 Pro** and in general the Huawei smartphone space is continuing its global growth. 2017 should continue their growth trend both in China and India, but also as seen in this Index report in many European countries where we see today devices like Huawei P8, P9, and others used today.



Global growth for the Huawei Mate 9/ Mate 9 Pro

- **iPad Pro Mini** – the new iOS tablet is expected to **launch in March** and perhaps replace the legacy iPad Air tablet series with a new

The iPad Pro mini gets an update in 2017



10.5" screen size, and with that, to join the existing iPad Pro series that is out there already.

- Like any other year, in 2017 we shall expect key vendors such as HTC, LG and Motorola to release the next inline smartphones and in the market calendar we see indeed LG G6, HTC11, and a Motorola series of devices in the plans.



The Importance of User Condition Testing

When testing a mobile app, teams must consider the real world conditions that impact user experiences.

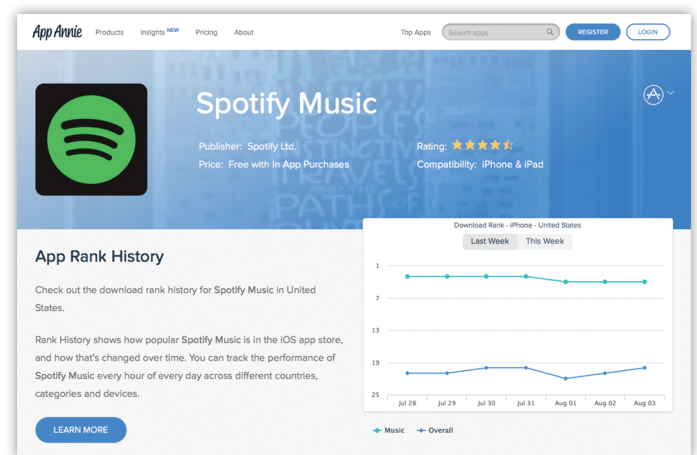
Mimicking the following real world user conditions in your testing is an essential way to deliver high-quality apps.

- Geographical location
- Device and operating systems commonly used in these geographies
- Most-used mobile apps running in the background
- Network conditions
- Interruptions happening while your app is in use (calls, messages, other popups)

If testing and development teams can mimic such conditions in the build and testing phase of the app, it helps them assess how their mobile app will perform under real world conditions. Getting early feedback about the impact of user conditions prior to app release will ultimately improve your app's customer loyalty and app store ratings.

In this edition of the Index report, we've partnered with [App Annie](#) to help teams get closer to replicating their customers' environments. App Annie, through their MAU (monthly active users) rankings, has provided us with the most-used Android native mobile apps during Q2 2016 for six different countries (U.S., UK, Germany, Canada, Brazil, Australia) across four categories (media and entertainment, retail, social media and games). These helpful lists narrow down the enormous app market to just the main apps you need to test against. Our recommendation is to install the top 16 apps highlighted in the report for your country, and launch them on the device/OS mix recommended

in the report's mobile device index. It's likely your users will have these apps running in the background and consuming CPU, memory, battery, camera and GPS.



* Spotify is a common most-used app.

The benefits of applying user conditions to your test plan:

- Your app will perform well in unpredictable user environments
- You will identify user condition issues related to app performance and address them before releasing your app
- You'll enhance your customers' user experience, improve app store app ratings and meet your company's business goals.

"When testing how other apps running in the background will impact your app's performance, it's essential to test the right apps across devices, regions, and categories. It's not enough to rely on downloads since apps no longer available in the app store and device-specific pre-installed apps can impact the user experience. For example, Germany had 3 different Amazon apps ranked high in the retail category for active users in the report, because people continued using older versions of the app that were unavailable to download for more than 18 months."

Amir Ghodrati, Senior Manager of Marketing Insights
App Annie



Social

App Annie Rank MAU	App Name
1	 Facebook
2	 Facebook Messenger
3	 Instagram
4	 Google+
5	 Snapchat
6	 Pinterest
7	 Twitter
8	 Hangouts
9	 Verizon Messages
10	 Skype

Media and Entertainment

App Annie Rank MAU	App Name
1	 YouTube
2	 Pandora Radio
3	 Google Play Music
4	 Samsung Music
5	 Netflix
6	 Google Play Games
7	 Spotify
8	 Flipboard
9	 IMDb Movies and TV
10	 Briefing for Samsung

Games

App Annie Rank MAU	App Name
1	 Candy Crush Saga
2	 Words With Friends
3	 Clash of Clans
4	 Candy Crush Soda Saga
5	 MobilityWare Solitaire
6	 Clash Royale
7	 slither.io
8	 Color Switch
9	 Trivia Crack
10	 Candy Crush Jelly Saga

Retail

App Annie Rank MAU	App Name
1	 Amazon
2	 Amazon Shopping
3	 Walmart
4	 Cartwheel
5	 Wish
6	 Walgreens
7	 Etsy
8	 Kohl's
9	 The Home Depot
10	 Kroger



Social

App Annie Rank MAU	App Name
1	 WhatsApp Messenger
2	 Facebook
3	 Facebook Messenger
4	 Instagram
5	 Twitter
6	 Google+
7	 Snapchat
8	 Skype
9	 Hangouts
10	 Pinterest

Media and Entertainment

App Annie Rank MAU	App Name
1	 YouTube
2	 BBC News
3	 Samsung Music
4	 Google Play Music
5	 Spotify
6	 BBC Media Player
7	 Google Play Games
8	 Briefing for Samsung
9	 Flipboard
10	 BBC iPlayer

Games

App Annie Rank MAU	App Name
1	 Candy Crush Saga
2	 Color Switch
3	 Candy Crush Soda Saga
4	 Clash of Clans
5	 MobilityWare Solitaire
6	 8 Ball Pool
7	 Candy Crush Jelly Saga
8	 Clash Royale
9	 Words With Friends
10	 slither.io

Retail

App Annie Rank MAU	App Name
1	 Amazon Shopping
2	 Amazon
3	 Argos
4	 Tesco Groceries
5	 Wish
6	 Boots
7	 ASDA
8	 ALDI UK
9	 Lidl
10	 ASOS



Social

App Annie Rank MAU	App Name
1	 WhatsApp Messenger
2	 Facebook
3	 Facebook Messenger
4	 Google+
5	 Instagram
6	 Skype
7	 Snapchat
8	 Hangouts
9	 Twitter
10	 Pinterest

Media and Entertainment

App Annie Rank MAU	App Name
1	 YouTube
2	 Samsung Music
3	 Google Play Music
4	 Google Play Games
5	 Shazam
6	 Spotify
7	 SPIEGEL ONLINE
8	 Flipboard
9	 Amazon Music
10	 kicker - Football News

Games

App Annie Rank MAU	App Name
1	 Candy Crush Saga
2	 QuizClash
3	 Clash of Clans
4	 Candy Crush Soda Saga
5	 Clash Royale
6	 QuizClash
7	 4 Pics 1 Word
8	 Candy Crush Jelly Saga
9	 Farm Heroes Saga
10	 Piano Tiles 2

Retail

App Annie Rank MAU	App Name
1	 Amazon Shopping
2	 Amazon DE
3	 Amazon
4	 Lidl
5	 Zalando
6	 H&M
7	 ALDI SUD
8	 Tchibo
9	 Wish
10	 OTTO

*Android Phone, Q2 2016

*Games category data is taken from Google Play. Social, Retail, Media and Entertainment categories data is provided by App Annie.



Social

App Annie Rank MAU	App Name
1	 Facebook
2	 Facebook Messenger
3	 Instagram
4	 WhatsApp Messenger
5	 Snapchat
6	 Google+
7	 Twitter
8	 Skype
9	 Hangouts
10	 Pinterest

Media and Entertainment

App Annie Rank MAU	App Name
1	 YouTube
2	 Google Play Music
3	 Samsung Music
4	 Spotify
5	 Netflix
6	 Google Play Games
7	 Shazam
8	 Briefing for Samsung
9	 Flipboard
10	 Cineplex Scene

Games

App Annie Rank MAU	App Name
1	 Candy Crush Saga
2	 Clash of Clans
3	 Candy Crush Soda Saga
4	 Clash Royale
5	 MobilityWare Solitaire
6	 Candy Crush Jelly Saga
7	 Color Switch
8	 slither.io
9	 Boom Beach
10	 Stack

Retail

App Annie Rank MAU	App Name
1	 Amazon Shopping
2	 Canadian Tire Retail
3	 AliExpress
4	 Wish
5	 Costco Canada
6	 Etsy
7	 Amazon
8	 Best Buy Canada
9	 7-Eleven
10	 SAQ

*Android Phone, Q2 2016

*Games category data is taken from Google Play. Social, Retail, Media and Entertainment categories data is provided by App Annie.



