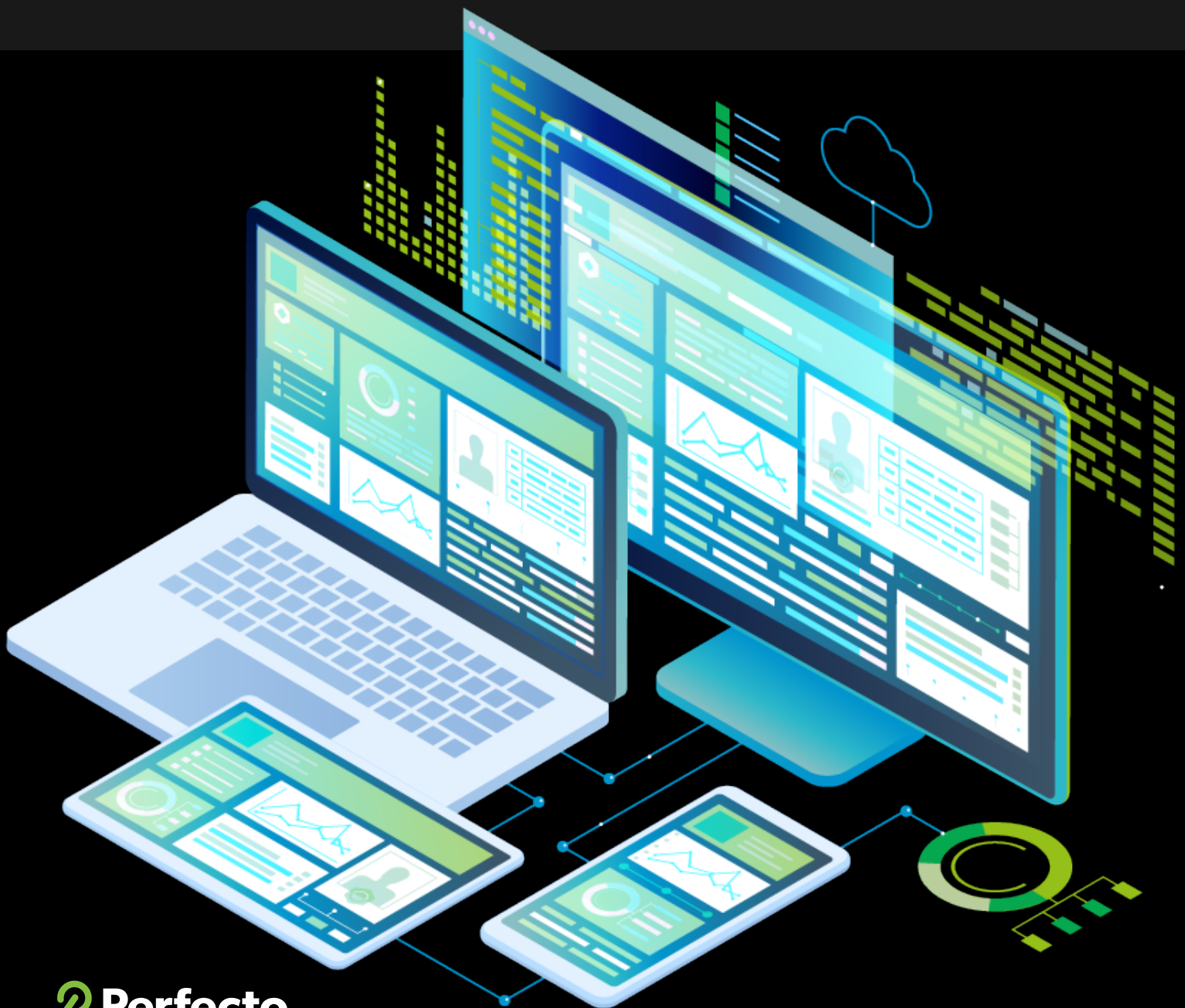


Test Coverage Guide

A Blueprint for Strategic Mobile & Web Testing

SUMMER 2021



'WHAT SHOULD I BE TESTING RIGHT NOW?'

Our customers often come to Perfecto testing experts with a few crucial questions:

What combination of devices, browsers, and operating systems should we be testing against right now?

What updates should we be planning for in the future?

This guide provides data to help you answer those questions.

Because no single data source tells the full story, we've combined exclusive Perfecto data and global mobile market usage data to provide a benchmark of devices, web browsers, and user conditions to test on — so you can make strategic decisions about test coverage across mobile and web applications.

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DATA INTO PRACTICE

How can the coverage data be applied to real-world executions? Here are five considerations when assessing size, capacity, and the right platform coverage in a mobile test lab.

Balance Data & Analysis With Risk

Combine data in this guide with your own analysis and risk assessment to decide whether to start testing with the Essential, Enhanced, or Extended mobile coverage buckets.

Map Coverage Against Your Pipeline

Map coverage needs to your test pipeline. In Figure 1 below, we divide a common pipeline by testing types and triggers. Virtual devices are often best used in earlier phases. Real devices in later phases.

Optimize Your Lab Configuration

Bundle in test data parameters (like number of tests, test duration, and required execution time). These parameters provide the actual time a full- cycle or subset may take based on your lab configuration. If outside the boundaries of the testing cycle time, more parallelization and platforms may be required.

Mixing Real & Virtual Devices

Adding emulators and simulators can improve efficiency and coverage. They can’t catch every bug. But testing on real devices only can result in limited coverage. [Read the blog to learn more >>](#)

Figure 1. Coverage Against Pipeline					
	Unit Testing P1		Build Acceptance Test P1 + P2	Acceptance Test Regression & Non-Functional	Production P3
Test Platform	1 iOS (device/simulator) 2 Android (device/emulator) 2 Desktop Browsers		Essential (Top 10) Mobile & Web Platforms	Enhanced/Extended Coverage (Top 25-32 Platforms)	2 iOS 2 Android 2-4 Browsers
Trigger	Per-commit	Post-commit	Scheduled Daily	Scheduled Nightly	Scheduled Hourly
Environment	Dev Workstation		Continuous Integration Server		Production

Sizing Your Executions

As you expand coverage, parallel testing becomes essential for accelerating test runs and avoiding unnecessary labor costs.

Figure 2 below examines the impact of 150 regression tests each running for three minutes against one platform. By multiplying each test against the test coverage bucket, we get total hours per test cycle.

150 regression tests for each of the top 10 devices would take about 10 business days. In this case, we need to run more tests in parallel to complete testing sooner.

With the right number of devices & parallel executions, you can accelerate test runs and avoid costs.

As the figure shows, running those same regression tests in parallel across 9 devices saves 67 hours and approximately \$3,500 per cycle. (Figuring an average \$100K salary and 2,080 working hours a year.)

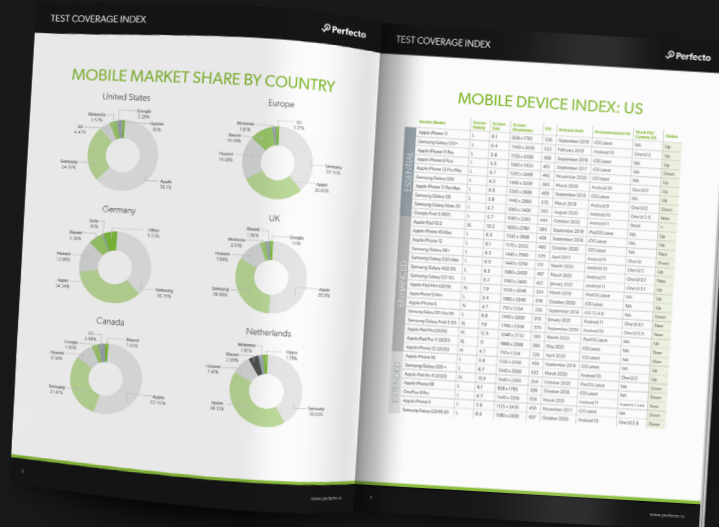
Parallel test execution (against the right platforms with the right test cases with high value) helps teams save time, reduce costs, and expedite feedback.

Figure 2. Sizing Parallel Executions

Coverage Bucket	No. of Unique Tests (Regression Ste.)	Avg. Time Per Test	Execution Window	Execution Time (Serial)	Parallel Execution Requirement	Cost Avoidance (Business Tester Annual Salary Input)
Essential Top 10	150	3 minutes	8 hours	4,500 minutes (75 hours)	9	67 hours saved (\$3,500 per cycle)
Enhanced Top 25	150	3 minutes	8 hours	11,250 minutes (187.5 hours)	23	180 hours saved (\$8,640 per cycle)
Extended Top 32	150	3 minutes	8 hours	14,400 minutes (240 hours)	30	232 hours saved (\$11,136 per cycle)

MOBILE COVERAGE RECOMMENDATIONS

Select your target country and assess coverage by device as divided into three groups — Essential, Enhanced, and Extended. Cross-reference this list with your own data and risk assessment to determine coverage gaps and opportunities.



Terms & Symbols to Know

Essential: Must test for minimal coverage. Includes top 10 most-used devices.

