{

"nbformat": 4,

"nbformat\_minor": 0,

"metadata": {

"colab": {

"name": "Spacy - Aula 5 - Python para PLN.ipynb",

"provenance": [],

"collapsed\_sections": []

},

"kernelspec": {

"name": "python3",

"display\_name": "Python 3"

},

"language\_info": {

"name": "python"

}

},

"cells": [

{

"cell\_type": "markdown",

"metadata": {

"id": "5Eou-fvY7awQ"

},

"source": [

"# Instalação do Spacy\n",

"\n",

"Primeiro precisamos atualizar o spacy que já está instalado no colab.\n",

"\n",

"A versão que está disponível não dá suporte ao modelo de dados em portugues.\n",

"\n",

"https://spacy.io/usage"

]

},

{

"cell\_type": "code",

"metadata": {

"colab": {

"base\_uri": "https://localhost:8080/"

},

"id": "-BqxDKI1FVo4",

"outputId": "5f03407e-d81a-43a4-cab2-ee7e59b75ca1"

},

"source": [

"pip install -U spacy"

],

"execution\_count": null,

"outputs": [

{

"output\_type": "stream",

"name": "stdout",

"text": [

"Requirement already satisfied: spacy in /usr/local/lib/python3.7/dist-packages (2.2.4)\n",

"Collecting spacy\n",

" Downloading spacy-3.1.3-cp37-cp37m-manylinux\_2\_17\_x86\_64.manylinux2014\_x86\_64.whl (5.9 MB)\n",

"\u001b[K |████████████████████████████████| 5.9 MB 5.2 MB/s \n",

"\u001b[?25hCollecting pathy>=0.3.5\n",

" Downloading pathy-0.6.0-py3-none-any.whl (42 kB)\n",

"\u001b[K |████████████████████████████████| 42 kB 1.5 MB/s \n",

"\u001b[?25hCollecting pydantic!=1.8,!=1.8.1,<1.9.0,>=1.7.4\n",

" Downloading pydantic-1.8.2-cp37-cp37m-manylinux2014\_x86\_64.whl (10.1 MB)\n",

"\u001b[K |████████████████████████████████| 10.1 MB 20.2 MB/s \n",

"\u001b[?25hRequirement already satisfied: preshed<3.1.0,>=3.0.2 in /usr/local/lib/python3.7/dist-packages (from spacy) (3.0.5)\n",

"Requirement already satisfied: jinja2 in /usr/local/lib/python3.7/dist-packages (from spacy) (2.11.3)\n",

"Requirement already satisfied: numpy>=1.15.0 in /usr/local/lib/python3.7/dist-packages (from spacy) (1.19.5)\n",

"Collecting typer<0.5.0,>=0.3.0\n",

" Downloading typer-0.4.0-py3-none-any.whl (27 kB)\n",

"Collecting catalogue<2.1.0,>=2.0.6\n",

" Downloading catalogue-2.0.6-py3-none-any.whl (17 kB)\n",

"Requirement already satisfied: tqdm<5.0.0,>=4.38.0 in /usr/local/lib/python3.7/dist-packages (from spacy) (4.62.3)\n",

"Collecting thinc<8.1.0,>=8.0.9\n",

" Downloading thinc-8.0.10-cp37-cp37m-manylinux\_2\_17\_x86\_64.manylinux2014\_x86\_64.whl (623 kB)\n",

"\u001b[K |████████████████████████████████| 623 kB 53.0 MB/s \n",

"\u001b[?25hRequirement already satisfied: packaging>=20.0 in /usr/local/lib/python3.7/dist-packages (from spacy) (21.0)\n",

"Requirement already satisfied: requests<3.0.0,>=2.13.0 in /usr/local/lib/python3.7/dist-packages (from spacy) (2.23.0)\n",

"Requirement already satisfied: typing-extensions<4.0.0.0,>=3.7.4 in /usr/local/lib/python3.7/dist-packages (from spacy) (3.7.4.3)\n",

"Collecting spacy-legacy<3.1.0,>=3.0.8\n",

" Downloading spacy\_legacy-3.0.8-py2.py3-none-any.whl (14 kB)\n",

"Requirement already satisfied: cymem<2.1.0,>=2.0.2 in /usr/local/lib/python3.7/dist-packages (from spacy) (2.0.5)\n",

"Collecting srsly<3.0.0,>=2.4.1\n",

" Downloading srsly-2.4.1-cp37-cp37m-manylinux2014\_x86\_64.whl (456 kB)\n",

"\u001b[K |████████████████████████████████| 456 kB 42.3 MB/s \n",

"\u001b[?25hRequirement already satisfied: setuptools in /usr/local/lib/python3.7/dist-packages (from spacy) (57.4.0)\n",

"Requirement already satisfied: blis<0.8.0,>=0.4.0 in /usr/local/lib/python3.7/dist-packages (from spacy) (0.4.1)\n",

"Requirement already satisfied: murmurhash<1.1.0,>=0.28.0 in /usr/local/lib/python3.7/dist-packages (from spacy) (1.0.5)\n",

"Requirement already satisfied: wasabi<1.1.0,>=0.8.1 in /usr/local/lib/python3.7/dist-packages (from spacy) (0.8.2)\n",

"Requirement already satisfied: zipp>=0.5 in /usr/local/lib/python3.7/dist-packages (from catalogue<2.1.0,>=2.0.6->spacy) (3.5.0)\n",

"Requirement already satisfied: pyparsing>=2.0.2 in /usr/local/lib/python3.7/dist-packages (from packaging>=20.0->spacy) (2.4.7)\n",

"Requirement already satisfied: smart-open<6.0.0,>=5.0.0 in /usr/local/lib/python3.7/dist-packages (from pathy>=0.3.5->spacy) (5.2.1)\n",

"Requirement already satisfied: idna<3,>=2.5 in /usr/local/lib/python3.7/dist-packages (from requests<3.0.0,>=2.13.0->spacy) (2.10)\n",

"Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.7/dist-packages (from requests<3.0.0,>=2.13.0->spacy) (2021.5.30)\n",

"Requirement already satisfied: chardet<4,>=3.0.2 in /usr/local/lib/python3.7/dist-packages (from requests<3.0.0,>=2.13.0->spacy) (3.0.4)\n",