Social

App Annie Rank MAU	App Name
1	 WhatsApp Messenger
2	 Facebook
3	 Facebook Messenger
4	 Instagram
5	 Telegram
6	 Google+
7	 Snapchat
8	 Hangouts
9	 Skype
10	 Twitter

Media and Entertainment

App Annie Rank MAU	App Name
1	 YouTube
2	 Google Play Music
3	 Google Play Games
4	 Spotify
5	 Netflix
6	 Samsung Music
7	 Shazam
8	 Flipboard
9	 Google Play Movies and TV
10	 Samsung Video (S4, Note3)

Games

App Annie Rank MAU	App Name
1	 CartolaFC
2	 Candy Crush Saga
3	 Clash of Clans
4	 Candy Crush Soda Saga
5	 Clash Royale
6	 Farm Heroes Saga
7	 Subway Surfers
8	 Candy Crush Jelly Saga
9	 slither.io
10	 Piano Tiles 2

Retail

App Annie Rank MAU	App Name
1	 AliExpress
2	 Americanas
3	 Submarino
4	 Wish
5	 Netshoes
6	 Privalia ES
7	 DAFITI
8	 Kanui
9	 Amazon Shopping
10	 Magazine Luiza

*Android Phone, Q2 2016

*Games category data is taken from Google Play. Social, Retail, Media and Entertainment categories data is provided by App Annie.



Social

App Annie Rank MAU	App Name
1	 Facebook
2	 Facebook Messenger
3	 WhatsApp Messenger
4	 Instagram
5	 Google+
6	 Snapchat
7	 Skype
8	 Viber
9	 Twitter
10	 Hangouts

Media and Entertainment

App Annie Rank MAU	App Name
1	 YouTube
2	 Samsung Music
3	 Google Play Music
4	 Spotify
5	 Shazam
6	 Google Play Games
7	 Flipboard
8	 Netflix
9	 Briefing for Samsung
10	 AFL Live Official App

Games

App Annie Rank MAU	App Name
1	 Candy Crush Saga
2	 Candy Crush Soda Saga
3	 Clash of Clans
4	 MobilityWare Solitaire
5	 Clash Royale
6	 Words With Friends
7	 Candy Crush Jelly Saga
8	 Color Switch
9	 Boost Juice Free The Fruit
10	 slither.io

Retail

App Annie Rank MAU	App Name
1	 Woolworths
2	 CatchOfTheDay
3	 ALDI Australia
4	 Coles
5	 AliExpress
6	 Wish
7	 Etsy
8	 Ozsale
9	 Dan Murphy's
10	 Geek

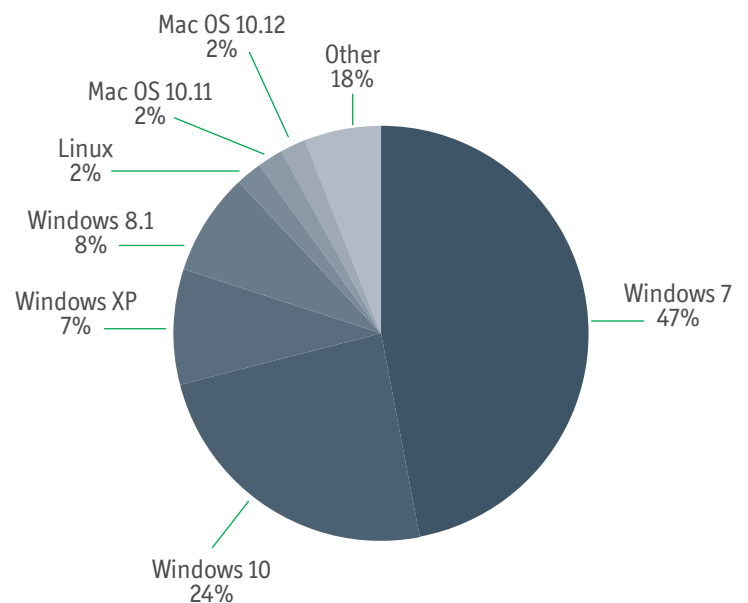
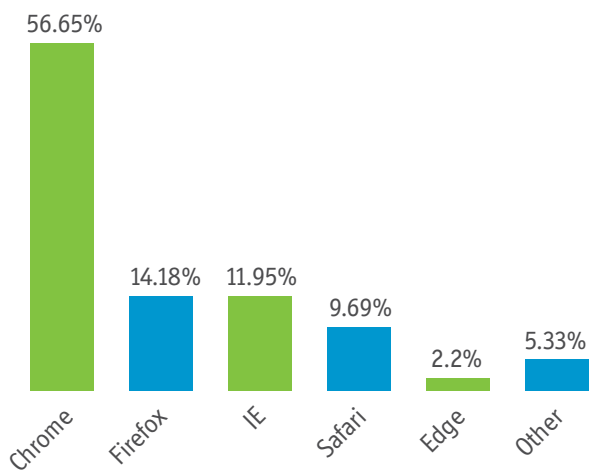
*Android Phone, Q2 2016

*Games category data is taken from Google Play. Social, Retail, Media and Entertainment categories data is provided by App Annie.

Web Test Coverage – Global

	Firefox	Chrome	Safari	IE	Edge
Browser Versions	51 (Latest)	56 (Latest)	10 (2016)	11	Edge 14, Aug 2016
	50 (Previous)	55 (Previous)	9 (2015)	9	
	52 (Beta)	57 (beta)		8	
Browser Version/OS Combinations	51 x Win 7	56 x Win 7	10 x Sierra	11x win 7	Edge 14 x Win 10
	51 x Win 8.1	56 x Win 8.1	9 x El-Capitan	11 x Win 8.1	
	51 x Win 10	56 x Win 10	9 x Yosemite	11 x Win 10	
	50 x Win 7	56 x Mac Sierra		9 x Win 7	
	50 x Win 8.1	56 x Mac El-Capitan		8 x Win 7	
	50 x Win 10	55 x Win 7			
	52 x Win 7	55 x Win 8.1			
	52 x Win 8.1	55 x Win 10			
	52 x Win 10	55 x Mac Sierra			
		55 x Mac El-Capitan			
		57 x Win 7			
		57 x Win 8.1			
		57 x Win 10			
		57 x Mac Sierra			

Top 5 Desktop, Table & Console Browsers from June 2015 to June 2016





Essential

Device Name	Screen Size	Screen Resolution	PPI (Pixel Per Inch)	Release Date	Recommended OS Version
Apple iPhone 6 =	4.7"	750 x 1334	326	Sep-2014	iOS 10.2
Apple iPhone 5S ↑	4.0"	640 x 1136	326	Sep-2013	iOS 10.2
Samsung Galaxy S6 ↓	5.1"	1440 x 2560	515	Apr-2015	Android 6.0.1
Apple iPhone 6 Plus =	5.5"	1080 x 1920	401	Sep-2014	iOS 10.2
Samsung Galaxy S5 ↑	5.1"	1080 x 1920	432	Apr-2014	Android 6.0.1
Apple iPhone 6S ↑	4.7"	750 x 1334	326	Sep-2015	iOS 10.0.2
Samsung Galaxy Note 5 =	5.67"	1440 x 2560	515	Aug-2015	Android 6.0.1
Apple iPad 2 ↓	9.7"	1024 x 768	132	Mar-2011	iOS 9.3.5
Google Nexus 6P = [REF]	5.7"	1440 x 2560	518	Oct-2015	Android 7.1.1
Samsung Galaxy S4 ↓	5.0"	1080 x 1920	440	Apr-2013	Android 5.0.1

Enhanced

Samsung Galaxy S7 ↑	5.1"	1440 x 2560	577	Mar-2016	Android 6.0.1
Apple iPhone 5C ↑	4.0"	640 x 1136	326	Sep-2012	iOS 10.2
Apple iPhone 7 ↑	4.7"	750 x 1334	326	Sep-2016	iOS 10.2
Samsung Galaxy Tab S2 ↑	9.7"	1536 x 2048	264	Sep-2015	Android 5.0.2
Apple iPad Air 2 ↑	9.7"	2048 x 1536	264	Oct-2014	iOS 10.2
Apple iPhone 6S Plus ↓	5.5"	1080 x 1920	401	Sep-2014	iOS 10.2
Samsung Galaxy S7 Edge ↑	5.5"	1440 x 2560	534	Mar-2016	Android 6.0.1
Apple iPad mini ↓	7.9"	1024 x 768	162	Nov-2012	iOS 10.2
Samsung Galaxy S6 Edge ↑	5.1"	1440 x 2560	515	Apr-2015	Android 6.0.1
Samsung Galaxy Note 4 ↑	5.7"	1440 x 2560	515	Sep-2014	Android 5.0.1
Apple iPhone 4S ↓	3.5"	640 x 960	330	Oct-2011	iOS 9.3.5
Apple iPad Air ↓	9.7"	2048 x 1536	264	Oct-2013	iOS 9.3.5
Apple iPad 4 ↓	9.7"	2048 x 1536	264	Nov-2012	iOS 10.2
Apple iPad mini 2 ↓	7.9"	2048 x 1536	324	Nov-2013	iOS 10.2
Motorola Droid Turbo ↓	5.2"	1440 x 2560	565	Oct-2014	Android 5.1