Enhanced: Expand for reduced risk. Includes top 25 devices, including legacy and trending devices and different screen sizes.

Extended: For maximum coverage, least risk. Includes top 32 devices, with niche, legacy, and brand new devices to represent the long tail.

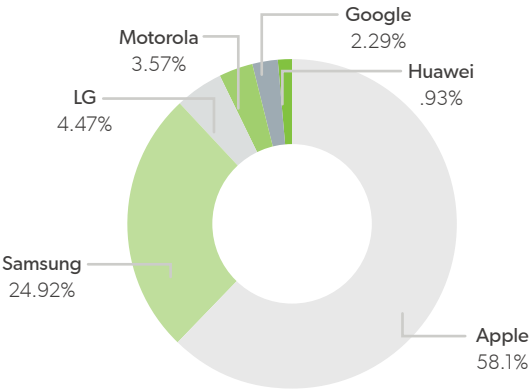
Up Arrow, Down Arrow, Equal Sign: Indicates usage changes since last quarter.

New: Devices that are *new to the index* or are reference devices running the latest OS.

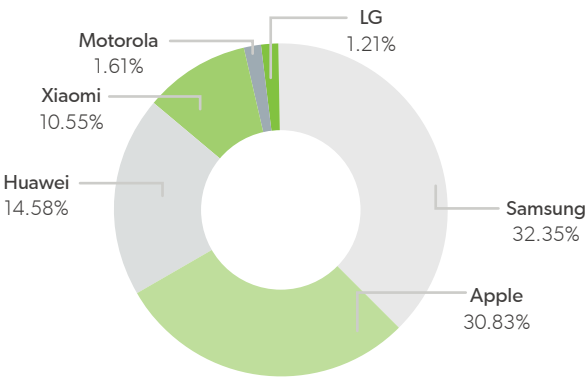
Note: The Mobile Device Coverage Index is an objective reflection of selected markets based on mobile device usage of specific operating system versions. Some of the device and operating system combinations that are recommended in this report may no longer be available from OEMs or wireless network providers due to market dynamics

