



Visualisasi Data

Disampaikan pada Webinar Nasional Untuk Guru dan Umum
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PUSAT ASESMEN DAN PEMBELAJARAN

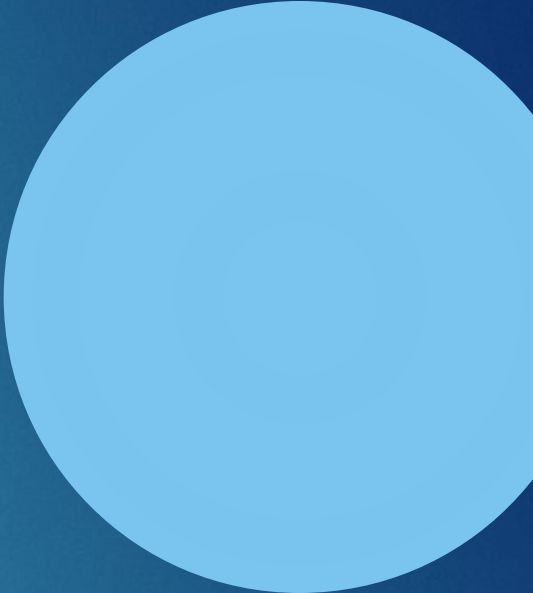
Kerangka Pembahasan

- ▶ Visualisasi data
 - ▶ Tujuan/ Fungsinya
 - ▶ Apa yang di observasi
 - ▶ pola, trend, gaps, pencilan, fokus, distribusi, pengelompokan
- ▶ Visualisasi statis
 - ▶ piktogram, plot batang-daun, diagram batang, diagram lingkaran, grafik komulatif, Gantt Chart, dendrogram, model network, diagram Venn, diagram garis, time series plot
- ▶ Visualisasi interaktif
 - ▶ elaborasi data iris
 - ▶ elaborasi data normal

Data (penyegaran)

- ▶ Data primer vs Sekunder
 - ▶ Tabel Frekuensi
 - ▶ Tabel Distribusi Frekuensi
 - ▶ Tabel Tabulasi Silang

 - ▶ Data Kualitatif dan Kuantitatif
 - ▶ Tinggi siswa: 170 cm, 1 orang; tinggi siswa 180 cm, 1 orang
 - ▶ Apel: Apel Merah, 1 buah; Apel hijau, 1 buah
 - ▶ Banyak anggota keluarga: 3 ada 1 keluarga, 4 ada 1 keluarga

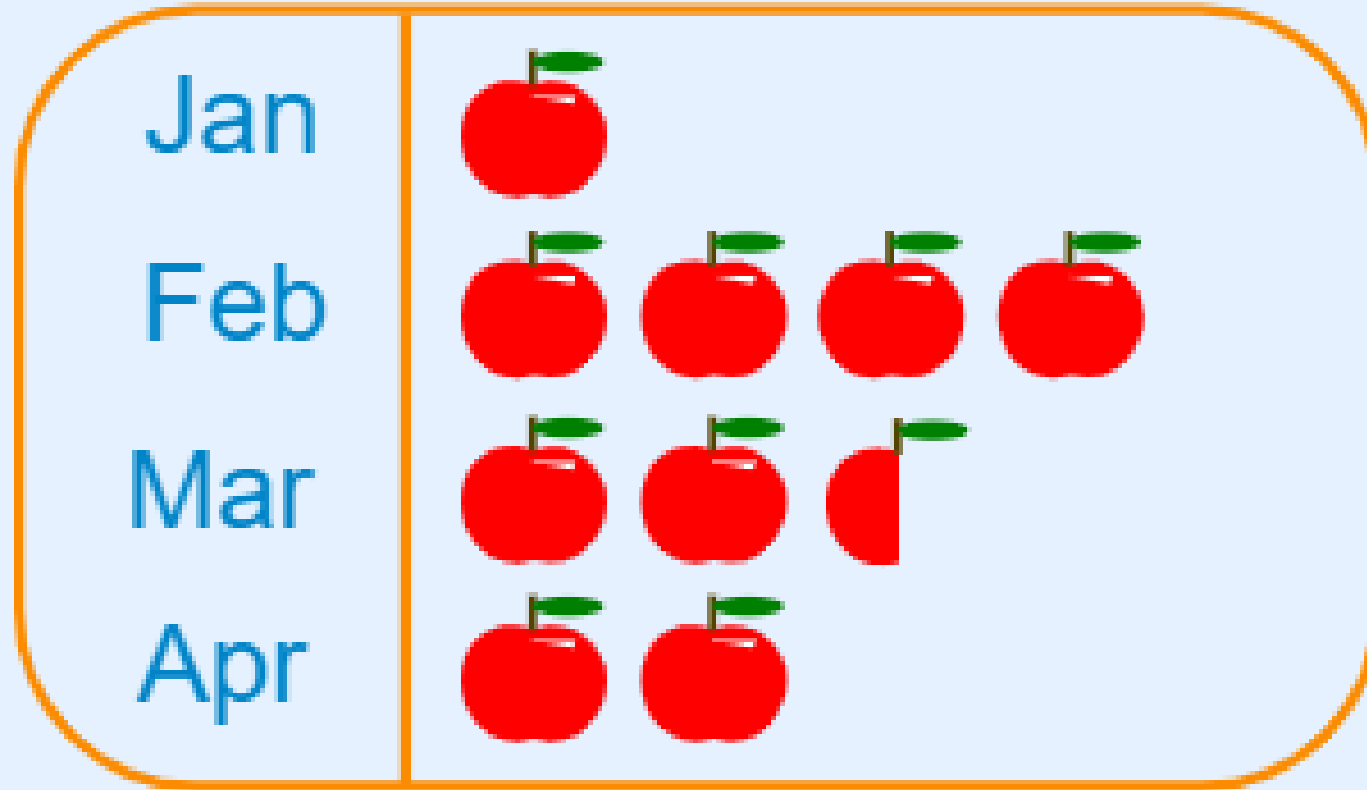
 - ▶ Amir 12 tahun: tingginya 170, beratnya 70 cm
- 



Perolehan Nilai Tes Fisika Siswa Sekolah A dan B

	Sekolah A		Sekolah B	
Nilai	Laki-laki	Perempuan	Laki-laki	Perempuan
90 – 100	5	5	15	10
80 - 89	30	10	40	15
70 - 79	20	15	35	30
60 - 69	10	30	15	45
0 - 59	5	10	10	15

Silahkan cermati data dalam tabel

Banyak Penjualan Apel Januari-April



 = 10 Apples  = 5 Apples

Banyak Siswa di 10 Kelas Sekolah X

15, 16, 21, 23, 23, 26, 26, 30, 32, 41

Stem	Leaf
1	5 6
2	1 3 3 6 6
3	0 2
4	1

*how to
place "32"*

Plot Batang-Daun

Batang "3" dan
Daun "2", berarti
"32"

