Peer Assignment
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Assignment (2.4)

1. import **pandas** and **plotly.express**.

```
[1]: import pandas as pd
     import plotly.express as px
```

2. Read dataset of the **Breast Cancer**.

```
[2]: data_set = pd.read_csv("data.csv")
     data_set
```

[2]:

	id	diagnosis	radius_mean	texture_mean	perimeter_mean	area_mean	smoothness_mean
0	842302	M	17.99	10.38	122.80	1001.0	0.11840
1	842517	M	20.57	17.77	132.90	1326.0	0.08474
2	84300903	M	19.69	21.25	130.00	1203.0	0.10960
3	84348301	M	11.42	20.38	77.58	386.1	0.14250
4	84358402	M	20.29	14.34	135.10	1297.0	0.10030
...	...	...	...	...	...	...	...
564	926424	M	21.56	22.39	142.00	1479.0	0.11100
565	926682	M	20.13	28.25	131.20	1261.0	0.09780
566	926954	M	16.60	28.08	108.30	858.1	0.08455
567	927241	M	20.60	29.33	140.10	1265.0	0.11780
568	92751	B	7.76	24.54	47.92	181.0	0.05263

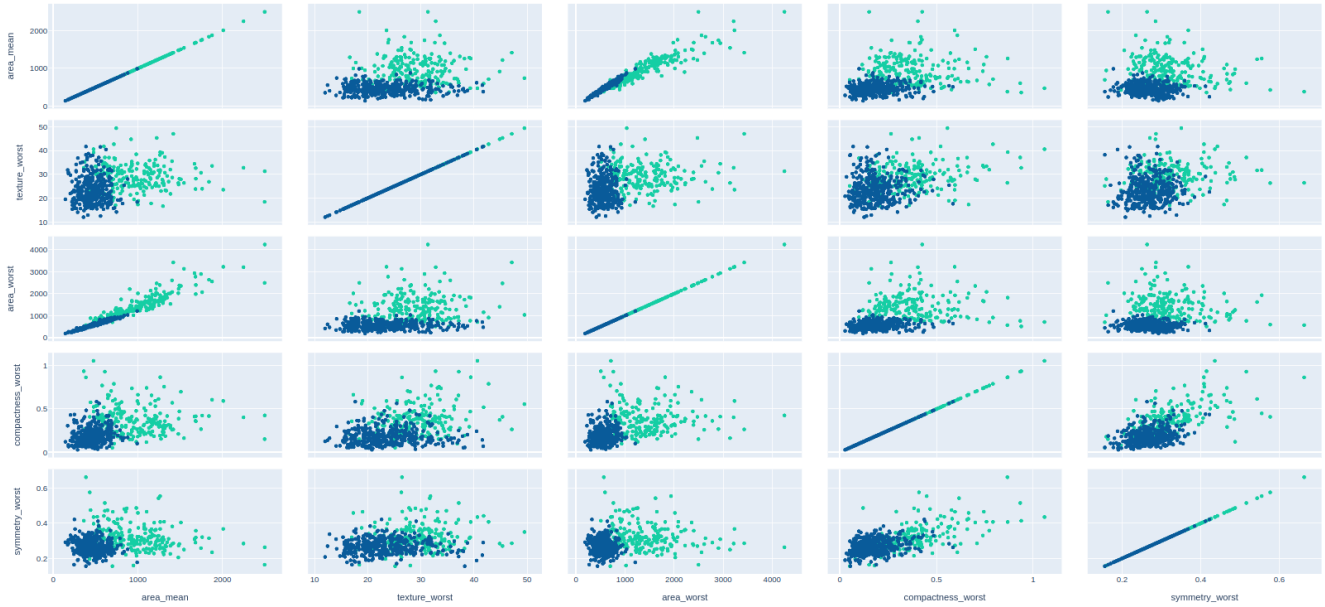
569 rows × 33 columns

3. Make a **list of features** which we want to show.

```
[3]: features_list = [
         "area_mean",
         "texture_worst",
         "area_worst",
         "compactness_worst",
         "symmetry_worst",
     ]
```

4. Use **Scatter_matrix** from **plotly.express** to show the result.

```
[4]: show_data = px.scatter_matrix(
        data_frame=data_set,
        dimensions=features_list,
        height=1000,
        color="diagnosis",
        color_discrete_sequence=["#43cea2", "#185a9d"],
    )
    show_data.show()
```



We use **diagnosis** to show the difference in “M” and “B”.