**Ordem**

Limpeza

Normalização das entidades -> existem bibliotecas talvez (trump e presidente são iguais)

 Python - [spaCy](https://www.google.com/search?sca_esv=64c82b2b08ea075f&cs=0&sxsrf=AE3TifMh8Glb3BhzjfKqZINaLOy1E4Y4wA%3A1759477814817&q=spaCy&sa=X&ved=2ahUKEwilxuPQxYeQAxWCVqQEHburLyYQxccNegQIAhAB&mstk=AUtExfBN8K0IGlcmW_nng3SoiDCILLdLTEUmEemASx6AONPggF8ml_dKS8hsS6U7-CbOvp1hQwG7Lc6OsrhDdv_aUs4mYRnns0bjPRj7zkz4-HXYHXY4OX9vOKN0FDrznyEqcGDdzOKVYHGKevNehk9TanpZy6k0bMdVF1YV7J3to5dp-LBCxdCp9JxdkaPr6RqGJI8PKbYTwOB3OeeoIsh1ujbOflHDCoCyOmh2_HVxnmVApcixSdmHrEWHeA3aOCme9msXZnRrL_S5P8nhM-NytJDriJ4itecWyjIRAl9up5zX_g&csui=3), [NLTK](https://www.google.com/search?sca_esv=64c82b2b08ea075f&cs=0&sxsrf=AE3TifMh8Glb3BhzjfKqZINaLOy1E4Y4wA%3A1759477814817&q=NLTK&sa=X&ved=2ahUKEwilxuPQxYeQAxWCVqQEHburLyYQxccNegQIAhAC&mstk=AUtExfBN8K0IGlcmW_nng3SoiDCILLdLTEUmEemASx6AONPggF8ml_dKS8hsS6U7-CbOvp1hQwG7Lc6OsrhDdv_aUs4mYRnns0bjPRj7zkz4-HXYHXY4OX9vOKN0FDrznyEqcGDdzOKVYHGKevNehk9TanpZy6k0bMdVF1YV7J3to5dp-LBCxdCp9JxdkaPr6RqGJI8PKbYTwOB3OeeoIsh1ujbOflHDCoCyOmh2_HVxnmVApcixSdmHrEWHeA3aOCme9msXZnRrL_S5P8nhM-NytJDriJ4itecWyjIRAl9up5zX_g&csui=3), [Hugging Face Transformers](https://www.google.com/search?sca_esv=64c82b2b08ea075f&cs=0&sxsrf=AE3TifMh8Glb3BhzjfKqZINaLOy1E4Y4wA%3A1759477814817&q=Hugging+Face+Transformers&sa=X&ved=2ahUKEwilxuPQxYeQAxWCVqQEHburLyYQxccNegQIAhAD&mstk=AUtExfBN8K0IGlcmW_nng3SoiDCILLdLTEUmEemASx6AONPggF8ml_dKS8hsS6U7-CbOvp1hQwG7Lc6OsrhDdv_aUs4mYRnns0bjPRj7zkz4-HXYHXY4OX9vOKN0FDrznyEqcGDdzOKVYHGKevNehk9TanpZy6k0bMdVF1YV7J3to5dp-LBCxdCp9JxdkaPr6RqGJI8PKbYTwOB3OeeoIsh1ujbOflHDCoCyOmh2_HVxnmVApcixSdmHrEWHeA3aOCme9msXZnRrL_S5P8nhM-NytJDriJ4itecWyjIRAl9up5zX_g&csui=3)

R - quanteda

Janelas Semanais

Modelo inicial

Tecnologia nova

Modelo final

**Bibliografia**- seguir modelo prism

**Sites:** Google scolar, web of science, springer, ieee, acmdl

**Exportação de tweets**: twexportly

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