"Requirement already satisfied: urllib3!=1.25.0,!=1.25.1,<1.26,>=1.21.1 in /usr/local/lib/python3.7/dist-packages (from requests<3.0.0,>=2.13.0->spacy) (1.24.3)\n",

"Requirement already satisfied: click<9.0.0,>=7.1.1 in /usr/local/lib/python3.7/dist-packages (from typer<0.5.0,>=0.3.0->spacy) (7.1.2)\n",

"Requirement already satisfied: MarkupSafe>=0.23 in /usr/local/lib/python3.7/dist-packages (from jinja2->spacy) (2.0.1)\n",

"Installing collected packages: catalogue, typer, srsly, pydantic, thinc, spacy-legacy, pathy, spacy\n",

" Attempting uninstall: catalogue\n",

" Found existing installation: catalogue 1.0.0\n",

" Uninstalling catalogue-1.0.0:\n",

" Successfully uninstalled catalogue-1.0.0\n",

" Attempting uninstall: srsly\n",

" Found existing installation: srsly 1.0.5\n",

" Uninstalling srsly-1.0.5:\n",

" Successfully uninstalled srsly-1.0.5\n",

" Attempting uninstall: thinc\n",

" Found existing installation: thinc 7.4.0\n",

" Uninstalling thinc-7.4.0:\n",

" Successfully uninstalled thinc-7.4.0\n",

" Attempting uninstall: spacy\n",

" Found existing installation: spacy 2.2.4\n",

" Uninstalling spacy-2.2.4:\n",

" Successfully uninstalled spacy-2.2.4\n",

"Successfully installed catalogue-2.0.6 pathy-0.6.0 pydantic-1.8.2 spacy-3.1.3 spacy-legacy-3.0.8 srsly-2.4.1 thinc-8.0.10 typer-0.4.0\n"

]

}

]

},

{

"cell\_type": "markdown",

"metadata": {

"id": "RpafPx4v7qP2"

},

"source": [

"\*\*Depois de instalar precisamos baixar os pacotes complementares\*\*"

]

},

{

"cell\_type": "code",

"metadata": {

"colab": {

"base\_uri": "https://localhost:8080/"

},

"id": "zS1JfXlBF42u",

"outputId": "5698d623-fd41-44d0-a371-4b9400bf04fb"

},

"source": [

"pip install -U spacy-lookups-data"

],

"execution\_count": null,

"outputs": [

{

"output\_type": "stream",

"name": "stdout",

"text": [

"Collecting spacy-lookups-data\n",

" Downloading spacy\_lookups\_data-1.0.2-py2.py3-none-any.whl (97.3 MB)\n",

"\u001b[K |████████████████████████████████| 97.3 MB 66 kB/s \n",

"\u001b[?25hRequirement already satisfied: setuptools in /usr/local/lib/python3.7/dist-packages (from spacy-lookups-data) (57.4.0)\n",

"Installing collected packages: spacy-lookups-data\n",

"Successfully installed spacy-lookups-data-1.0.2\n"

]

}

]

},

{

"cell\_type": "markdown",

"metadata": {

"id": "MmiMoEVv7wMO"

},

"source": [

"\*\*E finalmente instalamos o modelo de língua disponibilizado pelo spaCy\*\*"

]

},

{

"cell\_type": "code",

"metadata": {

"colab": {

"base\_uri": "https://localhost:8080/"

},

"id": "6duQFrspGHvZ",

"outputId": "091b942d-b14a-4d45-fced-1956fded684c"

},

"source": [

"!python -m spacy download pt\_core\_news\_lg\n",

"#!python -m spacy download pt\_core\_news\_md\n",

"#!python -m spacy download pt\_core\_news\_sm"

],

"execution\_count": null,

"outputs": [

{

"output\_type": "stream",

"name": "stdout",

"text": [

"Collecting pt-core-news-lg==3.1.0\n",

" Downloading https://github.com/explosion/spacy-models/releases/download/pt\_core\_news\_lg-3.1.0/pt\_core\_news\_lg-3.1.0-py3-none-any.whl (576.7 MB)\n",

"\u001b[K |████████████████████████████████| 576.7 MB 19 kB/s \n",

"\u001b[?25hRequirement already satisfied: spacy<3.2.0,>=3.1.0 in /usr/local/lib/python3.7/dist-packages (from pt-core-news-lg==3.1.0) (3.1.3)\n",

"Requirement already satisfied: setuptools in /usr/local/lib/python3.7/dist-packages (from spacy<3.2.0,>=3.1.0->pt-core-news-lg==3.1.0) (57.4.0)\n",

"Requirement already satisfied: wasabi<1.1.0,>=0.8.1 in /usr/local/lib/python3.7/dist-packages (from spacy<3.2.0,>=3.1.0->pt-core-news-lg==3.1.0) (0.8.2)\n",

"Requirement already satisfied: pathy>=0.3.5 in /usr/local/lib/python3.7/dist-packages (from spacy<3.2.0,>=3.1.0->pt-core-news-lg==3.1.0) (0.6.0)\n",

"Requirement already satisfied: tqdm<5.0.0,>=4.38.0 in /usr/local/lib/python3.7/dist-packages (from spacy<3.2.0,>=3.1.0->pt-core-news-lg==3.1.0) (4.62.3)\n",

"Requirement already satisfied: requests<3.0.0,>=2.13.0 in /usr/local/lib/python3.7/dist-packages (from spacy<3.2.0,>=3.1.0->pt-core-news-lg==3.1.0) (2.23.0)\n",

"Requirement already satisfied: catalogue<2.1.0,>=2.0.6 in /usr/local/lib/python3.7/dist-packages (from spacy<3.2.0,>=3.1.0->pt-core-news-lg==3.1.0) (2.0.6)\n",

"Requirement already satisfied: preshed<3.1.0,>=3.0.2 in /usr/local/lib/python3.7/dist-packages (from spacy<3.2.0,>=3.1.0->pt-core-news-lg==3.1.0) (3.0.5)\n",

"Requirement already satisfied: murmurhash<1.1.0,>=0.28.0 in /usr/local/lib/python3.7/dist-packages (from spacy<3.2.0,>=3.1.0->pt-core-news-lg==3.1.0) (1.0.5)\n",

"Requirement already satisfied: spacy-legacy<3.1.0,>=3.0.8 in /usr/local/lib/python3.7/dist-packages (from spacy<3.2.0,>=3.1.0->pt-core-news-lg==3.1.0) (3.0.8)\n",