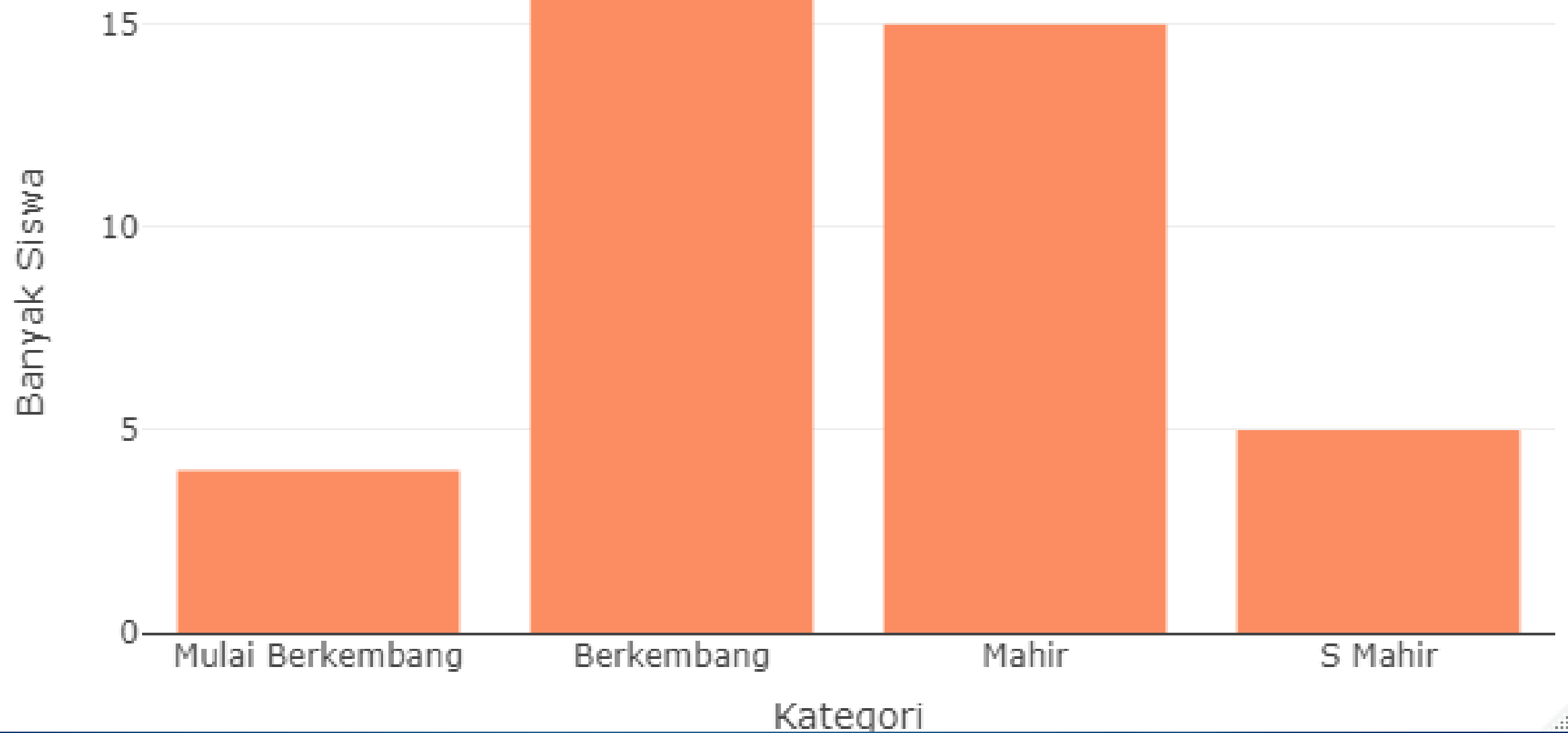
Hasil Lompat Jauh 10 Siswa (dalam m)

2.3, 2.5, 2.5, 2.7, 2.8, 3.2, 3.6, 3.6, 4.5, 5.0

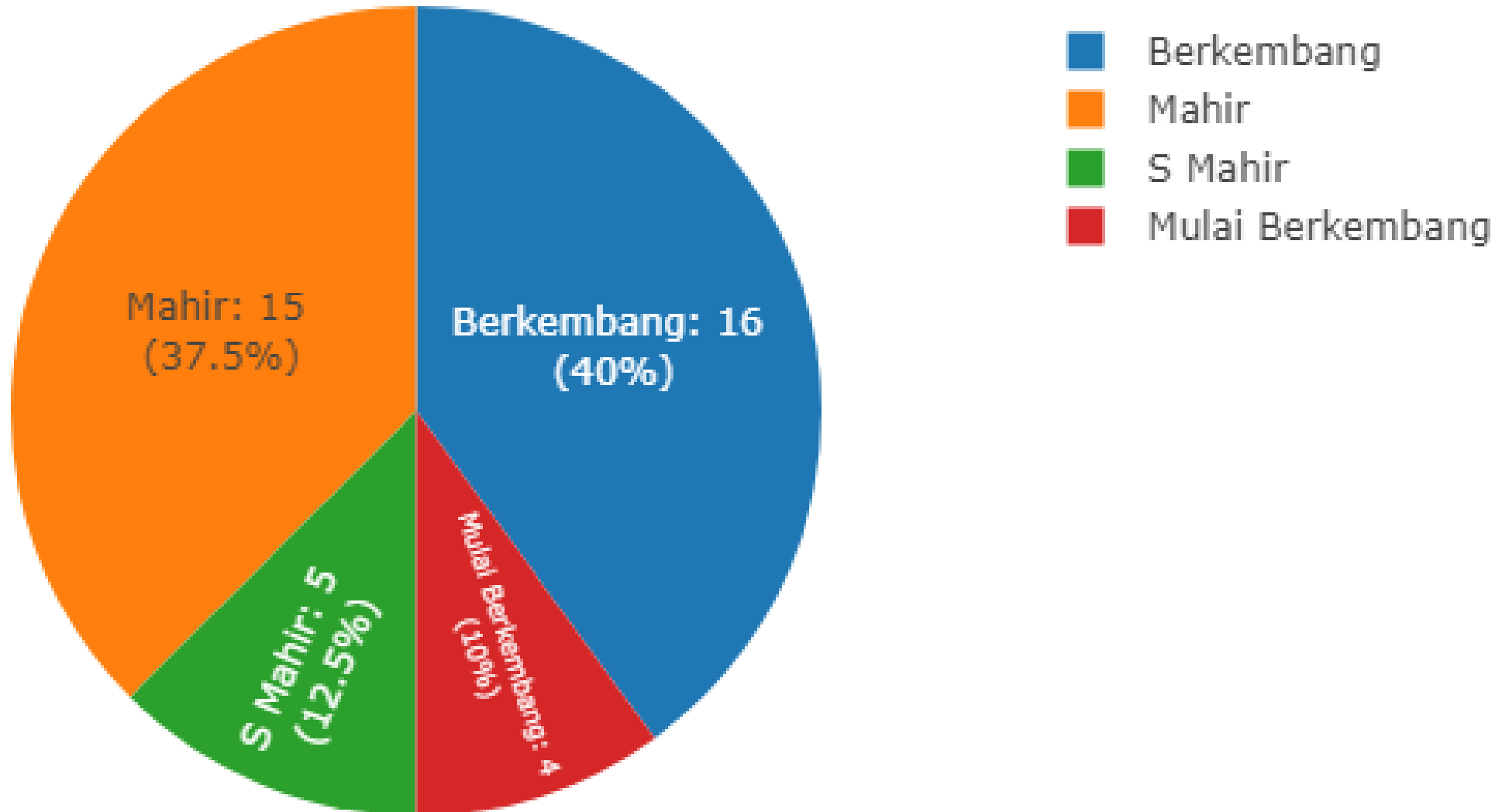
Stem	Leaf
2	3 5 5 7 8
3	2 6 6
4	5
5	0

batang "3" dan daun "6"
merujuk "36"