MOBILE MARKET SHARE BY COUNTRY

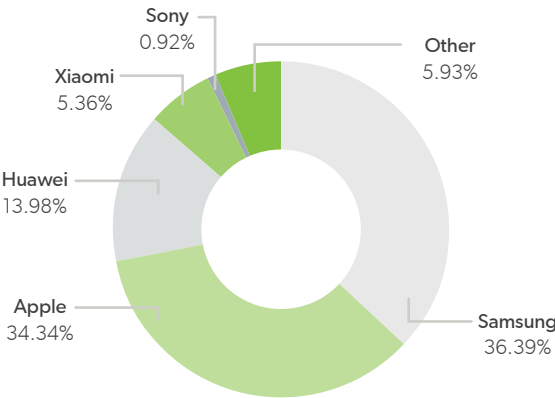
United States



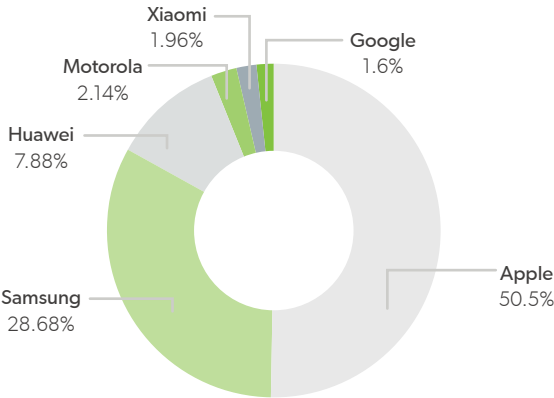
Europe



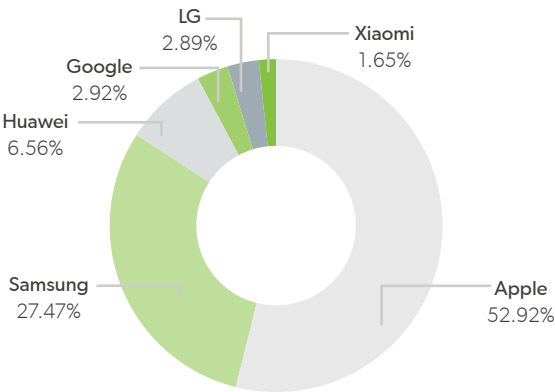
Germany



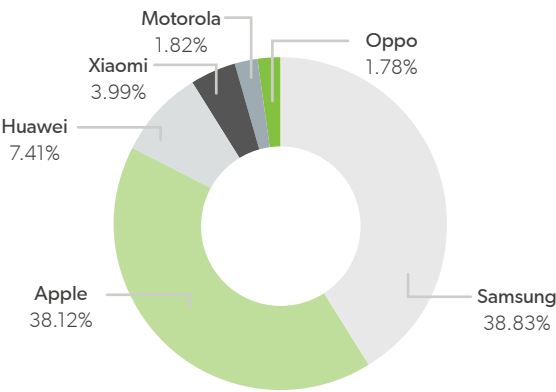
UK



Canada

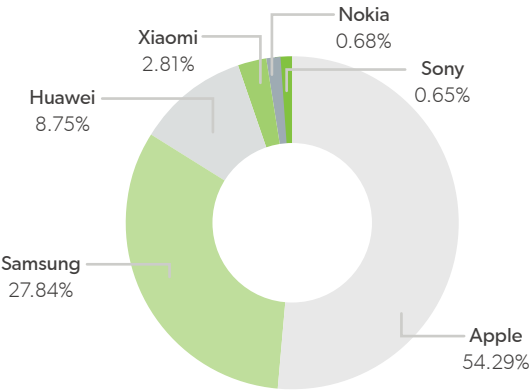


Netherlands

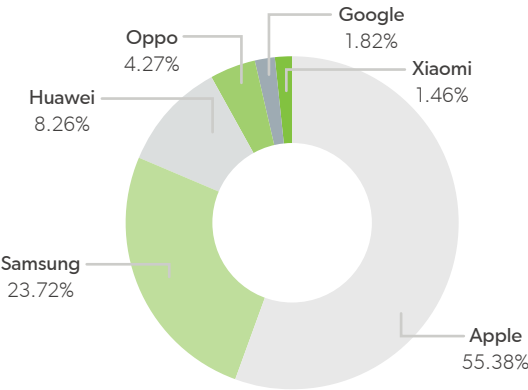


MOBILE MARKET SHARE BY COUNTRY

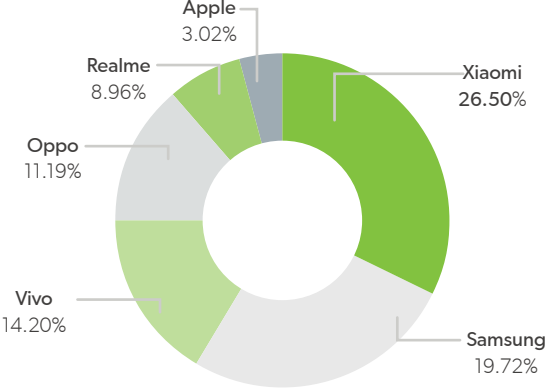
Switzerland



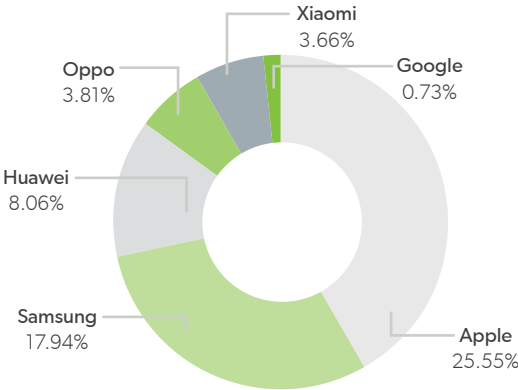
Australia



India



Singapore



MOBILE DEVICE INDEX: US

	Device Model	Screen Family	Screen Size	Screen Resolution	PPI	Release Date	Recommended OS	Stock OS/ Custom OS	Status
ESSENTIAL	Apple iPhone 11	L	6.1	828 x 1792	326	September 2019	iOS Latest	NA	▲
	Samsung Galaxy S10+	L	6.4	1440 x 3040	522	February 2019	Android 10	One UI 2	▲
	Apple iPhone 11 Pro	L	5.8	1125 x 2436	458	September 2019	iOS Latest	NA	▲
	Apple iPhone 8 Plus	L	5.5	1080 x 1920	401	September 2017	iOS Latest	NA	▼
	Apple iPhone 12 Pro Max	L	6.7	1242 x 2688	442	November 2020	iOS latest	NA	▲
	Samsung Galaxy S20	L	6.2	1440 x 3200	563	March 2020	Android 10	One UI 2	▲
	Apple iPhone 11 Pro Max	L	6.5	1242 x 2688	458	September 2019	iOS Latest	NA	▲
	Samsung Galaxy S9	L	5.8	1440 x 2960	570	March 2018	Android 9	One UI 2	▼
	Samsung Galaxy Note 20	L	6.7	1080 x 2400	393	August 2020	Android 10	One UI 2.5	New
	Google Pixel 5 (REF)	L	5.7	1080 x 2280	444	October 2020	Android 11	Stock	=
ENHANCED	Apple iPad 10.2	XL	10.2	1620 x 2160	264	September 2019	iPadOS Latest	NA	▲
	Apple iPhone XS Max	L	6.5	1242 x 2688	458	September 2018	iOS Latest	NA	▲
	Apple iPhone 12	L	6.1	1170 x 2532	460	October 2020	iOS Latest	NA	New
	Samsung Galaxy S8+	L	6.2	1440 x 2960	529	April 2017	Android 9	One UI	▼
	Samsung Galaxy S20 Ultra	L	6.9	1440 x 3200	511	March 2020	Android 10	One UI 2	▲
	Samsung Galaxy A52 5G	L	6.5	1080 x 2400	407	March 2021	Android 11	One UI 3.1	New
	Samsung Galaxy S21 5G	L	6.2	1080 x 2400	421	January 2021	Android 11	One UI 3.1	▲
	Apple iPad Mini (2019)	XL	7.9	1536 x 2048	324	March 2019	iPadOS Latest	NA	▲
	Apple iPhone 12 Mini	L	5.4	1080 x 2340	476	October 2020	iOS Latest	NA	▲
	Apple iPhone 6	N	4.7	750 x 1334	326	September 2014	iOS 12.4.8	NA	▼
	Samsung Galaxy S21 Ultra 5G	L	6.8	1440 x 3200	515	January 2021	Android 11	One UI 3.1	New
	Samsung Galaxy Fold 2 5G	XL	7.6	1768 x 2208	373	September 2020	Android 10	One UI 2.5	New
	Apple iPad Pro (2020)	XL	12.9	2048 x 2732	265	March 2020	iPadOS Latest	NA	▲
	Apple iPad Pro 11 (2021)	XL	11	1668 x 2388	265	May 2021	iOS Latest	NA	New
	Apple iPhone SE (2020)	N	4.7	750 x 1334	326	April 2020	iOS Latest	NA	New
EXTENDED	Apple iPhone XS	L	5.8	1125 x 2436	458	September 2018	iOS Latest	NA	▲
	Samsung Galaxy S20 +	L	6.7	1440 x 3200	522	March 2020	Android 10	One UI 2	▲
	Apple iPad Air 4 (2020)	XL	10.9	1640 x 2360	264	October 2020	iPadOS Latest	NA	▼
	Apple iPhone XR	L	6.1	828 x 1792	326	October 2018	iOS Latest	NA	▼
	OnePlus 9 Pro	L	6.7	1440 x 3216	525	March 2021	Android 11	OxygenOS 11.2.6.6	New
	Apple iPhone X	L	5.8	1125 x 2436	458	November 2017	iOS Latest	NA	▼
	Samsung Galaxy S20 FE 5G	L	6.5	1080 x 2400	407	October 2020	Android 10	One UI 2.5	▼

MOBILE DEVICE INDEX: CANADA

	Device Model	Screen Family	Screen Size	Screen Resolution	PPI	Release Date	Recommended OS	Stock OS/ Custom OS	Status
ESSENTIAL	Apple iPhone 11	L	6.1	828 x 1792	326	September 2019	iOS Latest	NA	▲
	Samsung Galaxy S20 Ultra	L	6.9	1440 x 3200	511	March 2020	Android 10	One UI 2	▲
	Samsung Galaxy S10+	L	6.4	1440 x 3040	522	February 2019	Android 10	One UI 2	▲
	Apple iPhone 11 Pro Max	L	6.5	1242 x 2688	458	September 2019	iOS Latest	NA	▲
	Apple iPhone XS	L	5.8	1125 x 2436	458	September 2018	iOS Latest	NA	▲
	Apple iPhone 8	N	4.7	750 x 1334	326	September 2017	iOS Latest	NA	▼
	Samsung Galaxy S21 5G	L	6.2	1080 x 2400	421	January 2021	Android 11	One UI 3.1	New
	Apple iPhone 12	L	6.1	1170 x 2532	460	October 2020	iOS Latest	NA	▲
	Apple iPhone XR	L	6.1	828 x 1792	326	October 2018	iOS Latest	NA	▼
	Google Pixel 5 (REF)	L	5.7	1080 x 2280	444	October 2020	Android 11	Stock	=
ENHANCED	Samsung Galaxy S8	L	5.8	1440 x 2960	570	April 2017	Android 9	One UI	▼
	Apple iPhone 8 Plus	L	5.5	1080 x 1920	401	September 2017	iOS Latest	NA	▼
	Samsung Galaxy S20 +	L	6.7	1440 x 3200	522	March 2020	Android 10	One UI 2	▲
	Apple iPhone 6	N	4.7	750 x 1334	326	September 2014	iOS 12.4.8	NA	▼
	Apple iPhone 12 Pro Max	L	6.7	1242 x 2688	442	November 2020	iOS latest	NA	▲
	Apple iPad Air 4 (2020)	XL	10.9	1640 x 2360	264	October 2020	iPadOS Latest	NA	New
	Samsung Galaxy Note 20 Ultra 5G	L	6.9	1440 x 3088	496	August 2020	Android 10	One UI 2.5	New
	Samsung Galaxy S9+	L	6.2	1440 x 2960	529	March 2018	Android 10	One UI 2	▲
	Samsung Galaxy S20 FE 5G	L	6.5	1080 x 2400	407	October 2020	Android 10	One UI 2.5	New
	Apple iPad Mini (2019)	XL	7.9	1536 x 2048	324	March 2019	iPadOS Latest	NA	▲
	Samsung Galaxy Tab A (2019)	XL	10.1	1200 x 1920	224	April 2019	Android 9	One UI	New
	Apple iPhone XS Max	L	6.5	1242 x 2688	458	September 2018	iOS Latest	NA	▲
	Apple iPad Pro (2020)	XL	12.9	2048 x 2732	265	March 2020	iPadOS Latest	NA	▲
	Huawei P30 Pro	L	6.47	1080 x 2340	398	March 2019	Android 10	EMUI 10	New
	Apple iPad Pro 11 (2021)	XL	11	1668 x 2388	265	May 2021	iOS Latest	NA	New
EXTENDED	Apple iPad Air 2019	XL	10.5	1668 x 2224	265	March 2019	iPadOS Latest	NA	New
	Apple iPhone SE (2020)	N	4.7	750 x 1334	326	April 2020	iOS Latest	NA	New
	Apple iPad 10.2 (2020)	XL	10.2	1620 x 2160	264	September 2020	iPadOS Latest	NA	New
	Apple iPhone 11 Pro	L	5.8	1125 x 2436	458	September 2019	iOS Latest	NA	▲
	Apple iPhone 12 Mini	L	5.4	1080 x 2340	476	October 2020	iOS Latest	NA	▲
	Motorola One 5G Ace	L	6.7	1080 x 2400	393	January 2021	Android 10	Stock	New
	LG Velvet 5G	L	6.8	1080 x 2460	395	May 2021	Android 11	LG UX	New