"Requirement already satisfied: numpy>=1.15.0 in /usr/local/lib/python3.7/dist-packages (from spacy<3.2.0,>=3.1.0->pt-core-news-lg==3.1.0) (1.19.5)\n",

"Requirement already satisfied: thinc<8.1.0,>=8.0.9 in /usr/local/lib/python3.7/dist-packages (from spacy<3.2.0,>=3.1.0->pt-core-news-lg==3.1.0) (8.0.10)\n",

"Requirement already satisfied: srsly<3.0.0,>=2.4.1 in /usr/local/lib/python3.7/dist-packages (from spacy<3.2.0,>=3.1.0->pt-core-news-lg==3.1.0) (2.4.1)\n",

"Requirement already satisfied: packaging>=20.0 in /usr/local/lib/python3.7/dist-packages (from spacy<3.2.0,>=3.1.0->pt-core-news-lg==3.1.0) (21.0)\n",

"Requirement already satisfied: cymem<2.1.0,>=2.0.2 in /usr/local/lib/python3.7/dist-packages (from spacy<3.2.0,>=3.1.0->pt-core-news-lg==3.1.0) (2.0.5)\n",

"Requirement already satisfied: typing-extensions<4.0.0.0,>=3.7.4 in /usr/local/lib/python3.7/dist-packages (from spacy<3.2.0,>=3.1.0->pt-core-news-lg==3.1.0) (3.7.4.3)\n",

"Requirement already satisfied: blis<0.8.0,>=0.4.0 in /usr/local/lib/python3.7/dist-packages (from spacy<3.2.0,>=3.1.0->pt-core-news-lg==3.1.0) (0.4.1)\n",

"Requirement already satisfied: jinja2 in /usr/local/lib/python3.7/dist-packages (from spacy<3.2.0,>=3.1.0->pt-core-news-lg==3.1.0) (2.11.3)\n",

"Requirement already satisfied: typer<0.5.0,>=0.3.0 in /usr/local/lib/python3.7/dist-packages (from spacy<3.2.0,>=3.1.0->pt-core-news-lg==3.1.0) (0.4.0)\n",

"Requirement already satisfied: pydantic!=1.8,!=1.8.1,<1.9.0,>=1.7.4 in /usr/local/lib/python3.7/dist-packages (from spacy<3.2.0,>=3.1.0->pt-core-news-lg==3.1.0) (1.8.2)\n",

"Requirement already satisfied: zipp>=0.5 in /usr/local/lib/python3.7/dist-packages (from catalogue<2.1.0,>=2.0.6->spacy<3.2.0,>=3.1.0->pt-core-news-lg==3.1.0) (3.5.0)\n",

"Requirement already satisfied: pyparsing>=2.0.2 in /usr/local/lib/python3.7/dist-packages (from packaging>=20.0->spacy<3.2.0,>=3.1.0->pt-core-news-lg==3.1.0) (2.4.7)\n",

"Requirement already satisfied: smart-open<6.0.0,>=5.0.0 in /usr/local/lib/python3.7/dist-packages (from pathy>=0.3.5->spacy<3.2.0,>=3.1.0->pt-core-news-lg==3.1.0) (5.2.1)\n",

"Requirement already satisfied: urllib3!=1.25.0,!=1.25.1,<1.26,>=1.21.1 in /usr/local/lib/python3.7/dist-packages (from requests<3.0.0,>=2.13.0->spacy<3.2.0,>=3.1.0->pt-core-news-lg==3.1.0) (1.24.3)\n",

"Requirement already satisfied: idna<3,>=2.5 in /usr/local/lib/python3.7/dist-packages (from requests<3.0.0,>=2.13.0->spacy<3.2.0,>=3.1.0->pt-core-news-lg==3.1.0) (2.10)\n",

"Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.7/dist-packages (from requests<3.0.0,>=2.13.0->spacy<3.2.0,>=3.1.0->pt-core-news-lg==3.1.0) (2021.5.30)\n",

"Requirement already satisfied: chardet<4,>=3.0.2 in /usr/local/lib/python3.7/dist-packages (from requests<3.0.0,>=2.13.0->spacy<3.2.0,>=3.1.0->pt-core-news-lg==3.1.0) (3.0.4)\n",

"Requirement already satisfied: click<9.0.0,>=7.1.1 in /usr/local/lib/python3.7/dist-packages (from typer<0.5.0,>=0.3.0->spacy<3.2.0,>=3.1.0->pt-core-news-lg==3.1.0) (7.1.2)\n",

"Requirement already satisfied: MarkupSafe>=0.23 in /usr/local/lib/python3.7/dist-packages (from jinja2->spacy<3.2.0,>=3.1.0->pt-core-news-lg==3.1.0) (2.0.1)\n",

"Installing collected packages: pt-core-news-lg\n",

"Successfully installed pt-core-news-lg-3.1.0\n",

"\u001b[38;5;2m✔ Download and installation successful\u001b[0m\n",

"You can now load the package via spacy.load('pt\_core\_news\_lg')\n"

]

}

]

},

{

"cell\_type": "markdown",

"metadata": {

"id": "9W9NiF0g742N"

},

"source": [

"\*\*Agora, o uso efetivo da biblioteca\*\*"

]

},

{

"cell\_type": "code",

"metadata": {

"id": "Y3BsZEUkI3E\_"

},

"source": [

"import spacy\n",

"\n",

"# Um texto de exemplo\n",

"texto = \"Para políticos e infectologistas, a opção de Michelle de se 10 vacinar nos EUA, não no Brasil, 2021 é um absurdo e um desprezo ao SUS (Sistema Único de Saúde) e ao PNI (Programa Nacional de Imunizações).\"\n",

"\n",

"# Carregamos o modelo de língua que baixamos\n",

"nlp = spacy.load(\"pt\_core\_news\_lg\")\n",

"\n",

"# Usamos o modelo para analisar o nosso texto :)\n",

"doc = nlp(texto)"

],

"execution\_count": null,

"outputs": []

},

{

"cell\_type": "markdown",

"metadata": {

"id": "syWfeowp8KOG"

},

"source": [

"\*\*Usando a variável \"doc\" podemos acessar os tokens e as diversas análises feitas pelo spaCy\*\*"

]

},

{

"cell\_type": "code",

"metadata": {

"colab": {

"base\_uri": "https://localhost:8080/"