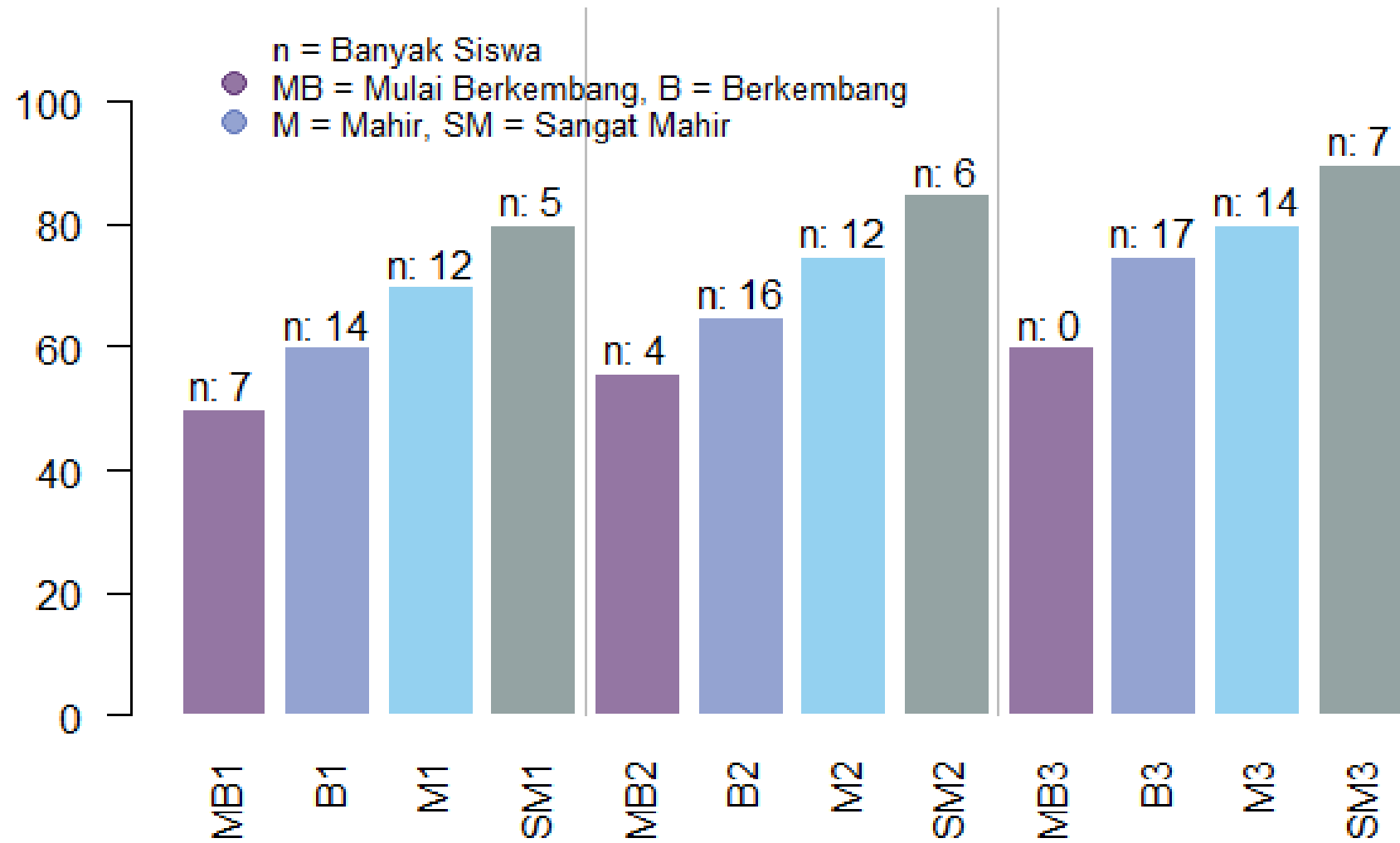
Hasil Belajar Peserta Didik Kelas VII-A



Hasil Belajar Siswa Kelas VII-A

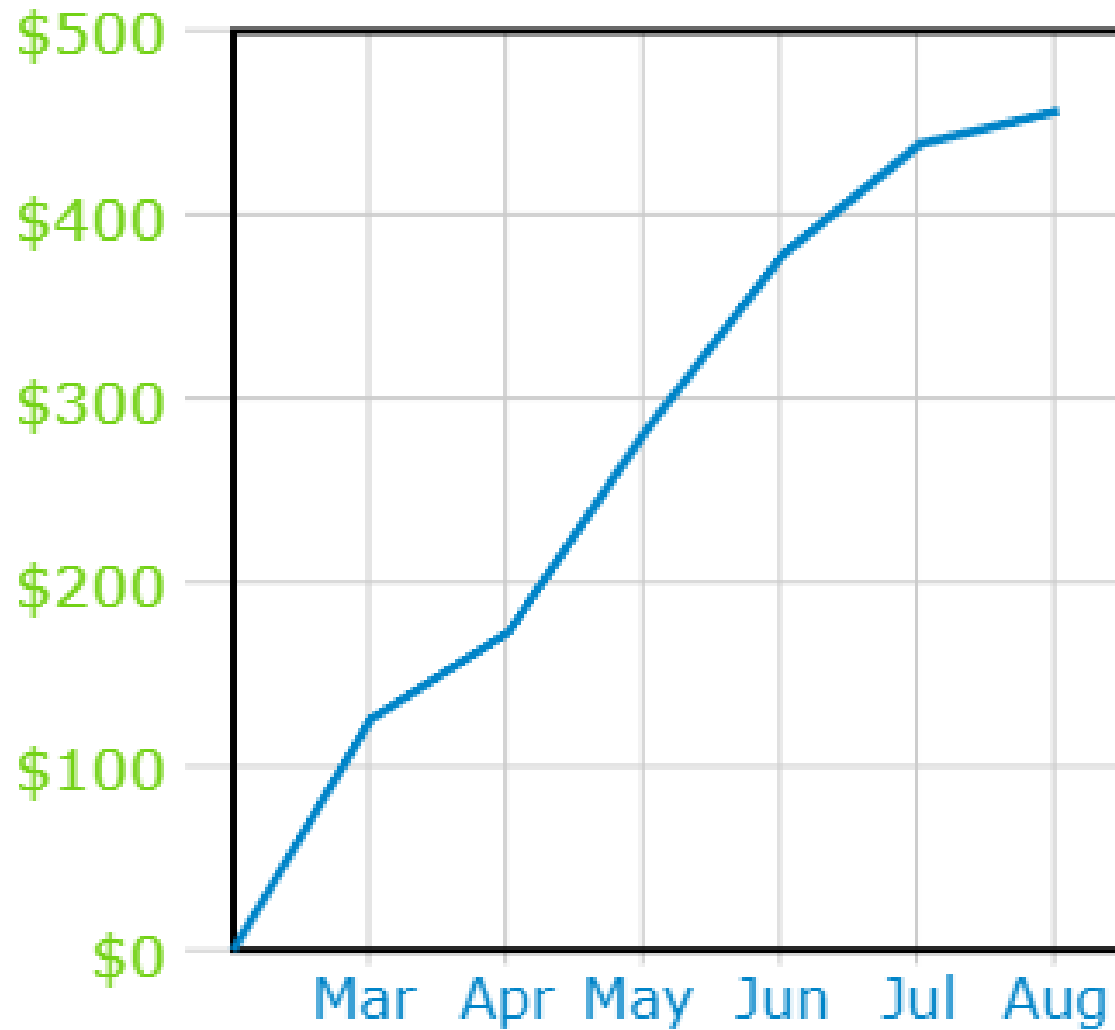


Grafik Perkembangan Belajar Siswa Kelas VII-A