MOBILE DEVICE INDEX: EU5

	Device Model	Screen Family	Screen Size	Screen Resolution	PPI	Release Date	Recommended OS	Stock OS/ Custom OS	Status
ESSENTIAL	Samsung Galaxy S10+	L	6.4	1440 x 3040	522	February 2019	Android 10	One UI 2	▲
	Samsung Galaxy S20 Ultra	L	6.9	1440 x 3200	511	March 2020	Android 10	One UI 2	▲
	Apple iPhone 11 Pro	L	5.8	1125 x 2436	458	September 2019	iOS Latest	NA	▲
	Huawei P30 Pro	L	6.47	1080 x 2340	398	March 2019	Android 10	EMUI 10	New
	Xiaomi Mi Mix 3	L	6.39	1080 x 2340	403	November 2018	Android 10	MIUI 11	▲
	Apple iPhone 11	L	6.1	828 x 1792	326	September 2019	iOS Latest	NA	▲
	Apple iPhone 8	N	4.7	750 x 1334	326	September 2017	iOS Latest	NA	▼
	Apple iPhone 12	XL	6.1	1170 x 2532	460	October 2020	iOS Latest	NA	▲
	Samsung Galaxy S9+	L	6.2	1440 x 2960	529	March 2018	Android 10	One UI 2	▲
	Google Pixel 5 (REF)	L	5.7	1080 x 2280	444	October 2020	Android 11	Stock	=
ENHANCED	Apple iPhone 12 Pro Max	L	6.7	1242 x 2688	442	November 2020	iOS latest	NA	▲
	Xiaomi Mi10T Pro 5G	L	6.67	1080 x 2400	395	October 2020	Android 10	MIUI 12	▲
	Apple iPhone 8 Plus	L	5.5	1080 x 1920	401	September 2017	iOS Latest	NA	▼
	Samsung Galaxy S20 FE 5G	L	6.5	1080 x 2400	407	October 2020	Android 10	One UI 2.5	▲
	Oppo Find X3 Pro	L	6.7	1440 x 3216	525	March 2021	Android 11	ColorOS 11.2	New
	Huawei Mate 20 Pro	L	6.39	1440 x 3120	538	November 2018	Android 9	EMUI 9.1	▼
	Huawei P40 Lite 5G	L	6.5	1080 x 2400	405	May 2020	Android 10	EMUI 10.1	▲
	Samsung Galaxy Fold 2 5G	XL	7.6	1768 x 2208	373	September 2020	Android 10	One UI 2.5	▲
	Apple iPad 10.2	XL	10.2	1620 x 2160	264	September 2019	iPadOS Latest	NA	▼
	Samsung Galaxy S21 5G	XL	6.2	1080 x 2400	421	January 2021	Android 11	One UI 3.1	▲
	Sony Xperia 10 II	L	6.00	1080 x 2520	457	May 2020	Android 11	Stock	▲
	Apple iPad Pro 11 (2021)	XL	11.0	1668 x 2388	265	May 2021	iOS Latest	NA	▼
	Apple iPad Pro (2020)	XL	12.9	2048 x 2732	265	March 2020	iPadOS Latest	NA	▼
	Samsung Galaxy Note 20 Ultra 5G	L	6.9	1440 x 3088	496	August 2020	Android 10	One UI 2.5	▲
	Oppo A54	L	6.5	720 x 1600	270	April 2021	Android 10	ColorOS 7.2	▲
EXTENDED	Apple iPhone 11 Pro Max	L	6.5	1242 x 2688	458	September 2019	iOS Latest	NA	▼
	Samsung Galaxy Tab S5e	XL	10.5	1600 x 2560	288	April 2019	Android 9	One UI	▼
	Apple iPhone 12 Mini	XL	5.4	1080 x 2340	476	October 2020	iOS Latest	NA	▲
	Apple iPad Mini (2019)	XL	7.9	1536 x 2048	324	March 2019	iPadOS Latest	NA	▼
	Samsung Galaxy S10	L	6.1	1440 x 3040	550	February 2019	Android 10	One UI 2	▲
	Samsung Galaxy S7 Edge	L	5.5	1440 x 2560	534	March 2016	Android 8	TouchWiz UI	▼
	Huawei P30 Lite	L	6.15	1080 x 2312	415	April 2019	Android 10	EMUI 10	▼

MOBILE DEVICE INDEX: UK

	Device Model	Screen Family	Screen Size	Screen Resolution	PPI	Release Date	Recommended OS	Stock OS/ Custom OS	Status
ESSENTIAL	Apple iPhone 11	L	6.1	828 x 1792	326	September 2019	iOS Latest	NA	▲
	Apple iPhone 8	N	4.7	750 x 1334	326	September 2017	iOS Latest	NA	▼
	Samsung Galaxy S9+	L	6.2	1440 x 2960	529	March 2018	Android 10	One UI 2	▲
	Samsung Galaxy S20 Ultra	L	6.9	1440 x 3200	511	March 2020	Android 10	One UI 2	▲
	Samsung Galaxy S21 Ultra 5G	XL	6.80	1440 x 3200	515	January 2021	Android 11	One UI 3.1	▲
	Apple iPhone 11 Pro Max	L	6.5	1242 x 2688	458	September 2019	iOS Latest	NA	▲
	Samsung Galaxy S8+	L	6.2	1440 x 2960	529	April 2017	Android 9	One UI	▼
	Apple iPhone 8 Plus	L	5.5	1080 x 1920	401	September 2017	iOS Latest	NA	▼
	Apple iPhone 12 Pro Max	L	6.7	1242 x 2688	442	November 2020	iOS latest	NA	▲
	Google Pixel 5 (REF)	L	5.7	1080 x 2280	444	October 2020	Android 11	Stock	=
ENHANCED	Huawei P30 Pro	L	6.47	1080 x 2340	398	March 2019	Android 10	EMUI 10	New
	Xiaomi Mi 11	XL	6.81	1440 x 3200	515	January 2021	Android 11	MIUI 12.5	New
	Huawei P40 Lite 5G	L	6.5	1080 x 2400	405	May 2020	Android 10	EMUI 10.1	New
	Xiaomi Redmi Note 10	XL	6.43	1080 x 2400	409	March 2021	Android 11	MIUI 12	New
	Samsung Galaxy Note 20 Ultra 5G	L	6.9	1440 x 3088	496	August 2020	Android 10	One UI 2.5	New
	Apple iPhone 11 Pro	L	5.8	1125 x 2436	458	September 2019	iOS Latest	NA	▲
	Apple iPad Pro (2020)	XL	12.9	2048 x 2732	265	March 2020	iPadOS Latest	NA	▲
	Apple iPad 10.2	XL	10.2	1620 x 2160	264	September 2019	iPadOS Latest	NA	▲
	Samsung Galaxy S20 +	L	6.7	1440 x 3200	522	March 2020	Android 10	One UI 2	▲
	Apple iPhone 12	XL	6.10	1170 x 2532	460	October 2020	iOS Latest	NA	New
	Apple iPhone XS Max	L	6.5	1242 x 2688	458	September 2018	iOS Latest	NA	▲
	Samsung Galaxy S7 Edge	L	5.5	1440 x 2560	534	March 2016	Android 8	TouchWiz UI	▼
	Apple iPhone 12 Mini	XL	5.40	1080 x 2340	476	October 2020	iOS Latest	NA	▲
	Apple iPhone XR	L	6.1	828 x 1792	326	October 2018	iOS Latest	NA	▼
	Apple iPhone 12 Pro	XL	6.10	1170 x 2532	460	October 2020	iOS Latest	NA	▲
EXTENDED	Samsung Galaxy Tab S5e	XL	10.5	1600 x 2560	288	April 2019	Android 9	One UI	New
	Samsung Galaxy S21 5G	XL	6.20	1080 x 2400	421	January 2021	Android 11	One UI 3.1	▲
	Apple iPhone SE (2020)	N	4.7	750 x 1334	326	April 2020	iOS Latest	NA	New
	Huawei Mate 20 Pro	L	6.39	1440 x 3120	538	November 2018	Android 9	EMUI 9.1	=
	Samsung Galaxy A32	XL	6.40	1080 x 2400	411	February 2021	Android 11	OneUI 3.1	New
	Samsung Galaxy Fold 2 5G	XL	7.6	1768 x 2208	373	September 2020	Android 10	One UI 2.5	New
	Oppo Find X3 Pro	XL	6.70	1440 x 3216	525	March 2021	Android 11	ColorOS 11.2	New

MOBILE DEVICE INDEX: GERMANY

	Device Model	Screen Family	Screen Size	Screen Resolution	PPI	Release Date	Recommended OS	Stock OS/ Custom OS	Status
ESSENTIAL	Samsung Galaxy S8	L	5.8	1440 x 2960	570	April 2017	Android 9	One UI	▼
	Samsung Galaxy S9+	L	6.2	1440 x 2960	529	March 2018	Android 10	One UI 2	▲
	Apple iPhone 11 Pro	L	5.8	1125 x 2436	458	September 2019	iOS Latest	NA	▲
	Apple iPhone 8	N	4.7	750 x 1334	326	September 2017	iOS Latest	NA	▼
	Samsung Galaxy Note 10+	L	6.8	1440 x 3040	498	August 2019	Android 10	One UI 2	▲
	Apple iPhone 7 Plus	L	5.5	1080 x 1920	401	September 2016	iOS Latest	NA	▼
	Apple iPhone 12	XL	6.1	1170 x 2532	460	October 2020	iOS Latest	NA	▲
	Apple iPhone 11	L	6.1	828 x 1792	326	September 2019	iOS Latest	NA	▲
	Samsung Galaxy S21 5G	XL	6.2	1080 x 2400	421	January 2021	Android 11	One UI 3.1	▲
	Google Pixel 5 (REF)	L	5.7	1080 x 2280	444	October 2020	Android 11	Stock	=
ENHANCED	Huawei P30 Pro	L	6.47	1080 x 2340	398	March 2019	Android 10	EMUI 10	New
	Xiaomi Mi 10 5G	L	6.57	1080 x 2400	401	May 2020	Android 10	MiUI 11	▲
	Apple iPhone 12 Pro Max	L	6.7	1242 x 2688	442	November 2020	iOS latest	NA	▲
	Apple iPad Pro 11 (2021)	XL	11	1668 x 2388	265	May 2021	iOS Latest	NA	New
	Apple iPhone 11 Pro Max	L	6.5	1242 x 2688	458	September 2019	iOS Latest	NA	▼
	Samsung Galaxy S20 Ultra	L	6.9	1440 x 3200	511	March 2020	Android 10	One UI 2	▲
	Samsung Galaxy Tab A (2019)	XL	10.1	1200 x 1920	224	April 2019	Android 9	One UI	New
	Samsung Galaxy A70	L	6.7	1080 x 2400	393	April 2019	Android 10	One UI 2	▼
	Apple iPhone 12 Mini	XL	5.4	1080 x 2340	476	October 2020	iOS Latest	NA	▲
	Xiaomi Mi 11	XL	6.81	1440 x 3200	515	January 2021	Android 11	MIUI 12.5	New
	Oppo Find X3 Pro	XL	6.70	1440 x 3216	525	March 2021	Android 11	ColorOS 11.2	New
	Sony Xperia 10 II	L	6.00	1080 x 2520	457	May 2020	Android 11	Stock	▲
	Apple iPhone SE (2020)	N	4.7	750 x 1334	326	April 2020	iOS Latest	NA	▼
	Huawei P Smart 2021	L	6.67	1080 x 2400	395	September 2020	Android 10	EMUI 10.1	▲
	Xiaomi Redmi Note 10 Pro	XL	6.67	1080 x 2400	395	March 2021	Android 11	MIUI 12	New
EXTENDED	Samsung Galaxy Note 20 Ultra 5G	L	6.9	1440 x 3088	496	August 2020	Android 10	One UI 2.5	▲
	Xiaomi Mi10T Pro 5G	L	6.67	1080 x 2400	395	October 2020	Android 10	MIUI 12	▲
	Apple iPad Pro (2020)	XL	12.9	2048 x 2732	265	March 2020	iPadOS Latest	NA	▼
	Samsung Galaxy S20 FE 5G	L	6.5	1080 x 2400	407	October 2020	Android 10	One UI 2.5	▲
	Samsung Galaxy Fold 2 5G	XL	7.6	1768 x 2208	373	September 2020	Android 10	One UI 2.5	▼
	Huawei P40 Lite 5G	L	6.5	1080 x 2400	405	May 2020	Android 10	EMUI 10.1	▲
	Samsung Galaxy A52	XL	6.50	1080 x 2400	407	March 2021	Android 11	One UI 3.1	New