},

"id": "j4dPg3ygJb1U",

"outputId": "dedd3e90-1e2b-49e0-c5a1-1b88ff2154b7"

},

"source": [

"# geração da lista de tokens (tokenização)\n",

"\n",

"# Observe que essa estrutura pode ser convertida para a seguinte:\n",

"# tokens = []\n",

"# for token in tokens:\n",

"# tokens.append(token)\n",

"\n",

"tokens = [token for token in doc]\n",

"tokens"

],

"execution\_count": null,

"outputs": [

{

"output\_type": "execute\_result",

"data": {

"text/plain": [

"[Para,\n",

" políticos,\n",

" e,\n",

" infectologistas,\n",

" ,,\n",

" a,\n",

" opção,\n",

" de,\n",

" Michelle,\n",

" de,\n",

" se,\n",

" vacinar,\n",

" nos,\n",

" EUA,\n",

" ,,\n",

" não,\n",

" no,\n",

" Brasil,\n",

" ,,\n",

" é,\n",

" um,\n",

" absurdo,\n",

" e,\n",

" um,\n",

" desprezo,\n",

" ao,\n",

" SUS,\n",

" (,\n",

" Sistema,\n",

" Único,\n",

" de,\n",

" Saúde,\n",

" ),\n",

" e,\n",

" ao,\n",

" PNI,\n",

" (,\n",

" Programa,\n",

" Nacional,\n",

" de,\n",

" Imunizações,\n",

" ),\n",

" .]"

]

},

"metadata": {},

"execution\_count": 8

}

]

},

{

"cell\_type": "markdown",

"metadata": {

"id": "bw\_4X5aS8jXm"

},

"source": [

"\*\*Salvando na lista o texto dos tokens:\*\* \*\*\*.orth\_\*\*\*"

]

},

{

"cell\_type": "code",

"metadata": {

"colab": {

"base\_uri": "https://localhost:8080/"

},

"id": "obXc62cgK0IW",

"outputId": "87e77bd0-f505-46a5-8471-438b3e137927"

},

"source": [

"tokens = [token.orth\_ for token in doc]\n",

"tokens"

],

"execution\_count": null,

"outputs": [

{

"output\_type": "execute\_result",

"data": {

"text/plain": [

"['Para',\n",

" 'políticos',\n",

" 'e',\n",

" 'infectologistas',\n",

" ',',\n",

" 'a',\n",

" 'opção',\n",

" 'de',\n",

" 'Michelle',\n",

" 'de',\n",

" 'se',\n",

" 'vacinar',\n",

" 'nos',\n",

" 'EUA',\n",

" ',',\n",

" 'não',\n",

" 'no',\n",

" 'Brasil',\n",

" ',',\n",

" 'é',\n",

" 'um',\n",

" 'absurdo',\n",

" 'e',\n",

" 'um',\n",

" 'desprezo',\n",

" 'ao',\n",

" 'SUS',\n",

" '(',\n",

" 'Sistema',\n",

" 'Único',\n",

" 'de',\n",

" 'Saúde',\n",

" ')',\n",

" 'e',\n",

" 'ao',\n",

" 'PNI',\n",

" '(',\n",

" 'Programa',\n",

" 'Nacional',\n",

" 'de',\n",

" 'Imunizações',\n",

" ')',\n",

" '.']"

]

},

"metadata": {},

"execution\_count": 10

}

]

},

{

"cell\_type": "markdown",

"metadata": {

"id": "KS\_T4hTJ89VW"

},

"source": [

"\*\*Demais atributos\*\*\n",

"\n",

"\n",

"\* .is\_apha\n",

"\* .is\_digit\n",

"\* .is\_punct\n",

"\n",

"https://spacy.io/api/token#attributes\n",

"\n"

]

},

{

"cell\_type": "code",

"metadata": {

"colab": {

"base\_uri": "https://localhost:8080/"

},

"id": "-tOljq2VLUzW",

"outputId": "d416ea2c-bf4d-46b5-dbdc-afe83aecd0a1"

},

"source": [

"alpha\_tokens = [token.orth\_ for token in doc if token.is\_alpha]\n",

"print(\"Alpha Tokens: %s \" % (alpha\_tokens))\n",

"\n",

"digit\_tokens = [token.orth\_ for token in doc if token.is\_digit]\n",

"print(\"Digit Tokens: %s \" % (digit\_tokens))\n",

"\n",

"punct\_tokens = [token.orth\_ for token in doc if token.is\_punct]\n",

"print(\"Punct Tokens: %s \" % (punct\_tokens))"

],

"execution\_count": null,

"outputs": [

{

"output\_type": "stream",

"name": "stdout",

"text": [

"Alpha Tokens: ['Para', 'políticos', 'e', 'infectologistas', 'a', 'opção', 'de', 'Michelle', 'de', 'se', 'vacinar', 'nos', 'EUA', 'não', 'no', 'Brasil', 'é', 'um', 'absurdo', 'e', 'um', 'desprezo', 'ao', 'SUS', 'Sistema', 'Único', 'de', 'Saúde', 'e', 'ao', 'PNI', 'Programa', 'Nacional', 'de', 'Imunizações'] \n",

"Digit Tokens: ['10', '2021'] \n",

"Punct Tokens: [',', ',', ',', '(', ')', '(', ')', '.'] \n"

]

}

]

},

{

"cell\_type": "markdown",

"metadata": {

"id": "FkaK9ex59dg-"

},

"source": [

"\*\*Vamos trabalhar com nosso corpus de teste :)\*\*"

]

},

{

"cell\_type": "code",

"metadata": {

"colab": {

"base\_uri": "https://localhost:8080/",

"height": 221

},

"id": "0Xs4veraNq5h",

"outputId": "f70ff0c3-593d-428b-8ded-0bbaef6f38ba"

},

"source": [

"corpus = open('/content/drive/MyDrive/recursos/corpus\_teste.txt').read()\n",

"corpus"

],

"execution\_count": null,

"outputs": [

{

"output\_type": "execute\_result",

"data": {

"application/vnd.google.colaboratory.intrinsic+json": {

"type": "string"