Extended

Samsung Galaxy Tab 4 ↑	10.1"	800 x 1280	149	Feb-2014	Android 5.0.2
Samsung Galaxy Grand Prime ↑	5.0"	540 x 960	220	Oct-2014	Android 5.1.1
iPad Pro ↑	12.9"	2048 x 2732	264	Nov-2015	iOS 10.2
Samsung Galaxy S6 Edge Plus NEW	5.7"	1440 x 2560	518	Aug-2015	Android 6.0.1
Apple iPhone 7 Plus NEW	5.5"	1080 x 1920	401	Sep-2016	iOS 10.2
Google Pixel NEW	5.0"	1080 x 1920	441	Oct-2016	Android 7.1.1
LG V20 NEW	5.7"	1440 x 2560	513	Oct-2016	Android 7.0



Essential

Device Name	Screen Size	Screen Resolution	PPI (Pixel Per Inch)	Release Date	Recommended OS Version
Apple iPhone 6 =	4.7"	750 x 1334	326	Sep-2014	iOS 10.2
Samsung Galaxy S6 ↑	5.1"	1440 x 2560	515	Apr-2015	Android 6.0.1
Apple iPhone 5S ↑	4.0"	640 x 1136	326	Sep-2013	iOS 9.3.5
Apple iPhone 5C ↑	4.0"	640 x 1136	326	Sep-2012	iOS 10.2
Samsung Galaxy S4 ↓	5.0"	1080 x 1920	440	Apr-2013	Android 5.0.1
Apple iPhone 6 Plus ↑	5.5"	1080 x 1920	401	Sep-2014	iOS 9.3.5
Samsung Galaxy S7 ↑	5.1"	1440 x 2560	577	Mar-2016	Android 6.0.1
Apple iPhone 4S ↑	3.5"	640 x 960	330	Oct-2011	iOS 9.3.5
Google Nexus 6P NEW [REF]	5.7"	1440 x 2560	518	Oct-2015	Android 7.1.1
Apple iPhone 6S ↑	4.7"	750 x 1334	326	Sep-2015	iOS 10.2

Enhanced

Apple iPad mini ↑	7.9"	1024 x 768	162	Nov-2012	iOS 10.2
Samsung Galaxy S5 neo ↑	5.1"	1080 x 1920	432	Aug-2015	Android 5.1.1
Samsung Galaxy S5 ↓	5.1"	1080 x 1920	432	Apr-2014	Android 5.1.1
Apple iPhone 5 ↑	4.0"	640 x 1136	326	Sep-2012	iOS 10.2
LG G3 ↓	5.5"	1440 x 2560	515	Jun- 2014	Android 6.0
Apple iPad 2 ↓	9.7"	1024 x 768	132	Mar-2011	iOS 9.3.5
LG G4 ↓	5.5"	1440 x 2560	515	Apr-2015	Android 5.1
Apple iPhone 7 ↑	4.7"	750 x 1334	326	Sep-2016	iOS 10.2
Samsung Galaxy Grand Prime ↑	5.0"	540 x 960	220	Oct-2014	Android 5.1.1
Samsung Galaxy Note 4 ↑	5.7"	1440 x 2560	515	Sep-2014	Android 5.1.1
Apple iPad Air ↑	9.7"	2048 x 1536	264	Oct-2013	iOS 9.3.5
Samsung Galaxy S6 Edge ↑	5.1"	1440 x 2560	515	Apr-2015	Android 6.0.1
Samsung Galaxy Tab 4 ↑	10.1"	800 x 1280	149	Feb-2014	Android 5.0.2
Apple iPad 4 ↑	9.7"	2048 x 1536	264	Nov-2012	iOS 10.2
Apple iPhone 6S Plus ↑	5.5"	1080 x 1920	401	Sep-2014	iOS 10.2

Extended

Apple iPad Air 2 ↑	9.7"	2048 x 1536	264	Oct-2014	iOS 10.2
Samsung Galaxy Avant NEW	4.5"	540 x 960	245	Jul-2014	Android 4.4.2
Samsung Galaxy S7 Edge ↑	5.5"	1440 x 2560	534	Mar-2016	Android 6.0.1
Apple iPad mini 2 ↑	7.9"	2048 x 1536	324	Nov-2013	iOS 10.2
iPad Pro ↑	12.9"	2048 x 2732	149	Nov-2015	iOS 10.2
Apple iPhone 7 Plus NEW	5.5"	1080 x 1920	401	Sep-2016	iOS 10.2
Motorola Moto X Play NEW	5.5"	1080 x 1920	403	Aug-2015	Android 6.0.1



Essential

Device Name	Screen Size	Screen Resolution	PPI (Pixel Per Inch)	Release Date	Recommended OS Version
Samsung Galaxy Duos J5 (J500) NEW	5.0"	720 x 1280	294	Jun-2015	Android 6.0.1
Motorola Moto G4 Plus (XT1640) ↑	5.5"	1080 x 1920	401	May-2016	Android 6.0.1
LG K10 (K430) NEW	5.3"	720 x 1280	277	Jan-2016	Android 5.1.1
Motorola Moto G 3rd Gen ↑	5.0"	720 x 1280	294	Jul-2015	Android 5.1.1
iPhone 6 ↑	4.7"	750 x 1334	326	Sep-2014	iOS 10.2
Samsung Galaxy S5 ↓	5.1"	1080 x 1920	432	Apr-2014	Android 5.0
Samsung Galaxy S6 ↓	5.1"	1440 x 2560	515	Apr-2015	Android 6.0.1
Motorola Moto X Force ↓	5.4"	1440 x 2560	540	Nov-2015	Android 5.1.1
Motorola Moto G ↓	4.5"	720 x 1280	326	Nov-2013	Android 5.0
Google Nexus 5X = [REF]	5.0"	1080 x 1920	424	Oct-2015	Android 7.1.1

Enhanced

Motorola Moto X Play NEW	5.5"	1080 x 1920	403	Aug-2015	Android 5.1.1
LG G4 ↓	5.5"	1440 x 2560	515	Apr-2015	Android 6.0
Samsung Galaxy S4 ↓	5.0"	1080 x 1920	440	Apr-2013	Android 5.0.1
iPhone SE NEW	4.0"	640 x 1136	326	Mar-2016	iOS 10.2
Alcatel One Touch Pixi3 ↑	4.5"	480 x 854	218	May-2015	Android 4.4.2
Samsung Galaxy Note 5 ↓	5.67"	1440 x 2560	515	Aug-2015	Android 6.0.1
iPhone 5S ↓	4.0"	640 x 1136	326	Sep-2013	iOS 10.2
LG G5 ↑	5.3"	1440 x 2560	554	Apr-2016	Android 6.0.1
Samsung Galaxy S6 Edge ↓	5.1"	1440 x 2560	515	Apr-2015	Android 6.0.1
Samsung Galaxy Note Tab (P605) ↑	10.1"	2560 x 1600	299	Oct-2013	Android 5.1.1
iPad 2 ↓	9.7"	1024 x 768	132	Mar-2011	iOS 9.3.5
LG K4 ↑	4.5"	480 x 854	218	Feb-2016	Android 5.1.1
Samsung Galaxy S7 ↑	5.1"	1440 x 2560	577	Feb-2016	Android 6.0.1
Apple iPad mini 2 ↑	7.9"	2048 x 1536	324	Nov-2013	iOS 10.2
Samsung Galaxy A5 ↑	5.0"	720 x 1280	294	Dec-2014	Android 5.0.2

Extended

iPhone 6S ↓	4.7"	750 x 1334	326	Sep-2015	iOS 10.2
Apple iPad Air 2 ↑	9.7"	2048 x 1536	264	Oct-2014	iOS 10.2
Samsung Galaxy S7 Edge ↑	5.5"	1440 x 2560	534	Feb-2016	Android 6.0.1
Apple iPhone 7 NEW	4.7"	750 x 1334	326	Sep-2016	iOS 10.2
Motorola Moto Z Play (XT1635M) NEW	5.5"	1080 x 1920	441	Oct-2016	Android 6.0.1
Samsung Galaxy J1 Mini NEW	4.0"	480 x 800	233	Feb-2016	Android 5.1
Apple iPhone 5 ↓	4.0"	640 x 1136	326	Sep-2012	iOS 10.2

*Some devices/OS combinations may not be commercially available. See Note on page 4.