MOBILE DEVICE INDEX: NETHERLANDS

	Device Model	Screen Family	Screen Size	Screen Resolution	PPI	Release Date	Recommended OS	Stock OS/ Custom OS	Status
ESSENTIAL	Samsung Galaxy S10	L	6.1	1440 x 3040	550	February 2019	Android 10	One UI 2	▲
	Apple iPhone 12	XL	6.10	1170 x 2532	460	October 2020	iOS Latest	NA	▲
	Apple iPhone 11	L	6.1	828 x 1792	326	September 2019	iOS Latest	NA	▲
	Samsung Galaxy S9	L	5.8	1440 x 2960	570	March 2018	Android 9	One UI 2	▼
	Xiaomi Mi 11	XL	6.81	1440 x 3200	515	January 2021	Android 11	MIUI 12.5	New
	Samsung Galaxy S8	L	5.8	1440 x 2960	570	April 2017	Android 9	One UI	▼
	Apple iPhone 11 Pro	L	5.8	1125 x 2436	458	September 2019	iOS Latest	NA	▲
	Samsung Galaxy S20 Ultra	L	6.9	1440 x 3200	511	March 2020	Android 10	One UI 2	▲
	Google Pixel 5 (REF)	L	5.7	1080 x 2280	444	October 2020	Android 11	Stock	=
	Huawei P40 Lite 5G	L	6.5	1080 x 2400	405	May 2020	Android 10	EMUI 10.1	New
ENHANCED	Apple iPhone 12 Pro Max	L	6.7	1242 x 2688	442	November 2020	iOS latest	NA	▲
	Sony Xperia 5 II 5G	L	6.1	1080 x 2520	449	September 2020	Android 10	Android 11	New
	Samsung Galaxy Note 20 Ultra 5G	L	6.9	1440 x 3088	496	August 2020	Android 10	One UI 2.5	New
	OnePlus Nord	L	6.44	1080 x 2400	408	August 2020	Android 10	Oxygen OX 10.5.4	▲
	Samsung Galaxy A52	XL	6.50	1080 x 2400	407	March 2021	Android 11	One UI 3.1	New
	Oppo Find X3 Pro	XL	6.70	1440 x 3216	525	March 2021	Android 11	ColorOS 11.2	New
	Apple iPad Pro 11 (2021)	XL	11.00	1668 x 2388	265	May 2021	iOS Latest	NA	New
	Apple iPhone 8 Plus	L	5.5	1080 x 1920	401	September 2017	iOS Latest	NA	▼
	Samsung Galaxy Fold 2 5G	XL	7.6	1768 x 2208	373	September 2020	Android 10	One UI 2.5	▲
	Apple iPhone 12 Pro	XL	6.10	1170 x 2532	460	October 2020	iOS Latest	NA	▲
	Samsung Galaxy S21 Ultra 5G	XL	6.80	1440 x 3200	515	January 2021	Android 11	One UI 3.1	▲
	Apple iPad Pro (2020)	XL	12.9	2048 x 2732	265	March 2020	iPadOS Latest	NA	▲
	Samsung Galaxy S20 +	L	6.7	1440 x 3200	522	March 2020	Android 10	One UI 2	▲
	Huawei P30 Pro	L	6.47	1080 x 2340	398	March 2019	Android 10	EMUI 10	New
	Xiaomi Mi10T Pro 5G	L	6.67	1080 x 2400	395	October 2020	Android 10	MIUI 12	New
EXTENDED	Samsung Galaxy A32	XL	6.40	1080 x 2400	411	February 2021	Android 11	OneUI 3.1	New
	Samsung Galaxy A71	L	6.7	1080 x 2400	393	January 2020	Android 10	One UI 2	New
	Samsung Galaxy S20	L	6.2	1440 x 3200	563	March 2020	Android 10	One UI 2	▲
	Xiaomi Mi Note 10	L	6.47	1080 x 2340	398	November 2019	Android 9	MIUI 11	New
	Oppo A91	L	6.4	1080 x 2400	408	December 2019	Android 9	ColorOS 6.1	▲
	Apple iPhone 12 Mini	XL	5.40	1080 x 2340	476	October 2020	iOS Latest	NA	▲
	OnePlus 9 Pro	XL	6.70	1440 x 3216	525	March 2021	Android 11	OxygenOS 11.2.6.6	New

MOBILE DEVICE INDEX: SWITZERLAND

	Device Model	Screen Family	Screen Size	Screen Resolution	PPI	Release Date	Recommended OS	Stock OS/ Custom OS	Status
ESSENTIAL	Apple iPhone 11	L	6.1	828 x 1792	326	September 2019	iOS Latest	NA	▲
	Samsung Galaxy S8	L	5.8	1440 x 2960	570	April 2017	Android 9	One UI	▼
	Samsung Galaxy S10	L	6.1	1440 x 3040	550	February 2019	Android 10	One UI 2	▲
	Apple iPhone 8 Plus	L	5.5	1080 x 1920	401	September 2017	iOS Latest	NA	▼
	Samsung Galaxy S9+	L	6.2	1440 x 2960	529	March 2018	Android 10	One UI 2	▲
	Huawei P30 Pro	L	6.47	1080 x 2340	398	March 2019	Android 10	EMUI 10	New
	Samsung Galaxy S20 Ultra	L	6.9	1440 x 3200	511	March 2020	Android 10	One UI 2	▲
	Apple iPhone 12 Pro	XL	6.10	1170 x 2532	460	October 2020	iOS Latest	NA	New
	Samsung Galaxy S10+	L	6.4	1440 x 3040	522	February 2019	Android 10	One UI 2	▲
	Google Pixel 5 (REF)	L	5.7	1080 x 2280	444	October 2020	Android 11	Stock	=
ENHANCED	Oppo Find X3 Pro	XL	6.70	1440 x 3216	525	March 2021	Android 11	ColorOS 11.2	New
	Samsung Galaxy S21 5G	XL	6.20	1080 x 2400	421	January 2021	Android 11	One UI 3.1	New
	Apple iPad Pro 11 (2021)	XL	11	1668 x 2388	265	May 2021	iOS Latest	NA	New
	Apple iPhone 12 Mini	XL	5.40	1080 x 2340	476	October 2020	iOS Latest	NA	New
	Samsung Galaxy Note 20 Ultra 5G	L	6.9	1440 x 3088	496	August 2020	Android 10	One UI 2.5	New
	Samsung Galaxy A50	L	6.4	1080 x 2340	403	February 2019	Android 9	One UI 2	▲
	Apple iPhone 12 Pro Max	L	6.7	1242 x 2688	442	November 2020	iOS latest	NA	▲
	Apple iPhone 7	N	4.7	750 x 1334	326	September 2016	iOS Latest	NA	▼
	Nokia 8.3 5G	L	6.81	1080 x 2400	386	September 2020	Android 11	Android One	▲
	Huawei P30 Lite	L	6.15	1080 x 2312	415	April 2019	Android 10	EMUI 10	New
	Apple iPhone 11 Pro Max	L	6.5	1242 x 2688	458	September 2019	iOS Latest	NA	▲
	Samsung Galaxy Note 10+	L	6.8	1440 x 3040	498	August 2019	Android 10	One UI 2	▲
	Huawei Mate 20 Pro	L	6.39	1440 x 3120	538	November 2018	Android 9	EMUI 9.1	=
	Apple iPad Pro	XL	12.9	2048 x 2732	264	November 2015	iPadOS Latest	NA	▼
	Xiaomi Mi10T Pro 5G	L	6.67	1080 x 2400	395	October 2020	Android 10	MIUI 12	New
EXTENDED	Samsung Galaxy A32	XL	6.40	1080 x 2400	411	February 2021	Android 11	OneUI 3.1	New
	LG Velvet 5G	XL	6.80	1080 x 2460	395	May 2021	Android 11	LG UX	New
	Samsung Galaxy S20 +	L	6.7	1440 x 3200	522	March 2020	Android 10	One UI 2	▲
	Samsung Galaxy A52	XL	6.50	1080 x 2400	407	March 2021	Android 11	One UI 3.1	New
	Samsung Galaxy Fold 2 5G	XL	7.6	1768 x 2208	373	September 2020	Android 10	One UI 2.5	New
	Oppo Reno 4 Pro 5G	L	6.55	1080 x 2400	402	June 2020	Android 10	ColorOS 7.2	▲
	Apple iPhone X	L	5.8	1125 x 2436	458	November 2017	iOS Latest	NA	▼