},

"text/plain": [

"'Giants batem os Patriots no Super Bowl XLII\\nAzarões acabam com a invencibilidade de New England e ficam com o título da temporada\\n04/02/2008 - 01h07m - Atualizado em 04/02/2008 - 09h49m\\n\\nCom um passe de Eli Manning para Plaxico Burress a 39 segundos do fim, o New York Giants anotou o touchdown decisivo e derrubou o favorito New England Patriots por 17 a 14 neste domingo, em Glendale, no Super Bowl XLII. O resultado, uma das maiores zebras da história do Super Bowl, acabou com a temporada perfeita de Tom Brady e companhia, que esperavam fazer história ao levantar o troféu da NFL sem sofrer uma derrota no ano. \\n\\nA vitória dos Giants, porém, também ficará para a história. Pela primeira vez, irmãos quarterbacks triunfam no Super Bowl em temporadas consecutivas. No ano passado, Peyton Manning, irmão de Eli, chegou ao título máximo da NFL pelo Indianapolis Colts.\\n\\nA partida\\n\\nOs Giants começaram com a posse de bola, e mostraram logo que iriam alongar ao máximo suas posses de bola. Misturando corridas com Brandon Jacobs e passes curtos, o time de Nova York chegou à red zone logo na primeira campanha. O avanço, no entanto, parou na linha de 17 jardas e Lawrence Tynes converteu o field goal de 32 jardas para abrir o placar.\\n\\nEli Manning e companhia ficaram 9m54s com a bola, mas o ataque dos Patriots não entrou em campo frio. Logo no retorno do kickoff, o running back Laurence Maroney avançou 43 jardas, deixando Tom Brady em boa posição. Com passes curtos, os Patriots chegaram à linha de 17 jardas e, graças a uma penalidade (interferência de passe) do linebacker Antonio Pierce, alcançaram a linha de uma jarda. Maroney avançou pelo chão e anotou o primeiro touchdown do jogo.\\n\\nOs Giants pareciam rumo à virada na campanha seguinte. Manning achou Amani Toomer para um avanço de 38 jardas, e o time de Nova York entrou novamente na red zone. Com a bola na linha de 14 jardas dos Patriots, os Giants sofreram um revés. Manning passou para Steve Smith, que soltou a bola. Ellis Hobbs aproveitou, tomou a posse para os Patriots, e avançou 23 jardas. \\n\\nA defesa de Nova York manteve o jogo equilibrado. Com dois sacks seguidos, os Giants forçaram o punt e recuperaram a bola. Mas a campanha seguinte provou ser outra decepção para Nova York. O time chegou à linha de 25 jardas, mas Manning sofreu um sack e cometeu um fumble, e o ataque voltou para a linha de 39 jardas, não conseguindo pontuar mais uma vez.\\n\\nOs Patriots tiveram uma última chance de marcar antes do intervalo, mas, a 22 segundos do fim do segundo período, Brady foi novamente sacado. Desta vez, ele cometeu o fumble e os Giants tomaram a posse de bola. Manning tentou um passe longo, de 50 jardas, nos últimos segundos, mas não teve sucesso. \\n\\nO jogo continuou amarrado no terceiro quarto, com as defesas levando a melhor sobre os ataques. A única chance de pontuar do período foi dos Patriots, que chegaram à linha de 31 jardas dos Giants. O técnico Bill Bellichick, porém, optou por uma quarta descida em vez de um field goal. Brady tentou um passe para Jabar Gaffney, mas não conseguiu completar.\\n\\nO último período começou arrasador para os Giants. na primeira jogada, Manning achou o tight end Kevin Boss, para um incrível avanço de 45 jardas, que deixou o time na linha de 35 dos Patriots. Outro lançamento, desta vez para Steve Smith, marcou o avanço até a linha de 12 jardas. Duas jogadas depois, David Tyree pegou um passe de cinco jardas na end zone para anotar o touchdown e virar o jogo.\\n\\nNa hora da decisão, o ataque dos Patriots voltou a funcionar. Com uma série de passes curtos e variados, Brady achou Wes Welker, Randy Moss e Kevin Faulk seguidas vezes até chegar à red zone. A 2m45s do fim, o quarterback conectou mais uma vez com Moss, que se desmarcou e ficou livre na lateral direita da end zone.\\n\\nQuando os fãs de New England já comemoravam a vitória, o inesperado aconteceu. Em uma jogada incrível, Eli Manning se soltou de dois marcadores que o seguravam pela camisa e, na corrida, lançou para Amani Toomer. O wide receiver, bem marcado, saltou e conseguiu a fazer recepção para um avanço de 32 jardas, deixando os Giants na linha de 24 de New England.\\n\\nQuatro jogadas depois, a 39 segundos do fim, Manning achou Plaxico Burress na end zone para conseguir o touchdown do título.'"

]

},

"metadata": {},

"execution\_count": 17

}

]

},

{

"cell\_type": "code",

"metadata": {

"colab": {

"base\_uri": "https://localhost:8080/"

},

"id": "RUXE-cGMOBqf",

"outputId": "15e371e0-bb0a-4d1f-b61d-7c8baa565957"

},

"source": [

"import spacy\n",

"\n",

"nlp = spacy.load(\"pt\_core\_news\_lg\")\n",

"doc = nlp(corpus)\n",

"\n",

"tokens = [token.orth\_ for token in doc]\n",

"tokens"