Essential

Device Name	Screen Size	Screen Resolution	PPI (Pixel Per Inch)	Release Date	Recommended OS Version
Apple iPhone 6 =	4.7"	750 x 1334	326	Sep-2014	iOS 10.2
Samsung Galaxy S6 ↑	5.1"	1440 x 2560	515	Apr-2015	Android 6.0.1
Apple iPhone 5S ↑	4.0"	640 x 1136	326	Sep-2013	iOS 10.2
Samsung Galaxy S6 Edge ↑	5.1"	1440 x 2560	515	Apr-2015	Android 6.0.1
Apple iPhone 5C ↑	4.0"	640 x 1136	326	Sep-2013	iOS 10.2
Samsung Galaxy S5 ↓	5.1"	1080 x 1920	432	Apr-2014	Android 6.0.1
Apple iPad 2 ↑	9.7"	1024 x 768	132	Mar-2011	iOS 9.3.5
LG Nexus 5x [REF]	5.2"	1080x1920	423	Sep-2015	Android 7.1.1
Apple iPhone 6 Plus ↑	5.5"	1080 x 1920	401	Sep-2014	iOS 9.3.5
Apple iPhone 6S ↑	4.7"	750x1334	326	Sep-2015	iOS 10.2

Enhanced

Apple iPad mini ↓	7.9"	1024 x 768	162	Nov-2012	iOS 10.2
Apple iPhone 5 ↑	4.0"	640 x 1136	326	Sep-2012	iOS 10.2
Samsung Galaxy S7 Edge ↑	5.5"	1440 x 2560	534	Feb-2016	Android 6.0.1
Samsung Galaxy J5 Duos NEW	5.0"	720 x 1280	294	Jun-2015	Android 5.1
Apple iPhone 4S ↑	3.5"	640 x 960	330	Oct-2011	iOS 9.3.5
Apple iPhone 6S Plus ↓	5.5"	1080x1920	401	Sep-2015	iOS 10.2
Apple iPad Air ↑	9.7"	2048 x 1536	264	Oct-2013	iOS 9.3.5
Samsung Galaxy S7 ↑	5.1"	1440 x 2560	577	Feb-2016	Android 6.0.1
Samsung Galaxy S4 ↓	5.0"	1080 x 1920	440	Apr-2013	Android 5.0.1
Apple iPad Air 2 ↓	9.7"	2048 x 1536	264	Oct-2014	iOS 9.3.5
Samsung Galaxy S4 mini ↑	4.3"	540 x 960	256	Jul-2013	Android 4.4.2
Samsung Galaxy A3 ↑	4.5"	540 x 960	245	Dec-2014	Android 5.0.2
Samsung Galaxy Note 4 =	5.7"	1440 x 2560	515	Sep-2014	Android 6.0.1
Samsung Galaxy S3 neo ↑	4.8"	720 x 1280	306	May-2014	Android 4.4.2
Samsung Galaxy Grand Prime ↑	5.0"	540 x 960	220	Oct-2014	Android 5.1.1

Extended

Apple iPad 4 ↑	9.7"	2048 x 1536	264	Nov-2012	iOS 10.2
Samsung Galaxy Tab A ↓	9.7"	768 x 1024	131	May-2015	Android 6.0.1
Apple iPad mini 2 ↓	7.9"	2048 x 1536	324	Nov-2013	iOS 10.2
Samsung Galaxy Note 5 =	5.67"	1440 x 2560	515	Aug-2015	Android 6.0.1
Samsung Galaxy Core Prime NEW	4.5"	480 x 800	207	Nov-2014	Android 4.4.4
Apple iPhone 7 NEW	4.7"	750 x 1334	326	Sep-2016	iOS 10.2
Samsung Galaxy Tab 4 ↓	10.1"	800 x 1280	149	Jun-2014	Android 5.0.2

*Some devices/OS combinations may not be commercially available. See Note on page 4.



Essential

Device Name	Screen Size	Screen Resolution	PPI (Pixel Per Inch)	Release Date	Recommended OS Version
Apple iPhone 6 	4.7"	750 x 1334	326	Sep-2014	iOS 10.2
Samsung Galaxy S6 	5.1"	1440 x 2560	515	Apr-2015	Android 6.0.1
Apple iPhone 5C 	4.0"	640 x 1136	326	Sep-2013	iOS 10.2
Samsung Galaxy S6 Edge 	5.1"	1440 x 2560	515	Apr-2015	Android 6.0.1
Apple iPhone 5S 	4.0"	640 x 1136	326	Sep-2013	iOS 10.2
Samsung Galaxy S7 NEW	5.1"	1440 x 2560	577	Feb-2016	Android 6.0.1
Apple iPad 2 	9.7"	1024 x 768	132	Mar-2011	iOS 9.3.5
Apple iPhone 6S 	4.7"	750 x 1334	326	Sep-2015	iOS 10.2
LG Nexus 5x [REF]	5.2"	1080x1920	423	Sep-2015	Android 7.1.1
Apple iPhone 5 	4.0"	640 x 1136	326	Sep-2012	iOS 10.2

Enhanced

Samsung Galaxy S7 Edge 	5.5"	1440 x 2560	534	Mar-2016	Android 6.0.1
Apple iPhone 6 Plus 	5.5"	1080 x 1920	401	Sep-2014	iOS 9.3.5
Apple iPad Air 2 	9.7"	2048 x 1536	264	Oct-2014	iOS 10.2
Apple iPhone 4S 	3.5"	640 x 960	330	Oct-2011	iOS 9.3.5
Apple iPad mini 	7.9"	1024 x 768	162	Nov-2012	iOS 9.3.5
Samsung Galaxy J5 Duos 	5.0"	720 x 1280	294	Jun-2015	Android 5.1.1
Samsung Galaxy S5 	5.1"	1080 x 1920	432	Apr-2014	Android 6.0.1
Apple iPad Air 	9.7"	2048 x 1536	264	Oct-2013	iOS 9.3.5
Apple iPhone 7 	4.7"	750 x 1334	326	Sep-2016	iOS 10.2
Samsung Galaxy S4 	5.0"	1080 x 1920	440	Apr-2013	Android 5.0.1
Apple iPad 4 	9.7"	2048 x 1536	264	Nov-2012	iOS 10.2
iPhone SE NEW	4.0"	640 x 1136	326	Mar-2016	iOS 10.2
Google Pixel NEW	5.0"	1080 x 1920	441	Oct-2016	Android 7.1.1
Samsung Galaxy A3 	4.5"	540 x 960	245	Dec-2014	Android 5.0.2
Huawei P9 NEW	5.2"	1080 x 1920	423	Apr-2016	Android 6.0

Extended

Samsung Galaxy Note 4 	5.7"	1440 x 2560	515	Sep-2014	Android 6.0.1
Apple iPhone 6S Plus 	5.5"	1080 x 1920	401	Sep-2014	iOS 10.2
Samsung Galaxy Tab 3 	10.1"	800 x 1280	149	Jul-2013	Android 4.4.2
Samsung Galaxy S6 Edge Plus 	5.7"	1440 x 2560	518	Aug-2015	Android 5.1.1
Apple iPad mini 2 	7.9"	2048 x 1536	324	Nov-2013	iOS 10.2
Samsung Galaxy J3 NEW	5.0"	720 x 1280	294	Jan-2016	Android 5.1.1
Apple iPhone 7 Plus NEW	5.5"	1080 x 1920	401	Sep-2016	iOS 10.2



Essential

Device Name	Screen Size	Screen Resolution	PPI (Pixel Per Inch)	Release Date	Recommended OS Version
Apple iPhone 6 =	4.7"	750 x 1334	326	Sep-2014	iOS 10.2
Samsung Galaxy S6 ↑	5.1"	1440 x 2560	515	Apr-2015	Android 6.0.1
Samsung Galaxy S5 ↓	5.1"	1080 x 1920	432	Apr-2014	Android 5.0
Apple iPhone 5S =	4.0"	640 x 1136	326	Sep-2013	iOS 10.2
Samsung Galaxy S6 Edge ↓	5.1"	1440 x 2560	515	Apr-2015	Android 5.1.1
Apple iPhone 5 ↑	4.0"	640 x 1136	326	Sep-2012	iOS 10.2
Apple iPhone 6S ↑	4.7"	750 x 1334	326	Sep-2015	iOS 10.2
Samsung Galaxy S7 ↑	5.1"	1440 x 2560	577	Feb-2016	Android 6.0.1
Google Nexus 5X = [REF]	5.0"	1080 x 1920	424	Oct-2015	Android 7.1.1
Samsung Galaxy S4 ↑	5.0"	1080 x 1920	440	Apr-2013	Android 5.0.1