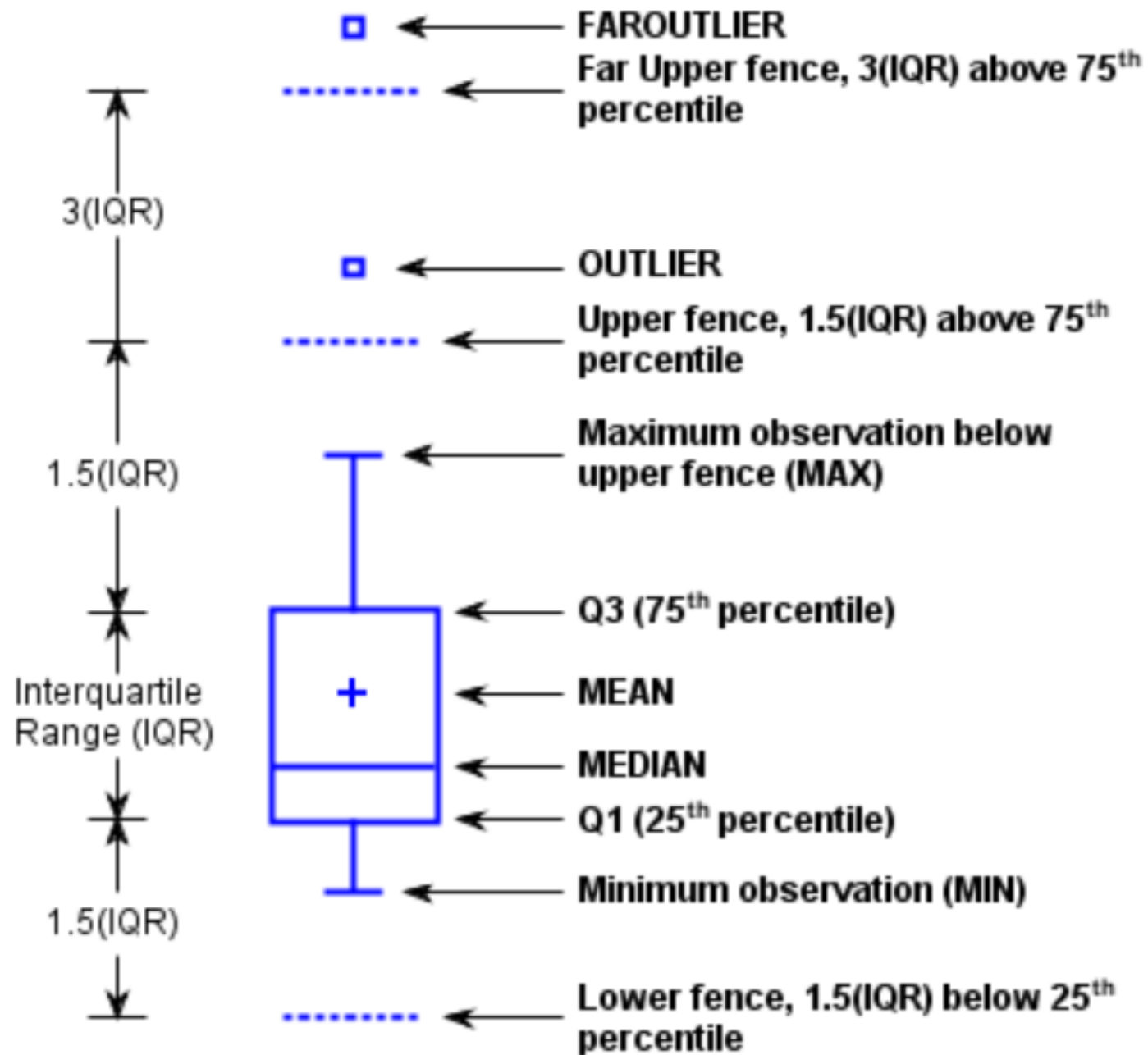


Hasil Tes Formatif 1, 2, dan 3

Andrew Saving during March-August

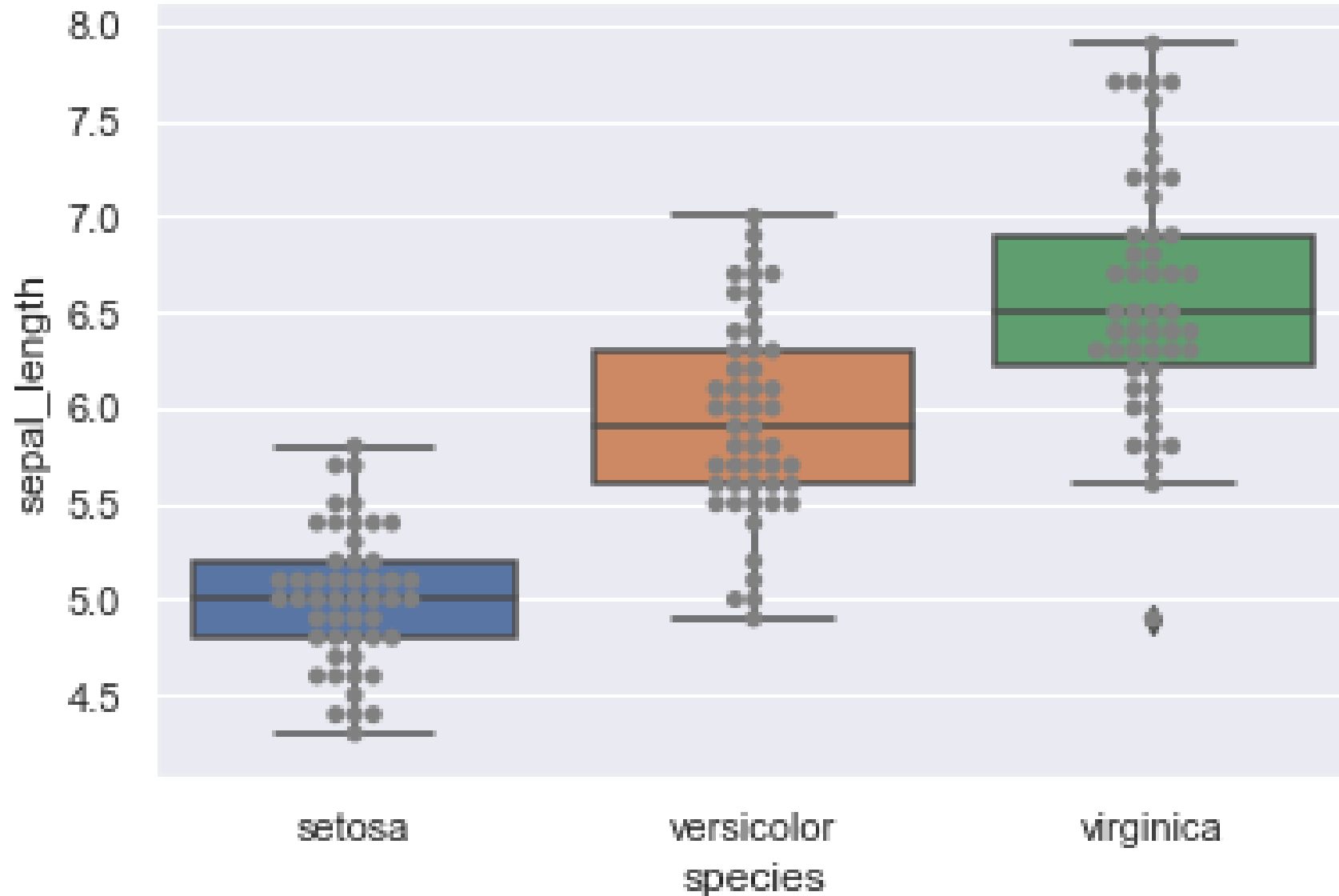


Grafik