MOBILE DEVICE INDEX: AUSTRALIA

	Device Model	Screen Family	Screen Size	Screen Resolution	PPI	Release Date	Recommended OS	Stock OS/ Custom OS	Status
ESSENTIAL	Apple iPhone 11	L	6.1	828 x 1792	326	September 2019	iOS Latest	NA	▲
	Samsung Galaxy S10+	L	6.4	1440 x 3040	522	February 2019	Android 10	One UI 2	▲
	Apple iPhone 8 Plus	L	5.5	1080 x 1920	401	September 2017	iOS Latest	NA	▼
	Samsung Galaxy S9+	L	6.2	1440 x 2960	529	March 2018	Android 10	One UI 2	▲
	Apple iPhone 11 Pro	L	5.8	1125 x 2436	458	September 2019	iOS Latest	NA	▲
	Apple iPhone 11 Pro Max	L	6.5	1242 x 2688	458	September 2019	iOS Latest	NA	▲
	Samsung Galaxy S20 Ultra	L	6.9	1440 x 3200	511	March 2020	Android 10	One UI 2	▲
	Apple iPhone 12 Pro Max	L	6.7	1242 x 2688	442	November 2020	iOS latest	NA	▲
	Huawei P30 Pro	L	6.47	1080 x 2340	398	March 2019	Android 10	EMUI 10	New
	Google Pixel 5 (REF)	L	5.7	1080 x 2280	444	October 2020	Android 11	Stock	=
ENHANCED	Samsung Galaxy Note 20 Ultra 5G	L	6.9	1440 x 3088	496	August 2020	Android 10	One UI 2.5	New
	Apple iPhone 7	N	4.7	750 x 1334	326	September 2016	iOS Latest	NA	▼
	Oppo A91	L	6.4	1080 x 2400	408	December 2019	Android 9	ColorOS 6.1	▲
	Samsung Galaxy S9	L	5.8	1440 x 2960	570	March 2018	Android 9	One UI 2	▼
	Samsung Galaxy S20	L	6.2	1440 x 3200	563	March 2020	Android 10	One UI 2	▲
	Apple iPhone 12	L	6.1	1170 x 2532	460	October 2020	iOS Latest	NA	New
	Apple iPhone XS Max	L	6.5	1242 x 2688	458	September 2018	iOS Latest	NA	▲
	Apple iPad 10.2	XL	10.2	1620 x 2160	264	September 2019	iPadOS Latest	NA	▲
	Samsung Galaxy S7	N	5.1	1440 x 2560	577	February 2016	Android 8	TouchWiz UI	▼
	Samsung Galaxy A52	XL	6.50	1080 x 2400	407	March 2021	Android 11	One UI 3.1	New
	Samsung Galaxy S21 5G	XL	6.2	1080 x 2400	421	January 2021	Android 11	One UI 3.1	▲
	Oppo Find X2 Lite	L	6.40	1080 x 2400	408	May 2020	Android 10	ColorOS 7	New
	Apple iPhone 12	XL	6.1	1170 x 2532	460	October 2020	iOS Latest	NA	▲
	Oppo A54	XL	6.51	720 x 1600	270	April 2021	Android 10	ColorOS 7.2	New
	Apple iPad Mini (2019)	XL	7.9	1536 x 2048	324	March 2019	iPadOS Latest	NA	▲
EXTENDED	Samsung Galaxy S20 +	L	6.7	1440 x 3200	522	March 2020	Android 10	One UI 2	▲
	Samsung Galaxy S20 FE 5G	L	6.5	1080 x 2400	407	October 2020	Android 10	One UI 2.5	New
	Huawei Mate 20 Pro	L	6.39	1440 x 3120	538	November 2018	Android 9	EMUI 9.1	=
	Motorola Moto G10 4G	L	6.50	720 x 1600	269	February 2021	Android 11	Stock	New
	Oppo Find X2 Lite	L	6.4	1080 x 2400	408	May 2020	Android 10	Color OS 7	New
	Samsung Galaxy Fold 2 5G	XL	7.6	1768 x 2208	373	September 2020	Android 10	One UI 2.5	New
	Oppo Find X3 Pro	L	6.70	1440 x 3216	525	March 2021	Android 11	ColorOS 11.2	New

MOBILE DEVICE INDEX: INDIA

	Device Model	Screen Family	Screen Size	Screen Resolution	PPI	Release Date	Recommended OS	Stock OS/ Custom OS	Status
ESSENTIAL	Xiaomi Redmi Note 8	L	6.3	1080 x 2340	409	October 2019	Android 10	MIUI 12	▲
	Samsung Galaxy A50s	L	6.4	1080 x 2340	403	September 2019	Android 10	One UI 2	▼
	Apple iPhone 11	L	6.1	828 x 1792	326	September 2019	iOS Latest	NA	▲
	Xiaomi Redmi Note 9 Pro	L	6.67	1080 x 2400	395	March 2020	Android 10	MIUI 11	▲
	Samsung Galaxy S10+	L	6.4	1440 x 3040	522	February 2019	Android 10	One UI 2	▲
	Xiaomi Redmi Note 7 Pro	L	6.3	1080 x 2340	409	March 2019	Android 10	MIUI 11	▲
	Xiaomi Redmi Note 10	XL	6.43	1080 x 2400	409	March 2021	Android 11	MIUI 12	New
	Samsung Galaxy S21 5G	XL	6.20	1080 x 2400	421	January 2021	Android 11	One UI 3.1	New
	Xiaomi Poco M3 Pro 5G	XL	6.50	1080 x 2400	405	March 2021	Android 11	MIUI 12	▲
	Google Pixel 4A	L	5.81	1080 x 2340	443	August 2020	Android 11	Stock	New
ENHANCED	Apple iPhone 11 Pro	L	5.8	1125 x 2436	458	September 2019	iOS Latest	NA	▲
	Samsung Galaxy S20 +	L	6.7	1440 x 3200	522	March 2020	Android 10	One UI 2	▲
	Vivo Y73S	L	6.44	1080 x 2400	409	October 2020	Android 10	Funtouch 10.5	▲
	Huawei Mate P30 Pro	L	6.47	1080 x 2340	398	March 2019	Android 9	EMUI 10	▼
	Samsung Galaxy M31	L	6.4	1080 x 2340	411	March 2020	Android 10	One UI 2	▲
	OnePlus Nord	XL	6.44	1080 x 2400	408	August 2020	Android 10	Oxygen OX 10.5.4	▲
	Apple iPhone 12	XL	6.10	1170 x 2532	460	October 2020	iOS Latest	NA	▲
	Apple iPhone 11 Pro Max	L	6.5	1242 x 2688	458	September 2019	iOS Latest	NA	▲
	Motorola Moto G30	L	6.50	720 x 1600	269	March 2021	Android 11	Stock	New
	Vivo X50 Pro	L	6.56	1080 x 2376	398	June 2020	Android 10	Funtouch 10.5	▲
	Oppo A53	L	6.5	720 x 1600	270	August 2020	Android 10	ColorOS 7.2	▲
	Realme 8 Pro	L	6.40	1080 x 2400	411	March 2021	Android 11	Realme UI 2.0	New
	Apple iPhone 12 Pro	XL	6.10	1170 x 2532	460	October 2020	iOS Latest	NA	▲
	Samsung Galaxy Note 20 Ultra 5G	L	6.9	1440 x 3088	496	August 2020	Android 10	One UI 2.5	▲
	Oppo Reno 4 Pro 5G	L	6.55	1080 x 2400	402	June 2020	Android 10	ColorOS 7.2	▲
EXTENDED	Xiaomi Mi 11	XL	6.81	1440 x 3200	515	January 2021	Android 11	MIUI 12.5	New
	Apple iPhone 8 Plus	L	5.5	1080 x 1920	401	September 2017	iOS Latest	NA	▼
	Realme 6 Pro	L	6.6	1080 x 2400	399	March 2020	Android 10	Realme UI 1.0	▼
	Realme GT 5G	L	6.43	1080 x 2400	409	March 2021	Android 11	Realme UI 2.0	▲
	Xiaomi Poco X2	L	6.67	1080 x 2400	395	February 2020	Android 10	MIUI 12	▼
	Apple iPhone 12 Pro Max	L	6.7	1242 x 2688	442	November 2020	iOS latest	NA	▲
	OnePlus 9 Pro	XL	6.70	1440 x 3216	525	March 2021	Android 11	OxygenOS 11.2.6.6	New