Enhanced

Apple iPhone 6 Plus ↑	5.5"	1080 x 1920	401	Sep-2014	iOS 10.2
Apple iPhone 4S ↑	3.5"	640 x 960	330	Oct-2011	iOS 9.3.5
Apple iPad mini ↑	7.9"	1024 x 768	162	Nov-2012	iOS 9.3.5
Samsung Galaxy S7 Edge ↑	5.5"	1440 x 2560	534	Mar-2016	Android 6.0.1
Apple iPad Air ↑	9.7"	2048 x 1536	264	Oct-2013	iOS 9.3.5
Samsung Galaxy S4 mini ↓	4.3"	540 x 960	256	Jul-2013	Android 4.4.2
Samsung Galaxy S3 Neo ↑	4.8"	720 x 1280	306	May-2014	Android 4.4.2
Samsung Galaxy J5 Duos ↑	5.0"	720 x 1280	294	Jun-2015	Android 5.1.1
Apple iPad Air 2 ↑	9.7"	2048 x 1536	264	Oct-2014	iOS 10.2
Apple iPad 2 ↓	9.7"	1024 x 768	132	Mar-2011	iOS 9.3.5
Samsung Galaxy Tab 4 ↑	10.1"	800 x 1280	149	Feb-2014	Android 5.0.2
Apple iPhone 7 NEW	4.7"	750 x 1334	326	Sep-2016	iOS 10.2
Samsung Galaxy A5 ↑	5.0"	720 x 1280	294	Dec-2014	Android 5.0.2
Sony Xperia Z3 Compact ↑	4.6"	720 x 1280	319	Sep-2014	Android 6.0.1
Samsung Galaxy S5 Neo NEW	5.1"	1080 x 1920	432	Aug-2015	Android 6.0.1

Extended

Samsung Galaxy S3 Mini ↓	4.0"	480 x 800	233	Nov-2012	Android 4.1.2
Apple iPad 4 ↑	9.7"	2048 x 1536	264	Nov-2012	iOS 10.2
Huawei P9 ↑	5.2"	1080 x 1920	423	Apr-2016	Android 6.0
Apple iPad mini 2 ↑	7.9"	2048 x 1536	324	Nov-2013	iOS 9.3.5
Google Pixel NEW	5.0"	1080 x 1920	441	Oct-2016	Android 7.1.1
LG G5 NEW	5.3"	1440 x 2560	554	Apr-2016	Android 7.0
Huawei P8lite ↑	5.0"	720 x 1280	294	May-2015	Android 6.0

*Some devices/OS combinations may not be commercially available. See Note on page 4.



Essential

Device Name	Screen Size	Screen Resolution	PPI (Pixel Per Inch)	Release Date	Recommended OS Version
Apple iPhone 6 	4.7"	750 x 1334	326	Sep-2014	iOS 10.2
Samsung Galaxy S6 	5.1"	1440 x 2560	515	Apr-2015	Android 6.0.1
Apple iPhone 5S 	4.0"	640 x 1136	326	Sep-2013	iOS 10.2
Samsung Galaxy S7 Edge 	5.5"	1440 x 2560	534	Feb-2016	Android 6.0.1
Apple iPhone 4S 	3.5"	640 x 960	330	Oct-2011	iOS 9.3.5
Samsung Galaxy S5 	5.1"	1080 x 1920	432	Apr-2014	Android 6.0.1
Apple iPhone 5 	4.0"	640 x 1136	326	Sep-2012	iOS 10.2
Samsung Galaxy S7 	5.1"	1440 x 2560	577	Feb-2016	Android 6.0.1
Samsung Galaxy S4 	5.0"	1080 x 1920	440	Apr-2013	Android 5.0.1
Google Nexus 5X = [REF]	5.0"	1080 x 1920	424	Oct-2015	Android 7.1.1

Enhanced

Apple iPhone 6S 	4.7"	750 x 1334	326	Sep-2015	iOS 10.2
Samsung Galaxy S6 Edge 	5.1"	1440 x 2560	515	Apr-2015	Android 5.1.1
Apple iPad 2 	9.7"	1024 x 768	132	Mar-2011	iOS 9.3.5
Apple iPhone 6 Plus 	5.5"	1080 x 1920	401	Sep-2014	iOS 10.2
Apple iPhone 5C 	4.0"	640 x 1136	326	Sep-2013	iOS 10.2
Samsung Galaxy S5 Neo NEW	5.1"	1080 x 1920	432	Aug-2015	Android 6.0.1
Samsung Galaxy S4 mini 	4.3"	540 x 960	256	Jul-2013	Android 4.4.2
Apple iPad Air 2 	9.7"	2048 x 1536	264	Oct-2014	iOS 10.2
Apple iPad Air 	9.7"	2048 x 1536	264	Oct-2013	iOS 9.3.5
Apple iPad mini 	7.9"	1024 x 768	162	Nov-2012	iOS 9.3.5
Apple iPhone 7 	4.7"	750 x 1334	326	Sep-2016	iOS 10.2
Samsung Galaxy A5 	5.0"	720 x 1280	294	Dec-2014	Android 5.0.2
Samsung Galaxy J5 Duos 	5.0"	720 x 1280	294	Jun-2015	Android 5.1.1
Apple iPad 4 	9.7"	2048 x 1536	264	Nov-2012	iOS 10.2
Samsung Galaxy S3 	4.8"	720 x 1280	306	May-2012	Android 4.3

Extended

Huawei P8lite 	5.0"	720 x 1280	294	May-2015	Android 6.0
Apple iPhone 6S Plus 	5.5"	1080 x 1920	401	Sep-2014	iOS 10.2
Samsung Galaxy Note 4 	5.7"	1440 x 2560	515	Sep-2014	Android 5.1.1
Samsung Galaxy Tab 4 	10.1"	800 x 1280	149	Feb-2014	Android 5.0.2
Google Pixel NEW	5.0"	1080 x 1920	441	Oct-2016	Android 7.1.1
Huawei P9 NEW	5.2"	1080 x 1920	423	Apr-2016	Android 6.0
LG G5 NEW	5.3"	1440 x 2560	554	Apr-2016	Android 7.0



Essential

Device Name	Screen Size	Screen Resolution	PPI (Pixel Per Inch)	Release Date	Recommended OS Version
Apple iPhone 6 =	4.7"	750 x 1334	326	Sep-2014	iOS 10.2
Samsung Galaxy S7 Edge ↑	5.5"	1440 x 2560	534	Feb-2016	Android 6.0.1
Apple iPhone 5S ↑	4.0"	640 x 1136	326	Sep-2013	iOS 10.2
Samsung Galaxy S6 Edge ↑	5.1"	1440 x 2560	515	Apr-2015	Android 6.0.1
Apple iPhone 6 Plus ↑	5.5"	1080 x 1920	401	Sep-2014	iOS 9.3.5
Apple iPhone 6S ↑	4.7"	750 x 1334	326	Sep-2015	iOS 10.2
Samsung Galaxy S6 ↑	5.1"	1440 x 2560	515	Apr-2015	Android 6.0.1
Apple iPad 2 ↑	9.7"	1024 x 768	132	Mar-2011	iOS 9.3.5
Google Nexus 5X = [REF]	5.0"	1080 x 1920	424	Oct-2015	Android 7.1.1
Apple iPad Air ↑	9.7"	2048 x 1536	264	Oct-2013	iOS 9.3.5

Enhanced

Samsung Galaxy S4 ↓	5.0"	1080 x 1920	440	Apr-2013	Android 5.0.1
Apple iPad mini =	7.9"	1024 x 768	162	Nov-2012	iOS 9.3.5
Apple iPad Air 2 ↑	9.7"	2048 x 1536	264	Oct-2014	iOS 9.3.5
Samsung Galaxy S7 ↑	5.1"	1440 x 2560	577	Feb-2016	Android 6.0.1
Apple iPhone 4S ↑	3.5"	640 x 960	330	Oct-2011	iOS 9.3.5
Samsung Galaxy S5 ↓	5.1"	1080 x 1920	432	Apr-2014	Android 6.0.1
Apple iPhone 5C ↑	4.0"	640 x 1136	326	Sep-2013	iOS 9.3.5
Apple iPad 4 ↑	9.7"	2048 x 1536	264	Nov-2012	iOS 10.0.2
Samsung Galaxy S4 mini ↑	4.3"	540 x 960	256	Jul-2013	Android 4.4.2
Apple iPhone 5 ↓	4.0"	640 x 1136	326	Sep-2012	iOS 10.2
Samsung Galaxy Tab 3 ↓	10.1"	800 x 1280	149	Jul-2013	Android 4.4.2
Apple iPhone 6S Plus ↓	5.5"	1080 x 1920	401	Sep-2014	iOS 10.0.2
Apple iPhone 7 ↑	4.7"	750 x 1334	326	Sep-2016	iOS 10.2
LG G5 NEW	5.3"	1440 x 2560	554	Apr-2016	Android 7.0
Huawei P9 NEW	5.2"	1080 x 1920	423	Apr-2016	Android 6.0