Komulative

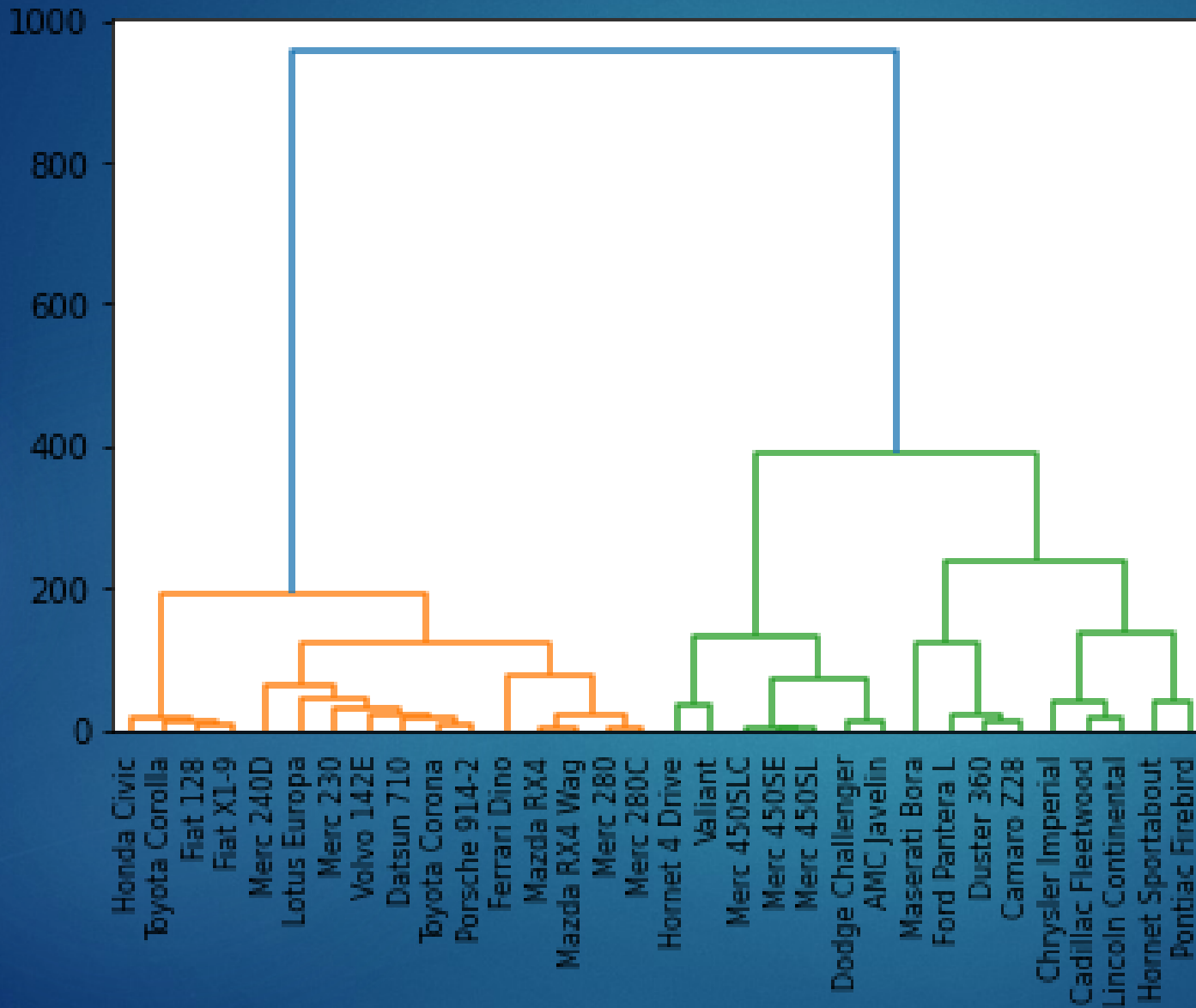


Box Plot

Plot Kotak-Garis Panjang Sepal Bunga Iris

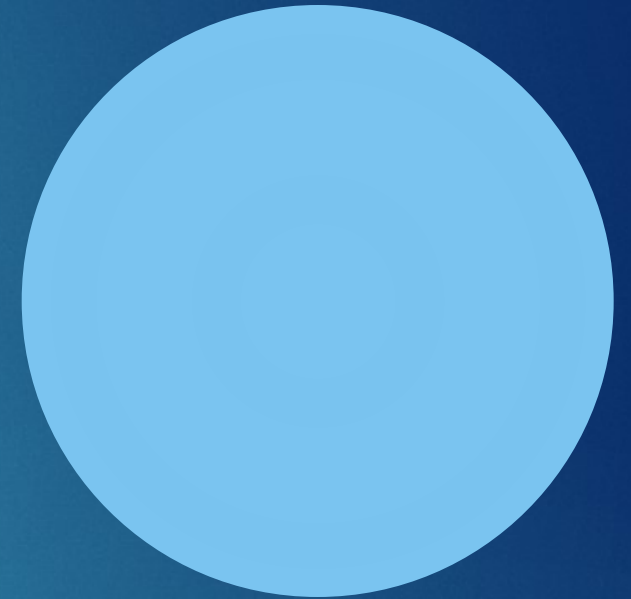
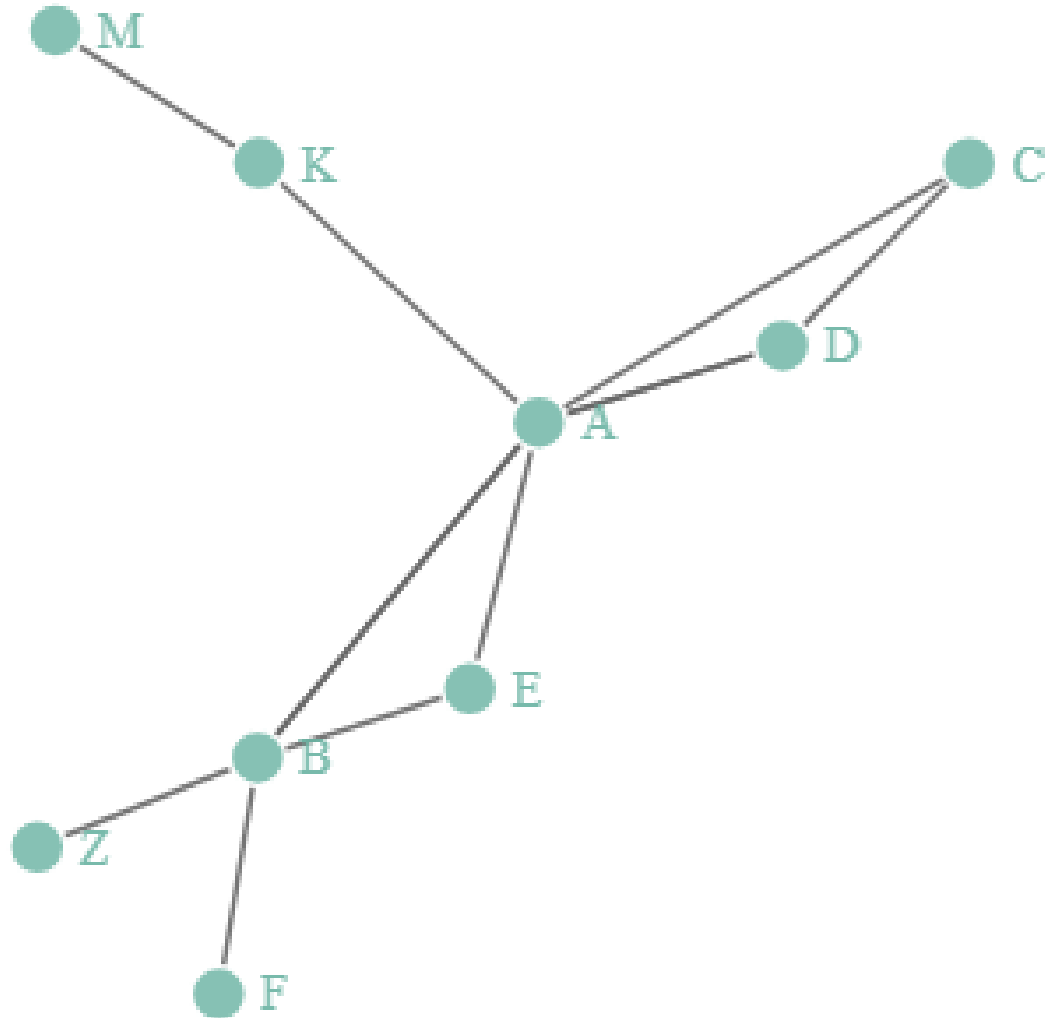