],

"execution\_count": null,

"outputs": [

{

"output\_type": "execute\_result",

"data": {

"text/plain": [

"['Giants',\n",

" 'batem',\n",

" 'os',\n",

" 'Patriots',\n",

" 'no',\n",

" 'Super',\n",

" 'Bowl',\n",

" 'XLII',\n",

" '\\n',\n",

" 'Azarões',\n",

" 'acabam',\n",

" 'com',\n",

" 'a',\n",

" 'invencibilidade',\n",

" 'de',\n",

" 'New',\n",

" 'England',\n",

" 'e',\n",

" 'ficam',\n",

" 'com',\n",

" 'o',\n",

" 'título',\n",

" 'da',\n",

" 'temporada',\n",

" '\\n',\n",

" '04/02/2008',\n",

" '-',\n",

" '01h07',\n",

" 'm',\n",

" '-',\n",

" 'Atualizado',\n",

" 'em',\n",

" '04/02/2008',\n",

" '-',\n",

" '09h49',\n",

" 'm',\n",

" '\\n\\n',\n",

" 'Com',\n",

" 'um',\n",

" 'passe',\n",

" 'de',\n",

" 'Eli',\n",

" 'Manning',\n",

" 'para',\n",

" 'Plaxico',\n",

" 'Burress',\n",

" 'a',\n",

" '39',\n",

" 'segundos',\n",

" 'do',\n",

" 'fim',\n",

" ',',\n",

" 'o',\n",

" 'New',\n",

" 'York',\n",

" 'Giants',\n",

" 'anotou',\n",

" 'o',\n",

" 'touchdown',\n",

" 'decisivo',\n",

" 'e',\n",

" 'derrubou',\n",

" 'o',\n",

" 'favorito',\n",

" 'New',\n",

" 'England',\n",

" 'Patriots',\n",

" 'por',\n",

" '17',\n",

" 'a',\n",

" '14',\n",

" 'neste',\n",

" 'domingo',\n",

" ',',\n",

" 'em',\n",

" 'Glendale',\n",

" ',',\n",

" 'no',\n",

" 'Super',\n",

" 'Bowl',\n",

" 'XLII',\n",

" '.',\n",

" 'O',\n",

" 'resultado',\n",

" ',',\n",

" 'uma',\n",

" 'das',\n",

" 'maiores',\n",

" 'zebras',\n",

" 'da',\n",

" 'história',\n",

" 'do',\n",

" 'Super',\n",

" 'Bowl',\n",

" ',',\n",

" 'acabou',\n",

" 'com',\n",

" 'a',\n",

" 'temporada',\n",

" 'perfeita',\n",

" 'de',\n",

" 'Tom',\n",

" 'Brady',\n",

" 'e',\n",

" 'companhia',\n",

" ',',\n",

" 'que',\n",

" 'esperavam',\n",

" 'fazer',\n",

" 'história',\n",

" 'ao',\n",

" 'levantar',\n",

" 'o',\n",

" 'troféu',\n",

" 'da',\n",

" 'NFL',\n",

" 'sem',\n",

" 'sofrer',\n",

" 'uma',\n",

" 'derrota',\n",

" 'no',\n",

" 'ano',\n",

" '.',\n",

" '\\n\\n',\n",

" 'A',\n",

" 'vitória',\n",

" 'dos',\n",

" 'Giants',\n",

" ',',\n",

" 'porém',\n",

" ',',\n",

" 'também',\n",

" 'ficará',\n",

" 'para',\n",

" 'a',\n",

" 'história',\n",

" '.',\n",

" 'Pela',\n",

" 'primeira',\n",

" 'vez',\n",

" ',',\n",

" 'irmãos',\n",

" 'quarterbacks',\n",

" 'triunfam',\n",

" 'no',\n",

" 'Super',\n",

" 'Bowl',\n",

" 'em',\n",

" 'temporadas',\n",

" 'consecutivas',\n",

" '.',\n",

" 'No',\n",

" 'ano',\n",

" 'passado',\n",

" ',',\n",

" 'Peyton',\n",

" 'Manning',\n",

" ',',\n",

" 'irmão',\n",

" 'de',\n",

" 'Eli',\n",

" ',',\n",

" 'chegou',\n",

" 'ao',\n",

" 'título',\n",

" 'máximo',\n",

" 'da',\n",

" 'NFL',\n",

" 'pelo',\n",

" 'Indianapolis',\n",

" 'Colts',\n",

" '.',\n",

" '\\n\\n',\n",

" 'A',\n",

" 'partida',\n",

" '\\n\\n',\n",

" 'Os',\n",

" 'Giants',\n",

" 'começaram',\n",

" 'com',\n",

" 'a',\n",

" 'posse',\n",

" 'de',\n",

" 'bola',\n",

" ',',\n",

" 'e',\n",

" 'mostraram',\n",

" 'logo',\n",

" 'que',\n",

" 'iriam',\n",

" 'alongar',\n",

" 'ao',\n",

" 'máximo',\n",

" 'suas',\n",

" 'posses',\n",

" 'de',\n",

" 'bola',\n",

" '.',\n",

" 'Misturando',\n",

" 'corridas',\n",

" 'com',\n",

" 'Brandon',\n",

" 'Jacobs',\n",

" 'e',\n",

" 'passes',\n",

" 'curtos',\n",

" ',',\n",

" 'o',\n",

" 'time',\n",

" 'de',\n",

" 'Nova',\n",

" 'York',\n",

" 'chegou',\n",

" 'à',\n",

" 'red',\n",

" 'zone',\n",

" 'logo',\n",

" 'na',\n",

" 'primeira',\n",

" 'campanha',\n",

" '.',\n",

" 'O',\n",

" 'avanço',\n",

" ',',\n",

" 'no',\n",

" 'entanto',\n",

" ',',\n",

" 'parou',\n",

" 'na',\n",

" 'linha',\n",

" 'de',\n",

" '17',\n",

" 'jardas',\n",

" 'e',\n",

" 'Lawrence',\n",

" 'Tynes',\n",

" 'converteu',\n",

" 'o',\n",

" 'field',\n",

" 'goal',\n",

" 'de',\n",

" '32',\n",

" 'jardas',\n",

" 'para',\n",

" 'abrir',\n",

" 'o',\n",

" 'placar',\n",

" '.',\n",

" '\\n\\n',\n",

" 'Eli',\n",

" 'Manning',\n",

" 'e',\n",

" 'companhia',\n",

" 'ficaram',\n",

" '9m54s',\n",

" 'com',\n",

" 'a',\n",

" 'bola',\n",

" ',',\n",

" 'mas',\n",

" 'o',\n",

" 'ataque',\n",

" 'dos',\n",

" 'Patriots',\n",

" 'não',\n",

" 'entrou',\n",