Extended

HTC 10 NEW	5.2"	1440 x 2560	565	Apr-2016	Android 6.0.1
Samsung Galaxy Tab A ↓	9.7"	768 x 1024	131	May-2015	Android 6.0.1
Apple iPad Pro NEW	9.7"	1536 x 2048	264	Mar-2016	iOS 10.2
Samsung Galaxy A5 ↓	5.0"	720 x 1280	294	Dec-2014	Android 5.0.2
Samsung Galaxy Note 4 ↑	5.7"	1440 x 2560	515	Sep-2014	Android 5.1.1
Sony Xperia Z3 Compact ↓	4.6"	720 x 1280	319	Sep-2014	Android 5.1.1
Samsung Galaxy S6 Edge Plus NEW	5.7"	1440 x 2560	518	Jun-2015	Android 6.0.1



Essential

Device Name	Screen Size	Screen Resolution	PPI (Pixel Per Inch)	Release Date	Recommended OS Version
Apple iPhone 6 ↑	4.7"	750 x 1334	326	Sep-2014	iOS 10.2
Samsung Galaxy J5 Duos ↑	5.0"	720 x 1280	294	Jun-2015	Android 5.1.1
Apple iPhone 5S ↑	4.0"	640 x 1136	326	Sep-2013	iOS 10.2
Samsung Galaxy S3 Neo ↑	4.8"	720 x 1280	306	May-2014	Android 4.4.4
Apple iPhone 4S ↑	3.5"	640 x 960	330	Oct-2011	iOS 9.3.5
Samsung Galaxy Grand Neo ↑	5.0"	480 x 800	186	Feb-2014	Android 4.2
Samsung Galaxy S6 ↓	5.1"	1440 x 2560	515	Apr-2015	Android 5.1.1
Apple iPhone 5 ↑	4.0"	640 x 1136	326	Sep-2012	iOS 9.3.5
Google Nexus 5X = [REF]	5.0"	1080 x 1920	424	Oct-2015	Android 7.1.1
Apple iPad 2 ↓	9.7"	1024 x 768	132	Mar-2011	iOS 9.3.5

Enhanced

Samsung Galaxy S6 Edge ↓	5.1"	1440 x 2560	515	Apr-2015	Android 6.0.1
Samsung Galaxy S7 ↑	5.1"	1440 x 2560	577	Feb-2016	Android 6.0.1
Apple iPhone 6S ↑	4.7"	750 x 1334	326	Sep-2015	iOS 10.2
Samsung Galaxy S4 ↑	5.0"	1080 x 1920	440	Apr-2013	Android 5.0.1
Apple iPhone 6 Plus ↓	5.5"	1080 x 1920	401	Sep-2014	iOS 10.2
Samsung Galaxy S5 ↓	5.1"	1080 x 1920	432	Apr-2014	Android 6.0.1
Huawei P8lite ↑	5.0"	720 x 1280	294	May-2015	Android 6.0
Samsung Galaxy S7 Edge NEW	5.5"	1440 x 2560	534	Feb-2016	Android 6.0.1
Apple iPad mini ↑	7.9"	1024 x 768	162	Nov-2012	iOS 9.3.5
Samsung Galaxy Note 4 ↑	5.7"	1440 x 2560	515	Sep-2014	Android 6.0.1
Samsung Galaxy Tab 4 ↑	10.1"	800 x 1280	149	Feb-2014	Android 5.0.2
Apple iPhone 5C ↑	4.0"	640 x 1136	326	Sep-2013	iOS 10.2
Apple iPad Air 2 ↓	9.7"	2048 x 1536	264	Oct-2014	iOS 10.2
Samsung Galaxy S4 mini ↓	4.3"	540 x 960	256	Jul-2013	Android 4.4.2
Apple iPhone 6S Plus ↓	5.5"	1080 x 1920	401	Sep-2014	iOS 10.0.2

Extended

Apple iPhone 7 NEW	4.7"	750 x 1334	326	Sep-2016	iOS 10.2
Samsung Galaxy S3 ↓	4.8"	720 x 1280	306	May-2012	Android 4.3
Huawei P9lite NEW	5.2"	1080 x 1920	424	Apr-2016	Android 6.0
Apple iPad 4 ↑	9.7"	2048 x 1536	264	Nov-2012	iOS 10.0.2
LG G5 NEW	5.3"	1440 x 2560	554	Apr-2016	Android 7.0
Apple iPad Air ↓	9.7"	2048 x 1536	264	Oct-2013	iOS 9.3.5
Samsung Galaxy Tab A ↓	9.7"	768 x 1024	313	May-2015	Android 6.0.1



Essential

Device Name	Screen Size	Screen Resolution	PPI (Pixel Per Inch)	Release Date	Recommended OS Version
Apple iPhone 6 ↑	4.7"	750 x 1334	326	Sep-2014	iOS 10.2
Samsung Galaxy S6 ↑	5.1"	1440 x 2560	515	Apr-2015	Android 6.0.1
Apple iPhone 5S =	4.0"	640 x 1136	326	Sep-2013	iOS 10.2
Apple iPhone 5 ↑	4.0"	640 x 1136	326	Sep-2012	iOS 9.3.5
Samsung Galaxy S4 ↓	5.0"	1080 x 1920	440	Apr-2013	Android 5.0.1
Samsung Galaxy J5 Duos ↑	5.0"	720 x 1280	294	Jun-2015	Android 5.1.1
Samsung Galaxy Grand Prime ↑	5.0"	540 x 960	220	Oct-2014	Android 5.1.1
Apple iPhone 4S ↑	3.5"	640 x 960	330	Oct-2011	iOS 9.3.5
Google Nexus 5X = [REF]	5.0"	1080 x 1920	424	Oct-2015	Android 7.1.1
Samsung Galaxy S5 ↑	5.1"	1080 x 1920	432	Apr-2014	Android 6.0.1

Enhanced

Huawei P8lite ↑	5.0"	720 x 1280	294		Android 6.0
Apple iPad 2 ↑	9.7"	1024 x 768	132	Mar-2011	iOS 9.3.5
Samsung Galaxy Grand Neo ↑	5.0"	480 x 800	186	Feb-2014	Android 4.4.4
Apple iPhone 6S ↓	4.7"	750 x 1334	326	Sep-2015	iOS 10.2
Samsung Galaxy S7 Edge ↑	5.5"	1440 x 2560	534	Feb-2016	Android 6.0.1
Apple iPhone 6 Plus ↑	5.5"	1080 x 1920	401	Sep-2014	iOS 10.2
Apple iPad Air ↑	9.7"	2048 x 1536	264	Oct-2013	iOS 9.3.5
Apple iPad mini ↑	7.9"	1024 x 768	162	Nov-2012	iOS 9.3.5
Samsung Galaxy S7 ↑	5.1"	1440 x 2560	577	Feb-2016	Android 6.0.1
Apple iPhone 5C ↑	4.0"	640 x 1136	326	Sep-2013	iOS 9.3.5
Samsung Galaxy S6 Edge ↑	5.1"	1440 x 2560	515	Apr-2015	Android 6.0.1
Apple iPhone 7 ↑	4.7"	750 x 1334	326	Sep-2016	iOS 10.2
Samsung Galaxy Note 4 ↓	5.7"	1440 x 2560	515	Sep-2014	Android 6.0.1
Samsung Galaxy Tab A ↑	9.7"	768 x 1024	132	May 2015	Android 6.0.1
Samsung Galaxy A5 ↑	5.0"	720 x 1280	294	Dec-2014	Android 5.0.2

Extended

Apple iPad Air 2 ↓	9.7"	2048 x 1536	264	Oct-2014	iOS 10.2
bq Aquaris E5s ↑	5.0"	720 x 1280	294	Jan-2015	Android 5.1.1
Apple iPad 4 ↓	9.7"	2048 x 1536	264	Nov-2012	iOS 10.0.2
Sony Xperia M4 Aqua NEW	5.0"	720 x 1280	294	Apr-2015	Android 5.0
LG G3 ↓	5.5"	1440 x 2560	515	Jun-2014	Android 5.0
Huawei P9lite NEW	5.2"	1080 x 1920	424	Apr-2016	Android 6.0
Sony Xperia XZ NEW	5.2"	1080 x 1920	424	Sep-2016	Android 6.0.1