Pengelompokan Kesamaan Model Mobil

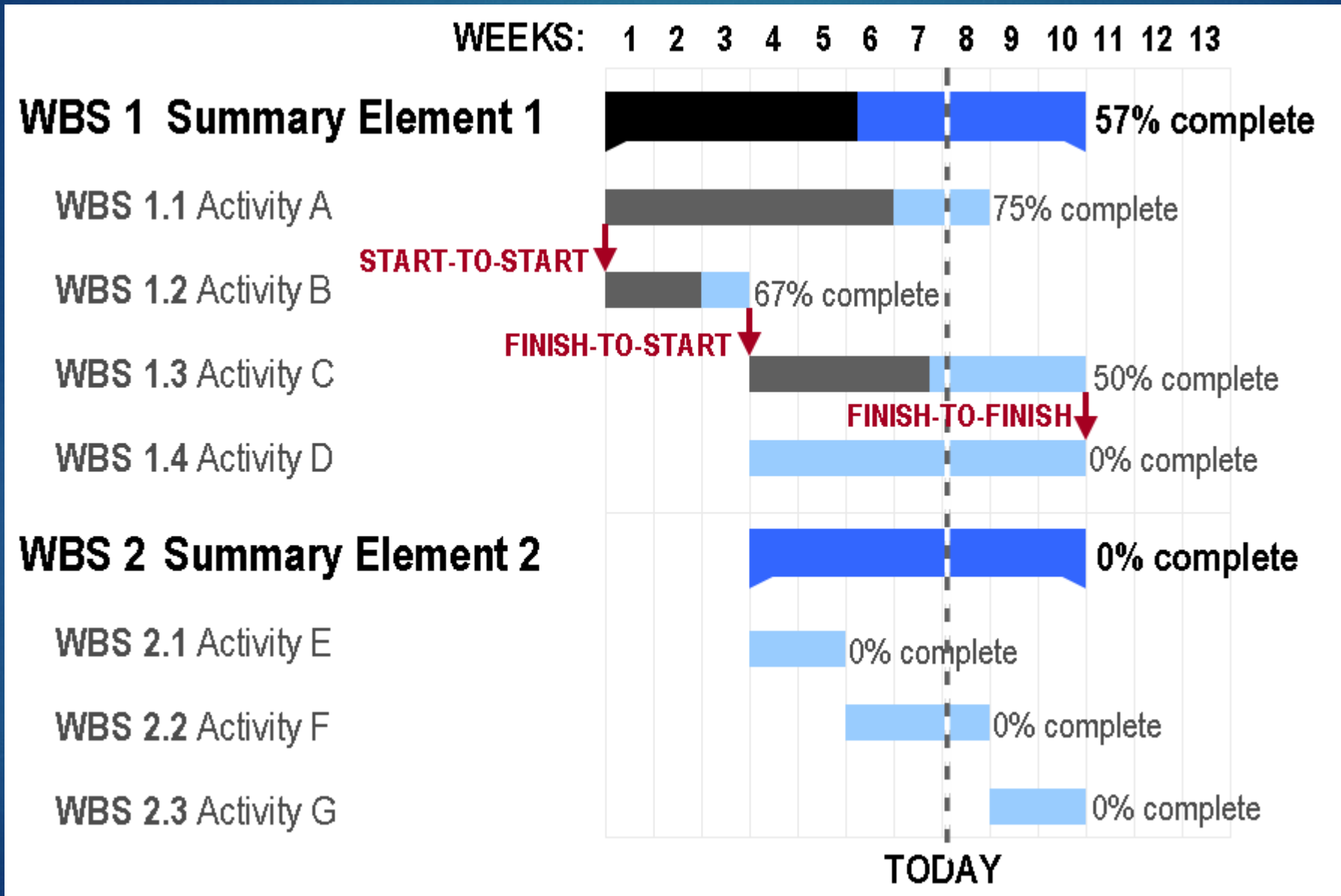


Dendrogram

Model Network



Model Gantt Chart



