

PF TODIM SA Theta

July 1, 2021

```
[1]: import matplotlib.pyplot as plt
import numpy as np
import pandas as pd
```

```
[2]: %matplotlib inline
plt.rcParams["figure.dpi"] = 1000
plt.rcParams['font.family'] = 'serif'
plt.rcParams['font.size'] = '8'
```

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[3]: ranking_data = pd.read_csv('theta_rankings.csv')
ranking_data
```

```
[3]:
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	Theta	S1	S2	S3	S4	S5	S6
0	1.0	3	4	6	1	5	2
1	1.1	3	4	6	1	5	2
2	1.2	3	4	6	1	5	2
3	1.3	3	4	6	1	5	2
4	1.4	3	4	6	1	5	2
...
996	100.6	3	4	6	1	5	2
997	100.7	3	4	6	1	5	2
998	100.8	3	4	6	1	5	2
999	100.9	3	4	6	1	5	2
1000	101.0	3	4	6	1	5	2

[1001 rows x 7 columns]

```
[4]: just_ranks = ranking_data.drop('Theta', axis=1)
just_ranks
```

```
[4]:
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	S1	S2	S3	S4	S5	S6
0	3	4	6	1	5	2
1	3	4	6	1	5	2
2	3	4	6	1	5	2
3	3	4	6	1	5	2
4	3	4	6	1	5	2
...
996	3	4	6	1	5	2

```

997    3  4  6  1  5  2
998    3  4  6  1  5  2
999    3  4  6  1  5  2
1000   3  4  6  1  5  2

```

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[1001 rows x 6 columns]
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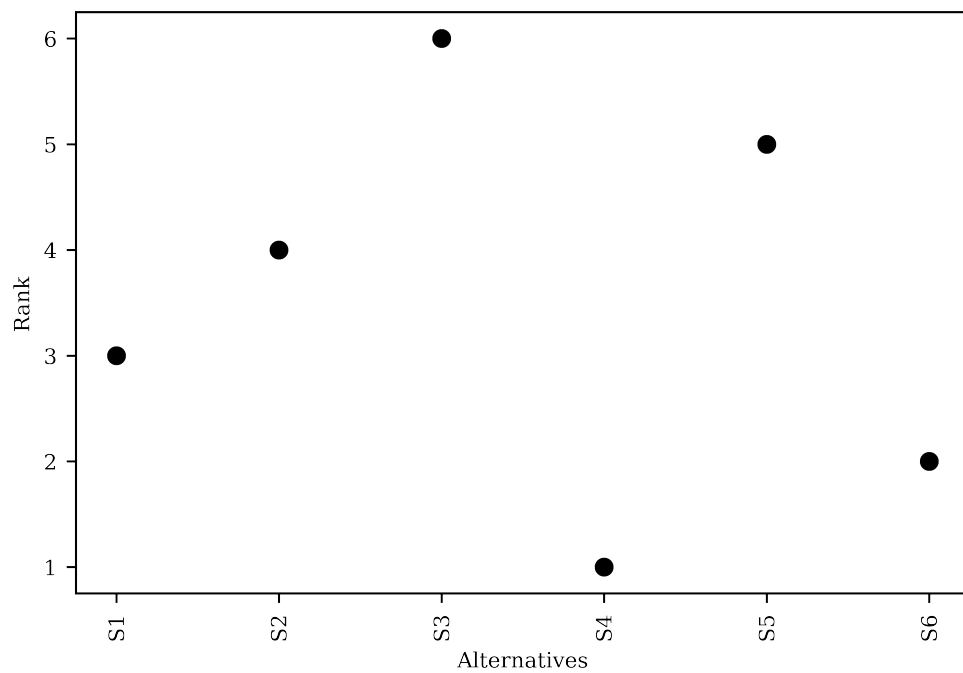
[5]: x = just_ranks.columns

plt.xticks(rotation='vertical')
plt.yticks(ticks=range(1, len(x) + 1))

plt.xlabel('Alternatives')
plt.ylabel('Rank')

for _, row in just_ranks.iterrows():
    plt.scatter(x=x, y=list(row), alpha=0.01, c='black')

```



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[ ]:
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