" 'em',\n",

" 'campo',\n",

" 'frio',\n",

" '.',\n",

" 'Logo',\n",

" 'no',\n",

" 'retorno',\n",

" 'do',\n",

" 'kickoff',\n",

" ',',\n",

" 'o',\n",

" 'running',\n",

" 'back',\n",

" 'Laurence',\n",

" 'Maroney',\n",

" 'avançou',\n",

" '43',\n",

" 'jardas',\n",

" ',',\n",

" 'deixando',\n",

" 'Tom',\n",

" 'Brady',\n",

" 'em',\n",

" 'boa',\n",

" 'posição',\n",

" '.',\n",

" 'Com',\n",

" 'passes',\n",

" 'curtos',\n",

" ',',\n",

" 'os',\n",

" 'Patriots',\n",

" 'chegaram',\n",

" 'à',\n",

" 'linha',\n",

" 'de',\n",

" '17',\n",

" 'jardas',\n",

" 'e',\n",

" ',',\n",

" 'graças',\n",

" 'a',\n",

" 'uma',\n",

" 'penalidade',\n",

" '(',\n",

" 'interferência',\n",

" 'de',\n",

" 'passe',\n",

" ')',\n",

" 'do',\n",

" 'linebacker',\n",

" 'Antonio',\n",

" 'Pierce',\n",

" ',',\n",

" 'alcançaram',\n",

" 'a',\n",

" 'linha',\n",

" 'de',\n",

" 'uma',\n",

" 'jarda',\n",

" '.',\n",

" 'Maroney',\n",

" 'avançou',\n",

" 'pelo',\n",

" 'chão',\n",

" 'e',\n",

" 'anotou',\n",

" 'o',\n",

" 'primeiro',\n",

" 'touchdown',\n",

" 'do',\n",

" 'jogo',\n",

" '.',\n",

" '\\n\\n',\n",

" 'Os',\n",

" 'Giants',\n",

" 'pareciam',\n",

" 'rumo',\n",

" 'à',\n",

" 'virada',\n",

" 'na',\n",

" 'campanha',\n",

" 'seguinte',\n",

" '.',\n",

" 'Manning',\n",

" 'achou',\n",

" 'Amani',\n",

" 'Toomer',\n",

" 'para',\n",

" 'um',\n",

" 'avanço',\n",

" 'de',\n",

" '38',\n",

" 'jardas',\n",

" ',',\n",

" 'e',\n",

" 'o',\n",

" 'time',\n",

" 'de',\n",

" 'Nova',\n",

" 'York',\n",

" 'entrou',\n",

" 'novamente',\n",

" 'na',\n",

" 'red',\n",

" 'zone',\n",

" '.',\n",

" 'Com',\n",

" 'a',\n",

" 'bola',\n",

" 'na',\n",

" 'linha',\n",

" 'de',\n",

" '14',\n",

" 'jardas',\n",

" 'dos',\n",

" 'Patriots',\n",

" ',',\n",

" 'os',\n",

" 'Giants',\n",

" 'sofreram',\n",

" 'um',\n",

" 'revés',\n",

" '.',\n",

" 'Manning',\n",

" 'passou',\n",

" 'para',\n",

" 'Steve',\n",

" 'Smith',\n",

" ',',\n",

" 'que',\n",

" 'soltou',\n",

" 'a',\n",

" 'bola',\n",

" '.',\n",

" 'Ellis',\n",

" 'Hobbs',\n",

" 'aproveitou',\n",

" ',',\n",

" 'tomou',\n",

" 'a',\n",

" 'posse',\n",

" 'para',\n",

" 'os',\n",

" 'Patriots',\n",

" ',',\n",

" 'e',\n",

" 'avançou',\n",

" '23',\n",

" 'jardas',\n",

" '.',\n",

" '\\n\\n',\n",

" 'A',\n",

" 'defesa',\n",

" 'de',\n",

" 'Nova',\n",

" 'York',\n",

" 'manteve',\n",

" 'o',\n",

" 'jogo',\n",

" 'equilibrado',\n",

" '.',\n",

" 'Com',\n",

" 'dois',\n",

" 'sacks',\n",

" 'seguidos',\n",

" ',',\n",

" 'os',\n",

" 'Giants',\n",

" 'forçaram',\n",

" 'o',\n",

" 'punt',\n",

" 'e',\n",

" 'recuperaram',\n",

" 'a',\n",

" 'bola',\n",

" '.',\n",

" 'Mas',\n",

" 'a',\n",

" 'campanha',\n",

" 'seguinte',\n",

" 'provou',\n",

" 'ser',\n",

" 'outra',\n",

" 'decepção',\n",

" 'para',\n",

" 'Nova',\n",

" 'York',\n",

" '.',\n",

" 'O',\n",

" 'time',\n",

" 'chegou',\n",

" 'à',\n",

" 'linha',\n",

" 'de',\n",

" '25',\n",

" 'jardas',\n",

" ',',\n",

" 'mas',\n",

" 'Manning',\n",

" 'sofreu',\n",

" 'um',\n",

" 'sack',\n",

" 'e',\n",

" 'cometeu',\n",

" 'um',\n",

" 'fumble',\n",

" ',',\n",

" 'e',\n",

" 'o',\n",

" 'ataque',\n",

" 'voltou',\n",

" 'para',\n",

" 'a',\n",

" 'linha',\n",

" 'de',\n",

" '39',\n",

" 'jardas',\n",

" ',',\n",

" 'não',\n",

" 'conseguindo',\n",

" 'pontuar',\n",

" 'mais',\n",

" 'uma',\n",

" 'vez',\n",

" '.',\n",

" '\\n\\n',\n",

" 'Os',\n",

" 'Patriots',\n",

" 'tiveram',\n",

" 'uma',\n",

" 'última',\n",

" 'chance',\n",

" 'de',\n",

" 'marcar',\n",

" 'antes',\n",

" 'do',\n",

" 'intervalo',\n",

" ',',\n",

" 'mas',\n",

" ',',\n",

" 'a',\n",

" '22',\n",

" 'segundos',\n",

" 'do',\n",

" 'fim',\n",

" 'do',\n",

" 'segundo',\n",

" 'período',\n",

" ',',\n",

" 'Brady',\n",

" 'foi',\n",

" 'novamente',\n",

" 'sacado',\n",

" '.',\n",

" 'Desta',\n",

" 'vez',\n",

" ',',\n",

" 'ele',\n",

" 'cometeu',\n",

" 'o',\n",

" 'fumble',\n",

" 'e',\n",

" 'os',\n",

" 'Giants',\n",

" 'tomaram',\n",

" 'a',\n",

" 'posse',\n",

" 'de',\n",

" 'bola',\n",

" '.',\n",

" 'Manning',\n",

" 'tentou',\n",

" 'um',\n",

" 'passe',\n",

" 'longo',\n",