Essential

Device Name	Screen Size	Screen Resolution	PPI (Pixel Per Inch)	Release Date	Recommended OS Version
Samsung Galaxy S6 =	5.1"	1440 x 2560	515	Apr-2015	Android 6.0.1
Apple iPhone 6 ↑	4.7"	750 x 1334	326	Sep-2014	iOS 10.2
Apple iPad 2 ↑	9.7"	1024 x 768	132	Mar-2011	iOS 9.3.5
Samsung Galaxy S5 ↓	5.1"	1080 x 1920	432	Apr-2014	Android 5.0
Apple iPhone 5S ↑	4.0"	640 x 1136	326	Sep-2013	iOS 10.2
Samsung Galaxy S6 Edge ↑	5.1"	1440 x 2560	515	Apr-2015	Android 6.0.1
Samsung Galaxy S7 ↑	5.1"	1440 x 2560	577	Feb-2016	Android 6.0.1
Apple iPhone 6S ↓	4.7"	750x1334	326	Sep-2015	iOS 10.2
Google Nexus 5X = [REF]	5.0"	1080 x 1920	424	Oct-2015	Android 7.1.1
Samsung Galaxy S4 ↓	5.0"	1080 x 1920	440	Apr-2013	Android 5.0.1

Enhanced

Apple iPhone 4S ↑	3.5"	640 x 960	330	Oct-2011	iOS 9.3.5
Apple iPhone 5C ↑	4.0"	640 x 1136	326	Sep-2013	iOS 10.2
Samsung Galaxy Grand Prime ↑	5.0"	540 x 960	220	Oct-2014	Android 5.1.1
Apple iPhone 6 Plus ↑	5.5"	1080 x 1920	401	Sep-2014	iOS 10.2
Samsung Galaxy Tab A ↑	9.7"	768 x 1024	131	May-2015	Android 5.0.2
Apple iPad Air 2 ↑	9.7"	2048 x 1536	264	Oct-2014	iOS 10.2
Apple iPad mini ↓	7.9"	1024 x 768	162	Nov-2012	iOS 9.3.5
Samsung Galaxy Core Prime NEW	4.5"	480 x 800	207	Nov-2014	Android 5.1.1
Samsung Galaxy Tab 3 ↑	10.1"	800 x 1280	149	Jul-2013	Android 4.4.2
Apple iPad Air ↑	9.7"	2048 x 1536	264	Oct-2013	iOS 9.3.5
Samsung Galaxy S7 Edge ↑	5.5"	1440 x 2560	534	Feb-2016	Android 6.0.1
Samsung Galaxy J5 Duos ↑	5.0"	720 x 1280	294	Jun-2015	Android 5.1.1
Apple iPhone 6S Plus ↑	5.5"	1080 x 1920	401	Sep-2014	iOS 10.2
Samsung Galaxy A3 ↑	4.5"	540 x 960	245	Dec-2014	Android 5.0.2
Samsung Galaxy Note 4 ↑	5.7"	1440 x 2560	515	Sep-2014	Android 6.0.1

Extended

Apple iPad mini 2 ↓	7.9"	2048 x 1536	324	Nov-2013	iOS 10.2
Samsung Galaxy J3 NEW	5.0"	720 x 1280	294	Jan-2016	Android 5.1.1
Huawei P8lite ↑	5.0"	720 x 1280	294		Android 6.0
Samsung Galaxy A5 ↓	5.0"	720 x 1280	294	Dec-2014	Android 5.0.2
Huawei P9 NEW	5.2"	1080 x 1920	423	Apr-2016	Android 6.0
Sony Xperia XZ NEW	5.2"	1080 x 1920	424	Sep-2016	Android 6.0.1
Blackberry Priv NEW	5.4"	1440 x 2560	540	Nov-2015	Android 5.1.1



Essential

Device Name	Screen Size	Screen Resolution	PPI (Pixel Per Inch)	Release Date	Recommended OS Version
Apple iPhone 6 =	4.7"	750 x 1334	326	Sep-2014	iOS 10.2
Samsung Galaxy S5 =	5.1"	1080 x 1920	432	Apr-2014	Android 5.0
Samsung Galaxy S6 =	5.1"	1440 x 2560	515	Apr-2015	Android 6.0.1
Apple iPhone 5S =	4.0"	640 x 1136	326	Sep-2013	iOS 10.2
Samsung Galaxy S7 ↑	5.1"	1440 x 2560	577	Feb-2016	Android 6.0.1
Apple iPad 2 ↓	9.7"	1024 x 768	132	Mar-2011	iOS 9.3.5
Apple iPhone 5 ↑	4.0"	640 x 1136	326	Sep-2012	iOS 10.2
Apple iPhone 6 Plus ↑	5.5"	1080 x 1920	401	Sep-2014	iOS 10.2
Google Nexus 5X = [REF]	5.0"	1080 x 1920	424	Oct-2015	Android 7.1.1
Samsung Galaxy S4 ↓	5.0"	1080 x 1920	440	Apr-2013	Android 4.4.2

Enhanced

Apple iPhone 6S ↓	4.7"	750 x 1334	326	Sep-2015	iOS 10.2
Apple iPad mini ↑	7.9"	1024 x 768	162	Nov-2012	iOS 9.3.5
Samsung Galaxy S6 Edge ↓	5.1"	1440 x 2560	515	Apr-2015	Android 6.0.1
Apple iPhone 4S ↑	3.5"	640 x 960	330	Oct-2011	iOS 9.3.5
Samsung Galaxy S7 Edge ↑	5.5"	1440 x 2560	534	Feb-2016	Android 6.0.1
Apple iPad Air 2 =	9.7"	2048 x 1536	264	Oct-2014	iOS 10.2
Samsung Galaxy Note 5 ↓	5.7"	1440 x 2560	515	Aug-2015	Android 6.0.1
Apple iPhone 5C ↑	4.0"	640 x 1136	326	Sep-2013	iOS 10.2
Apple iPad 4 ↓	9.7"	2048 x 1536	264	Nov-2012	iOS 10.2
Apple iPad Air ↓	9.7"	2048 x 1536	264	Oct-2013	iOS 9.3.5
Apple iPhone 7 ↑	4.7"	750 x 1334	326	Sep-2016	iOS 10.2
Samsung Galaxy Note 4 ↓	5.7"	1440 x 2560	515	Sep-2014	Android 5.1.1
Apple iPhone 6S Plus ↑	5.5"	1080 x 1920	401	Sep-2014	iOS 10.0.2
Samsung Galaxy S6 Edge Plus ↑	5.7"	1440 x 2560	518	Aug-2015	Android 5.1.1
Samsung Galaxy Tab A ↑	8.0"	768 x 1024	160	May-2015	Android 6.0.1

Extended

Samsung Galaxy Tab S2 ↑	9.7"	1536 x 2048	264	Sep-2015	Android 5.0.2
Google Pixel NEW	5.0"	1080 x 1920	441	Oct-2016	Android 7.1.1
iPhone SE NEW	4.0"	640 x 1136	326	Mar-2016	iOS 10.2
Apple iPhone 7 Plus NEW	5.5"	1080 x 1920	401	Sep-2016	iOS 10.2
Huawei P9 NEW	5.2"	1080 x 1920	423	Apr-2016	Android 6.0
HTC 10 NEW	5.2"	1440 x 2560	565	Apr-2016	Android 6.0.1
Sony Xperia XZ NEW	5.2"	1080 x 1920	424	Sep-2016	Android 6.0.1

*Some devices/OS combinations may not be commercially available. See Note on page 4.



Essential

Device Name	Screen Size	Screen Resolution	PPI (Pixel Per Inch)	Release Date	Recommended OS Version
Xiaomi Redmi Note 2 ↑	5.5"	1080x1920	403	Aug-2015	Android 5.0
Oppo F1 ↑	5.0"	720 x 1280	294	Jan-2016	Android 5.1
Apple iPhone 5S ↑	4.0"	640 x 1136	326	Sep-2013	iOS 10.2
Huawei P8 ↓	5.0"	720 x 1280	428	May-2015	Android 5.0.2
OnePlus 2 ↑	5.5"	1080x1920	401	Aug-2015	Android 5.1
Samsung Galaxy S6 ↑	5.1"	1440 x 2560	515	Apr-2015	Android 6.0.1
OnePlus 3 ↑	5.5"	1080 x 1920	401	Jun-2016	Android 6.0.1
Huawei Honor 7 ↑	5.2"	1080x1920	424	Jul-2015	Android 5.0
Apple iPhone 6 ↓	4.7"	750 x 1334	326	Sep-2014	iOS 10.2
Google Nexus 6P [REF]	5.7"	1440 x 2560	518	Oct-2015	Android 7.1.1