Huruf Kapital 3 Kode Alfabet

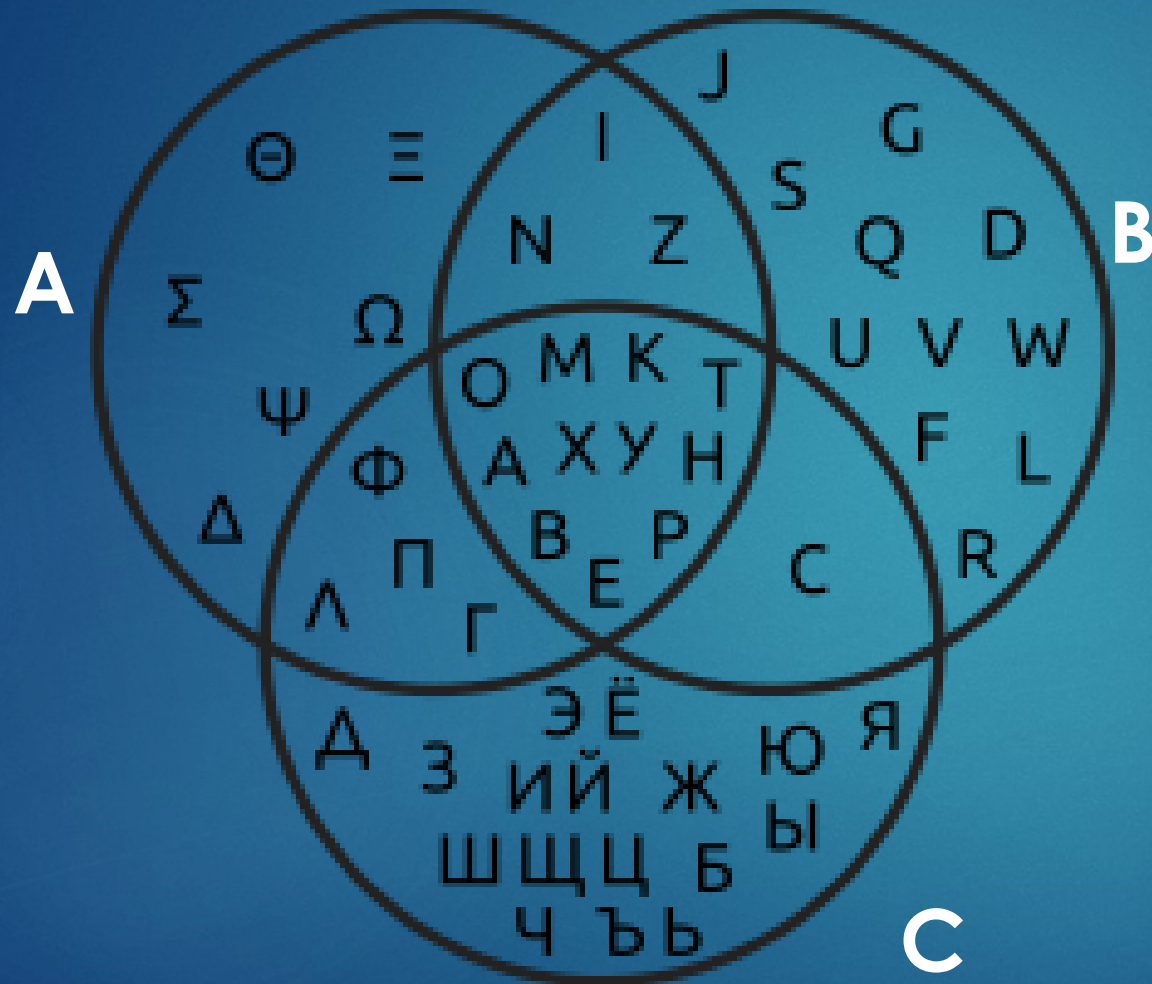
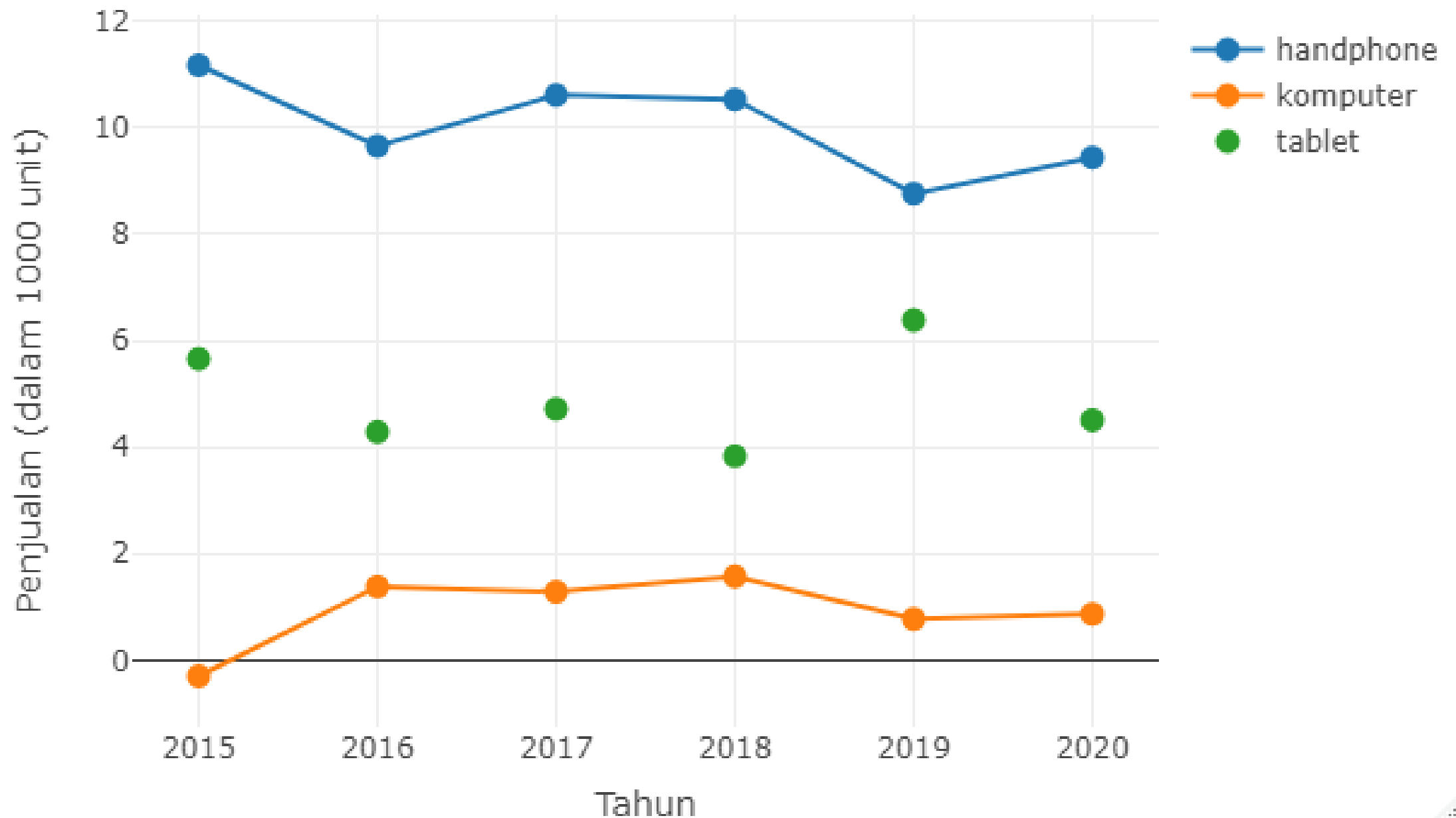
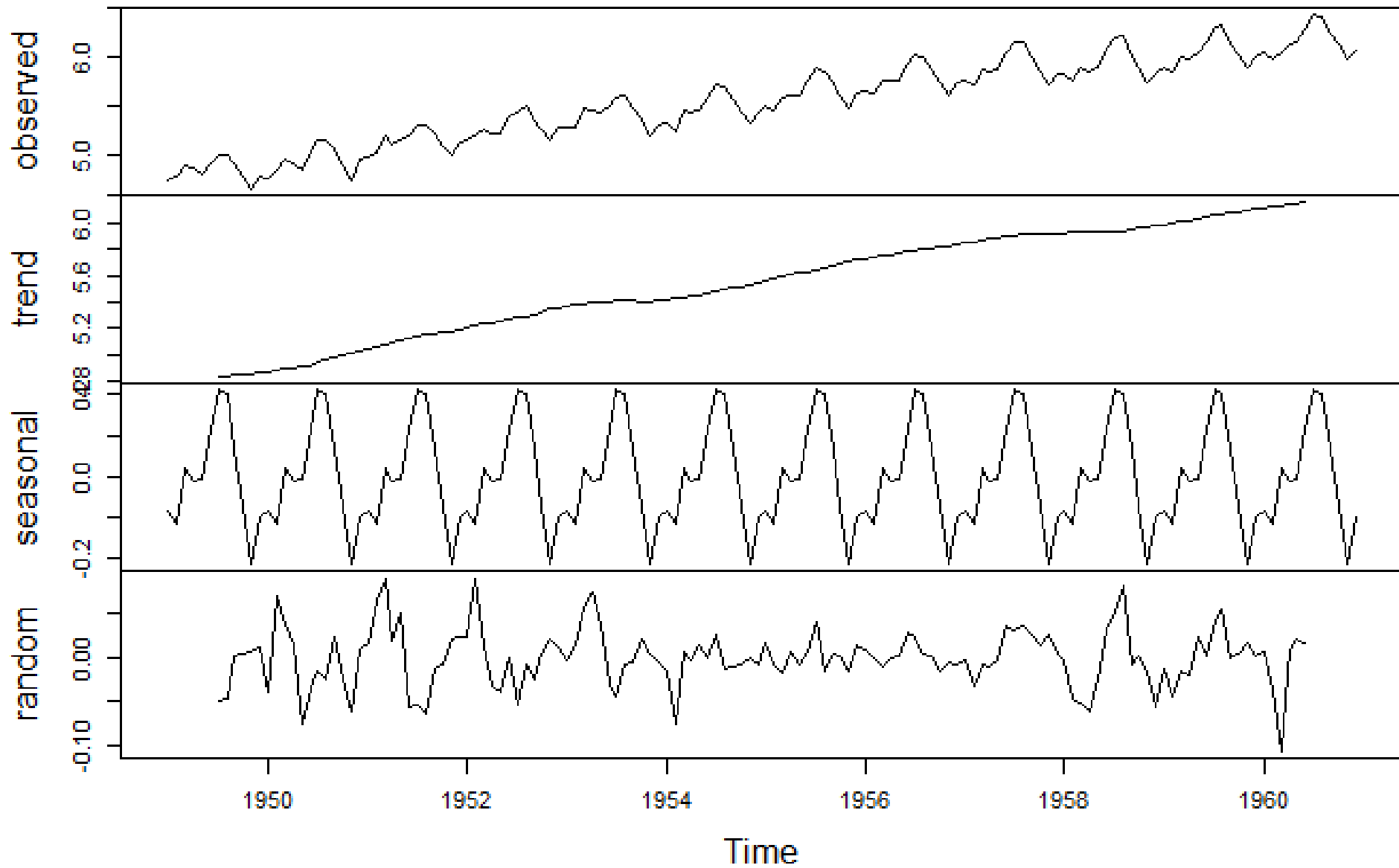


