Testes A/B

Bibliotecas utilizadas

- Numpy
- Scipy
- Matplotlib

```
1 import numpy as np
2 import scipy
3 import matplotlib.pyplot as plt
```

Criando Dataframe de teste

```
1 versao_A = np.random.normal(loc=10, scale=2, size=1000)
2 versao_B = np.random.normal(loc=10, scale=2, size=1000)
```

Iniciando Testes com Scipy

```
1 from scipy.stats import ttest_ind
```

```
1 t, p = ttest_ind(versao_A, versao_B)
2
```

```
1 print(f"t = {t:3f}")
2 print(f"p = {p:3f}")
```

```
t = 1.110713
p = 0.266826
```

```
1 media_A = np.mean(versao_A)
2 media_B = np.mean(versao_B)
```

```
1 plt.hist(versao_A, alpha=0.5, label='Versão A')
2 plt.hist(versao_B, alpha=0.5, label='Versão B')
3 plt.axvline(media_A, color='r', linestyle='dashed', linewidth=1)
4 plt.axvline(media_B, color='b', linestyle='dashed', linewidth=1)
5 plt.legend(loc='upper right')
6 plt.show()
```