Enhanced

Xiaomi Redmi Note 3 ↑	5.5"	1080x1920	403	Feb-2016	Android 5.1.1
Meizu M3 NEW	5.0"	720 x 1280	294	May-2016	Android 5.1
Huawei Mate 8 ↓	6.0"	1080x1920	368	Nov-2015	Android 6.0
Leeco Le Max 2 NEW	5.7"	1440 x 2560	515	May-2016	Android 6.0
Samsung Galaxy S5 ↓	5.1"	1080 x 1920	432	Apr-2014	Android 6.0
Elephone P900 NEW	5.5"	1080 x 1920	401	Apr-2016	Android 6.0
Cubot S600 NEW	5.0"	720 x 1280	294	Jan-2016	Android 5.1
Lenovo Vibe P1 ↑	5.5"	1080x1920	401	Oct-2015	Android 5.1
Apple iPhone 6 Plus ↓	5.5"	1080 x 1920	401	Sep-2014	iOS 10.2
Meizu Pro 5 ↑	5.7"	1080x1920	386	Oct-2015	Android 5.1
Xiaomi Mi 5 ↑	5.15"	1080x1920	428	Apr-2016	Android 6.0
Samsung Galaxy Note 4 ↓	5.7"	1440 x 2560	515	Sep-2014	Android 5.1.1
Xiaomi Mi Note ↓	5.7"	1080x1920	386	Jan-2015	Android 4.4.4
Lenovo Zuk Z1 ↓	5.5"	1080x1920	401	Sep-2015	Android 5.1.1
Apple iPad Mini ↓	7.9"	1024 x 768	162	Nov-2012	iOS 9.3.5

Extended

Meizu MX6 NEW	5.5"	1080 x 1920	403	Jul-2016	Android 6.0
ZTE Nubia Z9 ↑	5.2"	1080x1920	424	Jun-2015	Android 5.0.2
Oppo F1S NEW	5.5"	720 x 1280	267	Aug-2016	Android 5.1
Huawei Honor 8 NEW	5.2"	1080 x 1920	423	Jul-2016	Android 6.0
Lenovo Zuk Z2 Pro NEW	5.2"	1080 x 1920	424	Jun-2016	Android 6.0.1
Huawei P9 ↑	5.2"	1080 x 1920	423	Apr-2016	Android 6.0
ZTE AXON 7 NEW	5.5"	1440 x 2560	538	Jun-2016	Android 6.0.1



Essential

Device Name	Screen Size	Screen Resolution	PPI (Pixel Per Inch)	Release Date	Recommended OS Version
Samsung Galaxy J7 (2016) NEW	5.5"	720 x 1280	267	Jun-2015	Android 6.0.1
Xiaomi Redmi Note 3 ↑	5.5"	1080x1920	403	Feb-2016	Android 5.0.2
Micromax Yu Yureka =	5.5"	720 x 1280	267	Jan-2015	Android 5.1
Oppo Neo 7 ↑	5.0"	540 x 960	220	Oct-2015	Android 5.1
Samsung Galaxy J5 (2016) ↑	5.0"	720 x 1280	294	Apr-2016	Android 6.0.1
Vivo V3 ↑	5.0"	720 x 1280	294	Apr-2016	Android 5.1
Lenovo Zuk Z1 ↑	5.5"	1080x1920	401	Sep-2015	Android 5.1.1
Apple iPhone 5S ↑	4.0"	640 x 1136	326	Sep-2013	iOS 10.2
LG Nexus 5x [REF]	5.2"	1080x1920	423	Sep-2015	Android 7.1.1
Samsung Galaxy S6 Edge ↓	5.1"	1440 x 2560	515	Apr-2015	Android 6.0.1

Enhanced

Reliance Jio Lava Iris X8 ↑	5.0"	720 x 1280	294	Feb-2015	Android 5.1
Micromax Canvas 6 ↓	5.5"	1080 x 1920	401	May-2016	Android 5.1
OnePlus 2 ↑	5.5"	1080x1920	401	Aug-2015	Android 5.1
Samsung Galaxy S6 ↓	5.1"	1440 x 2560	515	Apr-2015	Android 6.0.1
Oppo F1 ↑	5.0"	720 x 1280	294	Feb-2016	Android 5.1
Apple iPhone 6 ↑	4.7"	750 x 1334	326	Sep-2014	iOS 10.2
Micromax Yu Yureka Note NEW	6.0"	1080 x 1920	367	May-2016	Android 5.1.1
Xiaomi Mi 5 ↑	4.3"	540 x 960	256	Jul-2013	Android 4.4.2
Micromax Canvas Tab P290 =	7.0"	1024 x 600	170	Oct-2015	Android 5.0
OnePlus 3 ↑	5.5"	1080 x 1920	401	Jun-2016	Android 6.0.1
LeEco Le 1S ↓	5.5"	1080 x 1920	401	Feb-2016	Android 5.0
Vivo V3 Max ↓	5.5"	1080 x 1920	401	Apr-2016	Android 5.1
Vivo X7 NEW	5.2"	1080 x 1920	424	Jul-2016	Android 5.1
Intex Aqua 4G+ ↓	5.0"	720 x 1280	294	Jun-2015	Android 5.0.2
iPhone SE =	4.0"	640 x 1136	326	Mar-2016	iOS 10.2

Extended

Oppo F1S NEW	5.5"	720 x 1280	267	Aug-2016	Android 5.1
ZTE AXON 7 NEW	5.5"	1440 x 2560	538	Jun-2016	Android 6.0.1
Micromax Canvas Silver 5 Q450 ↑	4.8"	720 x 1280	306	Jul-2015	Android 5.0.2
Apple iPad 4 ↑	9.7"	2048 x 1536	264	Nov-2012	iOS 10.2
Samsung Galaxy S7 ↑	5.1"	1440 x 2560	577	Feb-2016	Android 6.0.1
Leeco Le Max 2 NEW	5.7"	1440 x 2560	515	May-2016	Android 6.0
Vivo V5 NEW	5.5"	720 x 1280	267	Nov-2016	Android 6.0

Mobile Market Calendar 2017

Be sure to plan ahead to get maximum test coverage.

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
DEVICES	Xiaomi Mi 5C ZTE AXON 7 Max Nokia 6 Huawei Mate 9 Pro Motorola Moto G5 /G5 Plus Samsung GALAXY A series(A5, A7)	Motorola Moto Z Style	Sony Z6 LG G6 Nokia D1C C1 htc U Ultra Apple iPad Pro Mini (10.5") iPad Air 3 BlackBerry Mercury	Samsung GALAXY S8 Galaxy S8 Edge Xiaomi Mi 6 htc HTC 11 Huawei P10 SONY Xperia X	Microsoft Surface Phone OnePlus 4 Samsung GALAXY X	Huawei Honor 9	Samsung GALAXY Note 8 Apple iPhone 8 iPhone 8 plus	LG V30	Google Pixel2 Pixel XL2				
	OS	iOS 10.2.1	iOS 10.3 Beta Android 7.1.2 Beta	iOS 10.3 Android 7.1.2	iOS 10.4 Beta	iOS 10.4	iOS 10.5 Beta Android 7 15% share			iOS 11 release	Android 8 release		
PROJECTED TYPICAL ADOPTION OF MAJOR OS	Android 7 2% share	Android 7 2% share	Android 7 2% share	Android 7 15% share	Android 7 15% share								

Browser Calendar 2017

Be sure to plan ahead to get maximum test coverage.

JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
 56	 57 Beta	 57	 58	 59 Beta	 59	 60 Beta	 60	 61	 62	 63 Beta	 63
 52 Beta		 52 53 Beta	 53 54 Beta		 54 55 Beta		 55 56 Beta		 56 57 Beta	 57 58 Beta	

About Perfecto

Perfecto enables exceptional digital experiences. We help you transform your business and strengthen every digital interaction with a quality-first approach to creating web and native apps, through a cloud-based test environment called the **Continuous Quality Lab™**. The CQ Lab is comprised of real devices and real end-user conditions, giving you the truest test environment available.

More than 1,500 customers, including 50% of the Fortune 500 across the banking, insurance, retail, telecommunications and media industries rely on Perfecto to deliver optimal mobile app functionality and end user experiences, ensuring their brand's reputation, establishing loyal customers, and continually attracting new users. For more information about Perfecto, visit www.perfectomobile.com, join our **community**, or follow us on Twitter at **@PerfectoMobile**.

Want to learn about creating top notch digital experiences? Subscribe to our blog and get more content just like this! blog.perfectomobile.com



Looking to learn more? Here are some of our favorite resources:

GSMArena <http://www.gsmarena.com/>

Phone Arena <http://www.phonearena.com/>

Open Signal <http://opensignal.com/reports/>

Apple <https://developer.apple.com/support/app-store/>

Android Developers <http://developer.android.com/about/dashboards/index.html>

App Annie <https://www.appannie.com/>

IHS <https://www.ihs.com/index.html>

Localytics <http://www.localytics.com>