MOBILE DEVICE INDEX: SINGAPORE

	Device Model	Screen Family	Screen Size	Screen Resolution	PPI	Release Date	Recommended OS	Stock OS/ Custom OS	Status
ESSENTIAL	Apple iPhone 11 Pro	L	5.8	1125 x 2436	458	September 2019	iOS Latest	NA	▲
	Apple iPhone 12 Pro Max	L	6.7	1242 x 2688	442	November 2020	iOS latest	NA	New
	Samsung Galaxy Note 20 Ultra 5G	L	6.9	1440 x 3088	496	August 2020	Android 10	One UI 2.5	New
	Asus ROG Phone 5 Ultimate	L	6.78	1080 x 2448	395	April 2021	Android 11	ROG UI	New
	OnePlus 9 Pro	L	6.7	1440 x 3216	525	March 2021	Android 11	OxygenOS 11.2.6.6	New
	Apple iPhone 8 Plus	L	5.5	1080 x 1920	401	September 2017	iOS Latest	NA	▼
	Apple iPhone 7	N	4.7	750 x 1334	326	September 2016	iOS Latest	NA	▼
	Apple iPhone XS Max	L	6.5	1242 x 2688	458	September 2018	iOS Latest	NA	▲
	Samsung Galaxy A32	L	6.4	1080 x 2400	411	February 2021	Android 11	OneUI 3.1	New
	Google Pixel 5 (REF)	L	5.7	1080 x 2280	444	October 2020	Android 11	Stock	=
ENHANCED	OnePlus 8T	L	6.55	1080 x 2400	402	October 2020	Android 11	OxygenOS 11.0.4	New
	Huawei P40 Pro	L	6.58	1200 x 2640	441	April 2020	Android 10	EMUI 10.1	New
	Xiaomi Poco M3 Pro 5G	L	6.5	1080 x 2400	405	March 2021	Android 11	MIUI 12	New
	Xiaomi Mi 11	L	6.81	1440 x 3200	515	January 2021	Android 11	MIUI 12.5	New
	Huawei P40 Pro	L	6.58	1200 x 2640	441	April 2020	Android 10	EMUI 10.1	New
	Samsung Galaxy S21 5G	L	6.2	1080 x 2400	421	January 2021	Android 11	One UI 3.1	New
	Apple iPhone 12	L	6.1	1170 x 2532	460	October 2020	iOS Latest	NA	New
	Huawei P30 Lite	L	6.15	1080 x 2312	415	April 2019	Android 10	EMUI 10	New
	Vivo Y30	L	6.47	720 x 1560	266	May 2020	Android 10	Funtouch 10.0	New
	Apple iPhone SE (2020)	N	4.7	750 x 1334	326	April 2020	iOS Latest	NA	New
	Xiaomi Redmi Note 9 Pro	L	6.67	1080 x 2400	395	March 2020	Android 10	MIUI 11	▲
	Samsung Galaxy S20 FE 5G	L	6.5	1080 x 2400	407	October 2020	Android 10	One UI 2.5	New
	Samsung Galaxy A70	L	6.7	1080 x 2400	393	April 2019	Android 10	One UI 2	▼
	Samsung Galaxy F52	L	6.6	1080 x 2408	400	May 2021	Android 11	OneUI 3.1	New
	Vivo X60	L	6.56	1080 x 2376	398	April 2021	Android 11	Funtouch 11.1	New
EXTENDED	Vivo Y72	L	6.58	1080 x 2408	401	March 2021	Android 11	Funtouch 11.1	New
	Samsung A30s	L	6.4	720 x 1560	268	September 2019	Android 10	OneUI 2.0	New
	Huawei Y6P	L	6.3	720 x 1600	278	May 2020	Android 10	EMUI 10.1	New
	Apple iPhone 8 Plus	L	5.5	1080 x 1920	401	September 2017	iOS Latest	NA	▼
	Samsung Galaxy S9	L	5.8	1440 x 2960	570	March 2018	Android 9	One UI 2	▼
	Samsung Galaxy Note 20	L	6.7	1080 x 2400	393	August 2020	Android 10	One UI 2.5	New
	Apple iPad Pro 11 (2021)	XL	11	1668 x 2388	265	May 2021	iOS Latest	NA	New



MOBILE MARKET CALENDAR 2021

OS

June	July	August	September	October	November	December
iOS 15 Beta			iOS15			
			Android 12 GA			

Devices

June	July	August	September	October	November	December
Samsung Galaxy F52	Xiaomi Poco X3 GT	Samsung Galaxy Z Fold 3	Apple iPhone 13	Google Pixel 6	Samsung Galaxy A42 5G	
Samsung Galaxy Tab A7	Samsung Galaxy A22 5G	Samsung Galaxy Z Flip 3	Apple iPhone 13 Mini	Google Pixel 5A 5G		
Samsung Galaxy Tab A7 FE	Huawei MatePad 11	Huawei P50	Apple iPhone 13 Pro	Huawei Mate 50 Pro		
Realme X7 Max 5G	Sony Xperia 1 III	Huawei P50 Pro	Apple iPhone 13 Pro Max			
Realme GT Neo Flash	Sony Xperia 5 III					
Realme Narzo 30 5G	Sony Xperia 10 III					
Xiaomi Redmi Note 10 Pro	Huawei MatePad Pro 12.6"					
Vivo Y70T	Huawei MatePad Pro 10.8"					
Vivo Y52 5G	Huawei Nova 8 Pro 4G					
OnePlus Nord CE 5G	Honor 50					
Oppo Reno6 Pro 5G	Xiaomi Poco X4					
Oppo Reno6 Pro+ 5G						
Oppo K9						
Honor Play 20						
Xiaomi Mi 11X Pro						
Xiaomi Poco M3 Pro 5G						
Motorola Moto G20						
Nokia X10						

WEB & OS RECOMMENDATIONS

Here you will find a list of browser/OS combinations — categorized by latest, previous, and newest beta — that organizations in every country should test on to achieve the desired market coverage.

Given that browser versions update quickly and often automatically without users knowing, it is important to ensure that browser quality aligns with a variety of OS versions.

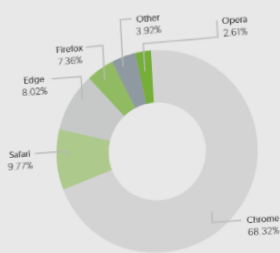
TEST COVERAGE INDEX

TEST COVERAGE INDEX

GLOBAL WEB INDEX

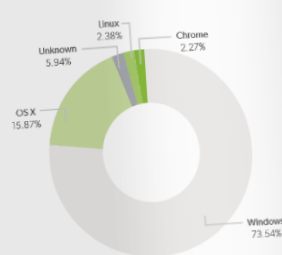
Desktop Browser Popularity and Market Share

Browser Market Share Worldwide - May 2021



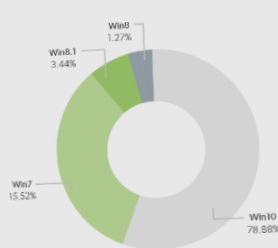
Desktop OS Market Share and Popularity

Operating System Market Share Worldwide - May 2021



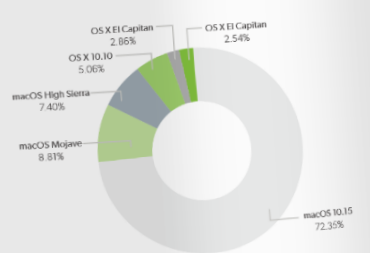
Windows OS Families Market Share and Popularity Breakdown

Desktop Windows Version Market Share Worldwide - May 2021



MacOS Families Market Share and Popularity Breakdown

Desktop macOS Version Market Share Worldwide - May 2021



Source: gs.statcounter.com/browser-market-share



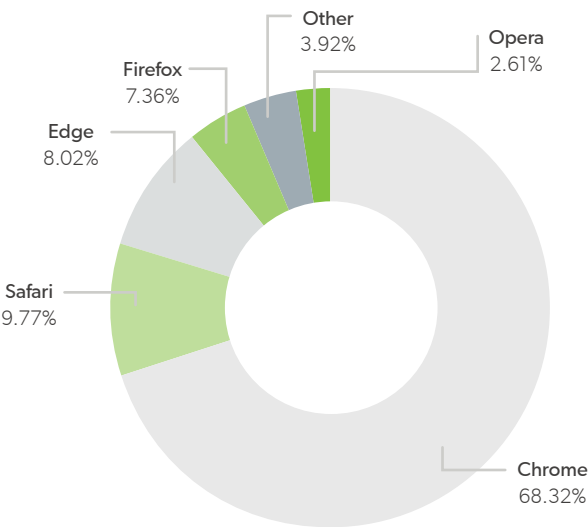
BROWSER CALENDAR 2021

	Jun	July	Aug	Sep	Oct	Nov	Dec
Chrome	91 92 Beta	92 93 Beta	93 94 Beta	94 95 Beta	95 96 Beta	96 97 Beta	97 98 Beta
Firefox	89 90 Beta	90 91 Beta	91 92 Beta	92 93 Beta	93 94 Beta	94 95 Beta	95 96 Beta
Safari	14.1						
Edge	Beta 92	92	93	94	95	96	97
Desktop OS	Mac OS Big Sur 11.4	Mac OS Big Sur 11.4.1	Mac OS Big Sur 11.4.2	Mac OS 12 Release			

