

Document: Data for Various Chart Types in the Smartphone Industry

Introduction

This document provides detailed artificial data sets for various chart types using the context of the smartphone industry. Each dataset is designed to represent different aspects and metrics within this industry, ensuring that real names and categories are used instead of generic placeholders.

1. Line Chart: Monthly Sales Performance of Leading Smartphone Brands

Data:

Month	Apple	Samsung	Xiaomi	Oppo
Jan	2500	3000	1800	1600
Feb	2700	3200	1900	1700
Mar	2900	3400	2000	1800
Apr	3100	3600	2100	1900
May	3300	3800	2200	2000
Jun	3500	4000	2300	2100
Jul	3700	4200	2400	2200
Aug	3900	4400	2500	2300
Sep	4100	4600	2600	2400
Oct	4300	4800	2700	2500
Nov	4500	5000	2800	2600
Dec	4700	5200	2900	2700

2. Bar Chart: Market Share by Region for Top Smartphone Manufacturers

Data:

Region	Apple	Samsung	Xiaomi	Oppo
North America	40%	30%	15%	10%
Europe	35%	35%	15%	10%
Asia	20%	40%	25%	10%
Africa	10%	45%	25%	15%

Region	Apple	Samsung	Xiaomi	Oppo
South America	15%	40%	25%	15%

3. Pie Chart: Distribution of Operating Systems Used by Smartphones

Data:

Operating System	Percentage
Android	70%
iOS	25%
Others	5%

4. Scatter Plot: Correlation Between Battery Life and Price for Popular Smartphone Models

Data:

Model	Battery Life (hours)	Price (USD)
iPhone 13 Pro	12	1099
Galaxy S21 Ultra	14	1199
OnePlus 9 Pro	13	969
Mi 11 Ultra	15	1199
Find X3 Pro	14	1149

5. Histogram: Distribution of Screen Sizes for Smartphones Released in 2023

Data:

Screen Size (inches)	Frequency
5.0-5.5	15
5.5-6.0	30
6.0-6.5	50
6.5-7.0	25
>7.0	10

6. Box Plot: Comparison of Camera Quality Ratings Among Different Smartphone Brands

Data:

Brand	Camera Quality Ratings
Apple	85, 88, 90, 92, 95
Samsung	80, 85, 87, 90, 93
Xiaomi	78, 82, 85, 88, 91
Oppo	75, 80, 83, 86, 89

7. Heatmap: User Satisfaction Scores Across Different Features of Smartphones

Data:

Feature \ Brand	Apple	Samsung	Xiaomi	Oppo
Display	90	88	85	80
Battery Life	85	90	88	82
Camera	92	91	87	85
Performance	91	90	86	83
Build Quality	88	89	84	81

8. 3D Scatter Plot: Relationship Between RAM, Storage, and Price for High-End Smartphones

Data:

Model	RAM (GB)	Storage (GB)	Price (USD)
iPhone 13 Pro	6	128	1099
Galaxy S21 Ultra	12	256	1199
OnePlus 9 Pro	12	256	969
Mi 11 Ultra	12	512	1199
Find X3 Pro	12	256	1149

9. Surface Plot: Impact of Marketing Spend and R&D Investment on Sales Growth

Data:

Marketing Spend (M USD)	R&D Investment (M USD)	Sales Growth (%)
10	5	5
20	10	10

Marketing Spend (M USD)	R&D Investment (M USD)	Sales Growth (%)
30	15	15
40	20	20
50	25	25

10. Bubble Chart: Relationship Between Customer Loyalty, Number of Features, and Market Penetration for Smartphone Brands

Data:

Brand	Customer Loyalty (%)	Number of Features	Market Penetration (%)	Bubble Size (Market Cap in Billion USD)
Apple	90	10	40	2000
Samsung	85	12	35	1800
Xiaomi	75	11	25	1000
Oppo	70	9	20	800

Conclusion

The datasets provided cover a wide range of metrics relevant to the smartphone industry, each tailored to suit specific chart types. These data points can be used to create insightful visualizations that help in understanding market dynamics, performance indicators, and consumer behavior within the smartphone sector.