Diagram Venn

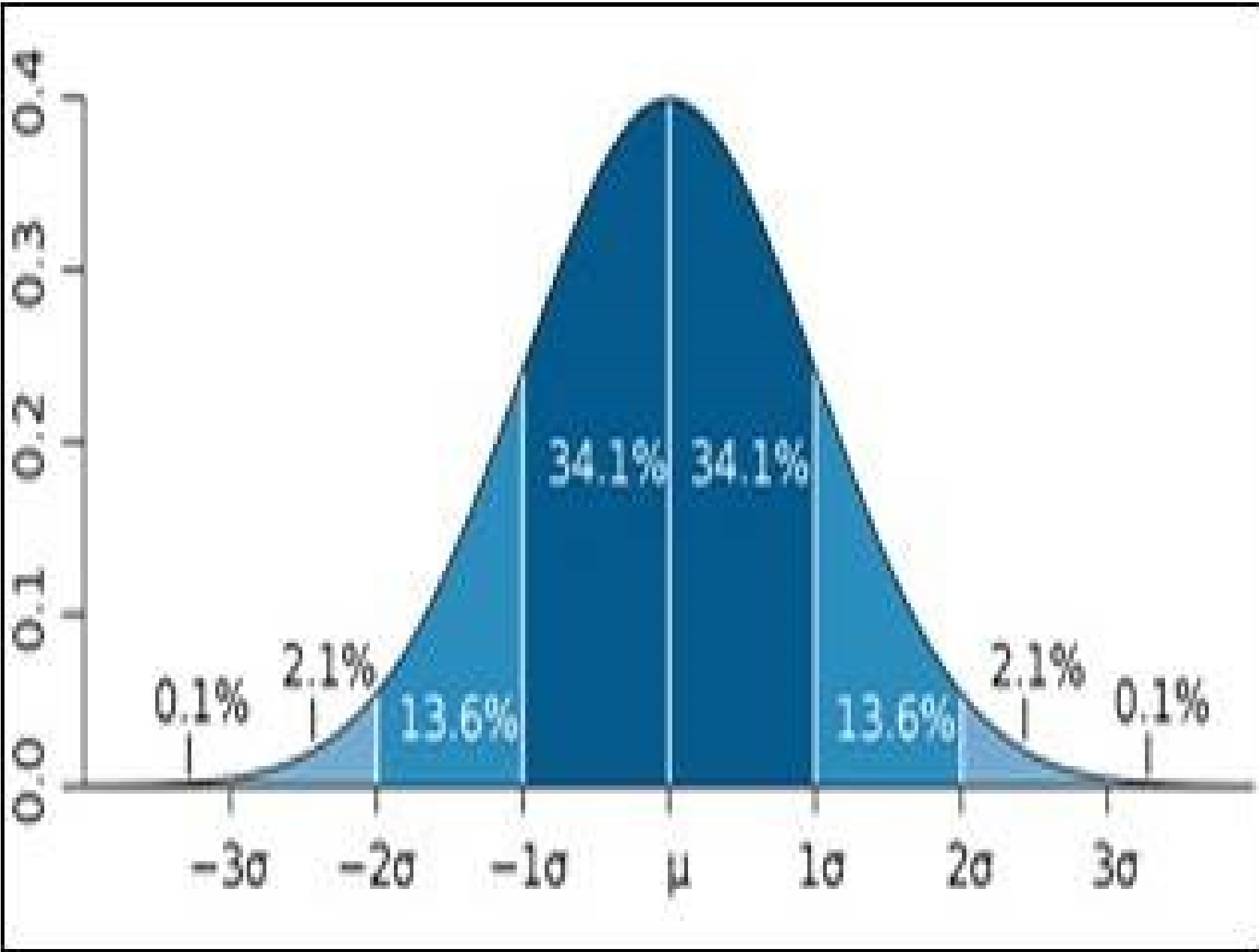
Penjualan Berdasarkan Kategori Antara 2015 & 2020



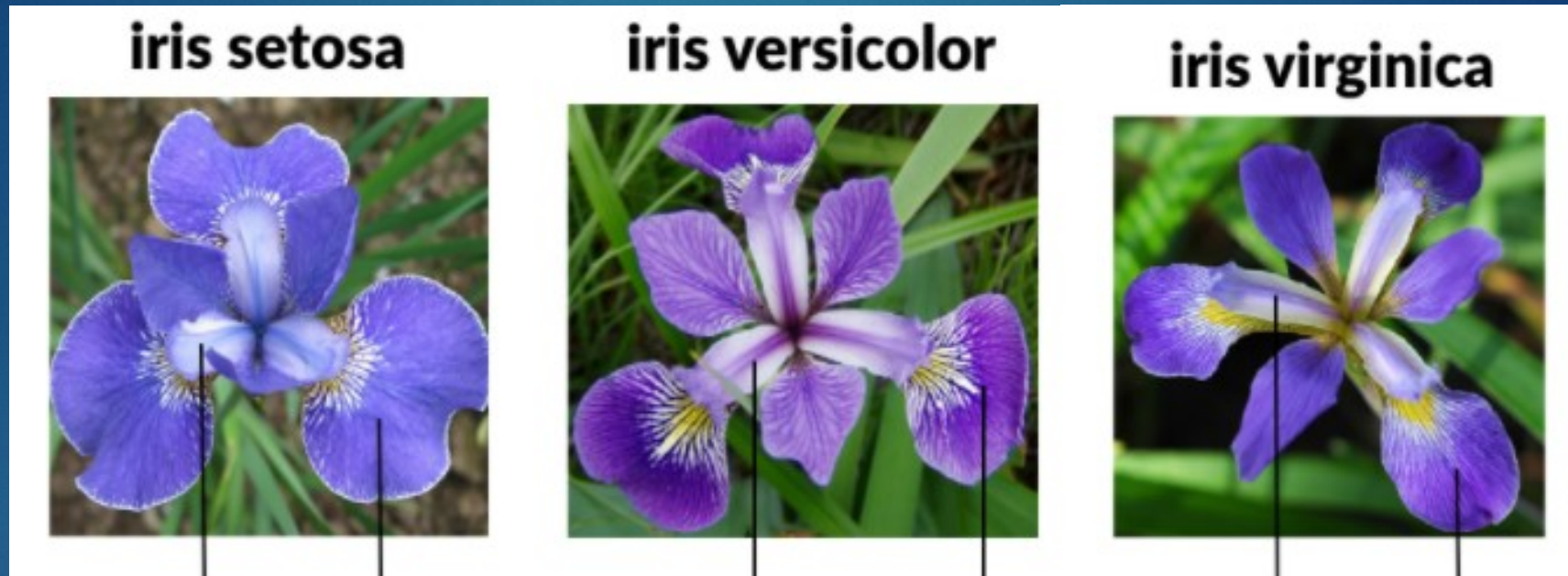
Plot Time Series



Normal Distribution



<https://machinelearninghd.com/iris-dataset-uci-machine-learning-repository-project/>
<https://www.kaggle.com/vinayshaw/iris-species-100-accuracy-using-naive-bayes>



Selanjutnya
Visualisasi data
secara Interaktif



Terima Kasih
Atas Perhatian Ibu dan Bapak