GLOBAL WEB INDEX

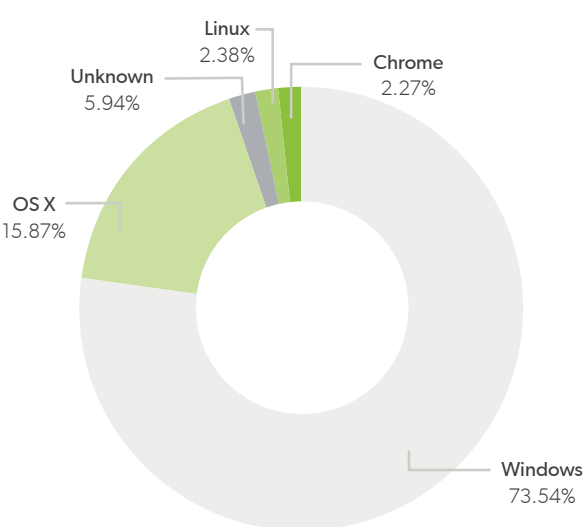
Desktop Browser Popularity and Market Share

Browser Market Share Worldwide - May 2021



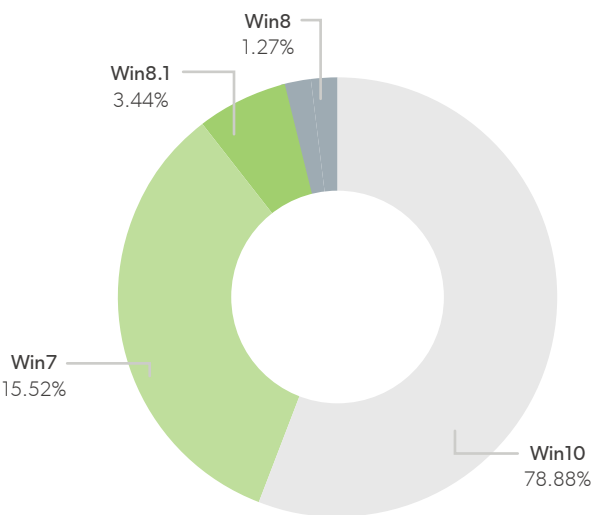
Desktop OS Market Share and Popularity

Operating System Market Share Worldwide - May 2021



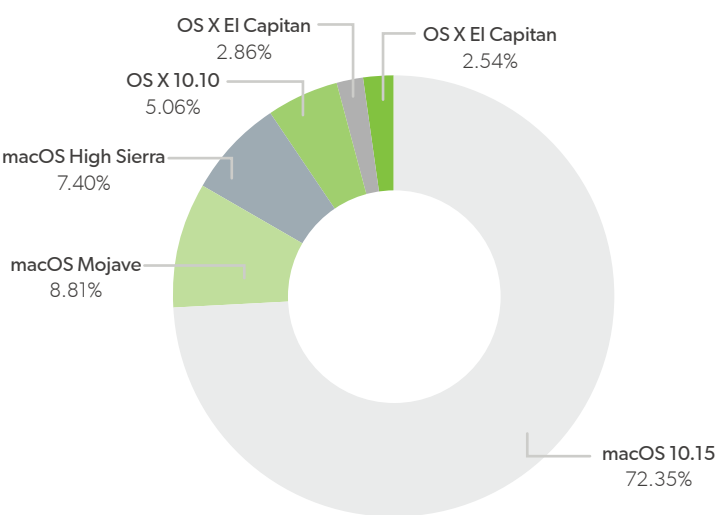
Windows OS Families Market Share and Popularity Breakdown

Desktop Windows Version Market Share Worldwide - May 2021



MacOS Families Market Share and Popularity Breakdown

Desktop macOS Version Market Share Worldwide - May 2021



Source: gs.statcounter.com/browser-market-share

BROWSER INDEX BY DESKTOP OS

	Browser OS Version		Desktop OS Version
ESSENTIAL	Chrome Latest	Chrome Latest -1	Windows 8.1
	Chrome Latest	Chrome Latest -1	Windows 10
	Firefox Latest	Firefox Latest -1	Windows 8.1
	Firefox Latest	Firefox Latest -1	Windows 10
	Edge Latest	Edge Latest-1	Windows 8.1
	Edge Latest	Edge Latest-1	Windows 10
	Safari Latest	Safari Latest -1	MacOS Latest
	Safari Latest	Safari Latest -1	MacOS Latest -1
	Chrome Latest	Chrome Latest -1	MacOS Latest
	Chrome Latest	Chrome Latest -1	MacOS Latest -1
	Firefox Latest	Firefox Latest -1	MacOS Latest
	Firefox Latest	Firefox Latest -1	MacOS Latest-1
ENHANCED	Chrome Latest	Chrome Latest -1 up to latest -6	Windows 8.1
	Chrome Latest	Chrome Latest -1 up to latest -6	Windows 10
	Firefox Latest	Firefox Latest -1 up to latest -6	Windows 8.1
	Firefox Latest	Firefox Latest -1 up to latest -6	Windows 10
	Edge Latest	Edge Latest -1 up to latest -6	Windows 8.1
	Edge Latest	Edge Latest -1 up to latest -6	Windows 10
	Safari Latest	Safari Latest -1 up to latest -6	MacOS Latest
	Safari Latest	Safari Latest -1 up to latest -6	MacOS Latest -1
	Chrome Latest	Chrome Latest -1 up to latest -6	MacOS Latest
	Chrome Latest	Chrome Latest -1 up to latest -6	MacOS Latest -1
	Firefox Latest	Firefox Latest -1 up to latest -6	MacOS Latest
	Firefox Latest	Firefox Latest -1 up to latest -6	MacOS Latest-1
EXTENDED	Chrome Latest	Chrome Latest -1 up to latest -6	Windows 7
	Chrome Latest	Chrome Latest -1 up to latest -6	Windows 8.1
	Chrome Latest	Chrome Latest -1 up to latest -6	Windows 10
	Firefox Latest	Firefox Latest -1 up to latest -6	Windows 7
	Firefox Latest	Firefox Latest -1 up to latest -6	Windows 8.1
	Firefox Latest	Firefox Latest -1 up to latest -6	Windows 10
	Edge Latest	Edge Latest -1 up to latest -6	Windows 8.1
	Edge Latest	Edge Latest -1 up to latest -6	Windows 10
	Safari Latest	Safari Latest -1 up to latest -6	MacOS Latest
	Safari Latest	Safari Latest -1 up to latest -6	MacOS Latest -1
	Safari Latest	Safari Latest -1 up to latest -6	MacOS Latest -2
	Chrome Latest	Chrome Latest -1 up to latest -6	MacOS Latest
	Chrome Latest	Chrome Latest -1 up to latest -6	MacOS Latest -1
	Chrome Latest	Chrome Latest -1 up to latest -6	MacOS Latest -1
	Firefox Latest	Firefox Latest -1 up to latest -6	MacOS Latest
	Firefox Latest	Firefox Latest -1 up to latest -6	MacOS Latest-1
	Firefox Latest	Firefox Latest -1 up to latest -6	MacOS Latest-1



BROWSER CALENDAR 2021

	Jun	July	Aug	Sep	Oct	Nov	Dec
Chrome	91 92 Beta	92 93 Beta	93 94 Beta	94 95 Beta	95 96 Beta	96 97 Beta	97 98 Beta
Firefox	89 90 Beta	90 91 Beta	91 92 Beta	92 93 Beta	93 94 Beta	94 95 Beta	95 96 Beta
Safari	14.1						
Edge	Beta 92	92	93	94	95	96	97
Desktop OS	Mac OS Big Sur 11.4	Mac OS Big Sur 11.4.1	Mac OS Big Sur 11.4.2	MacOS 12 Release			

ABOUT PERFECTO

Perfecto powers exceptional digital experiences by combining the power of flexible test authoring, cross-platform execution, and AI-driven analytics into one secure, cloud-based web & mobile testing platform.

With Perfecto, all teams – developers, business testers, SDETs, and managers – can contribute to quality while increasing automation, reducing defects, lowering cost per execution, and accelerating release cycles.

Our customers, which include over half of the Fortune 500, trust Perfecto technology and testing experts to help them release world-class functionality and deliver on their brand promise.

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We'd love to discuss how Perfecto can help you overcome your most difficult testing obstacles.

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