" ',',\n",

" 'de',\n",

" '50',\n",

" 'jardas',\n",

" ',',\n",

" 'nos',\n",

" 'últimos',\n",

" 'segundos',\n",

" ',',\n",

" 'mas',\n",

" 'não',\n",

" 'teve',\n",

" 'sucesso',\n",

" '.',\n",

" '\\n\\n',\n",

" 'O',\n",

" 'jogo',\n",

" 'continuou',\n",

" 'amarrado',\n",

" 'no',\n",

" 'terceiro',\n",

" 'quarto',\n",

" ',',\n",

" 'com',\n",

" 'as',\n",

" 'defesas',\n",

" 'levando',\n",

" 'a',\n",

" 'melhor',\n",

" 'sobre',\n",

" 'os',\n",

" 'ataques',\n",

" '.',\n",

" 'A',\n",

" 'única',\n",

" 'chance',\n",

" 'de',\n",

" 'pontuar',\n",

" 'do',\n",

" 'período',\n",

" 'foi',\n",

" 'dos',\n",

" 'Patriots',\n",

" ',',\n",

" 'que',\n",

" 'chegaram',\n",

" 'à',\n",

" 'linha',\n",

" 'de',\n",

" '31',\n",

" 'jardas',\n",

" 'dos',\n",

" 'Giants',\n",

" '.',\n",

" 'O',\n",

" 'técnico',\n",

" 'Bill',\n",

" 'Bellichick',\n",

" ',',\n",

" 'porém',\n",

" ',',\n",

" 'optou',\n",

" 'por',\n",

" 'uma',\n",

" 'quarta',\n",

" 'descida',\n",

" 'em',\n",

" 'vez',\n",

" 'de',\n",

" 'um',\n",

" 'field',\n",

" 'goal',\n",

" '.',\n",

" 'Brady',\n",

" 'tentou',\n",

" 'um',\n",

" 'passe',\n",

" 'para',\n",

" 'Jabar',\n",

" 'Gaffney',\n",

" ',',\n",

" 'mas',\n",

" 'não',\n",

" 'conseguiu',\n",

" 'completar',\n",

" '.',\n",

" '\\n\\n',\n",

" 'O',\n",

" 'último',\n",

" 'período',\n",

" 'começou',\n",

" 'arrasador',\n",

" 'para',\n",

" 'os',\n",

" 'Giants',\n",

" '.',\n",

" 'na',\n",

" 'primeira',\n",

" 'jogada',\n",

" ',',\n",

" 'Manning',\n",

" 'achou',\n",

" 'o',\n",

" 'tight',\n",

" 'end',\n",

" 'Kevin',\n",

" 'Boss',\n",

" ',',\n",

" 'para',\n",

" 'um',\n",

" 'incrível',\n",

" 'avanço',\n",

" 'de',\n",

" '45',\n",

" 'jardas',\n",

" ',',\n",

" 'que',\n",

" 'deixou',\n",

" 'o',\n",

" 'time',\n",

" 'na',\n",

" 'linha',\n",

" 'de',\n",

" '35',\n",

" 'dos',\n",

" 'Patriots',\n",

" '.',\n",

" 'Outro',\n",

" 'lançamento',\n",

" ',',\n",

" 'desta',\n",

" 'vez',\n",

" 'para',\n",

" 'Steve',\n",

" 'Smith',\n",

" ',',\n",

" 'marcou',\n",

" 'o',\n",

" 'avanço',\n",

" 'até',\n",

" 'a',\n",

" 'linha',\n",

" 'de',\n",

" '12',\n",

" 'jardas',\n",

" '.',\n",

" 'Duas',\n",

" 'jogadas',\n",

" 'depois',\n",

" ',',\n",

" 'David',\n",

" 'Tyree',\n",

" 'pegou',\n",

" 'um',\n",

" 'passe',\n",

" 'de',\n",

" 'cinco',\n",

" 'jardas',\n",

" 'na',\n",

" 'end',\n",

" 'zone',\n",

" 'para',\n",

" 'anotar',\n",

" 'o',\n",

" 'touchdown',\n",

" 'e',\n",

" 'virar',\n",

" 'o',\n",

" 'jogo',\n",

" '.',\n",

" '\\n\\n',\n",

" 'Na',\n",

" 'hora',\n",

" 'da',\n",

" 'decisão',\n",

" ',',\n",

" 'o',\n",

" 'ataque',\n",

" 'dos',\n",

" 'Patriots',\n",

" 'voltou',\n",

" 'a',\n",

" 'funcionar',\n",

" '.',\n",

" 'Com',\n",

" 'uma',\n",

" 'série',\n",

" 'de',\n",

" 'passes',\n",

" 'curtos',\n",

" 'e',\n",

" 'variados',\n",

" ',',\n",

" 'Brady',\n",

" 'achou',\n",

" 'Wes',\n",

" 'Welker',\n",

" ',',\n",

" 'Randy',\n",

" 'Moss',\n",

" 'e',\n",

" 'Kevin',\n",

" 'Faulk',\n",

" 'seguidas',\n",

" 'vezes',\n",

" 'até',\n",

" 'chegar',\n",

" 'à',\n",

" 'red',\n",

" 'zone',\n",

" '.',\n",

" 'A',\n",

" '2m45s',\n",

" 'do',\n",

" 'fim',\n",

" ',',\n",

" 'o',\n",

" 'quarterback',\n",

" 'conectou',\n",

" 'mais',\n",

" 'uma',\n",

" 'vez',\n",

" 'com',\n",

" 'Moss',\n",

" ',',\n",

" 'que',\n",

" 'se',\n",

" 'desmarcou',\n",

" 'e',\n",

" 'ficou',\n",

" 'livre',\n",

" 'na',\n",

" 'lateral',\n",

" 'direita',\n",

" 'da',\n",

" 'end',\n",

" 'zone',\n",

" '.',\n",

" '\\n\\n',\n",

" 'Quando',\n",

" 'os',\n",

" 'fãs',\n",

" 'de',\n",

" 'New',\n",

" 'England',\n",

" 'já',\n",

" 'comemoravam',\n",

" 'a',\n",

" 'vitória',\n",

" ',',\n",

" 'o',\n",

" 'inesperado',\n",

" 'aconteceu',\n",

" '.',\n",

" 'Em',\n",

" 'uma',\n",

" 'jogada',\n",

" 'incrível',\n",

" ',',\n",

" 'Eli',\n",

" 'Manning',\n",

" 'se',\n",

" 'soltou',\n",

" 'de',\n",

" 'dois',\n",

" 'marcadores',\n",

" 'que',\n",

" 'o',\n",

" 'seguravam',\n",

" 'pela',\n",

" 'camisa',\n",

" 'e',\n",

" ',',\n",

" 'na',\n",

" 'corrida',\n",

" ',',\n",

" 'lançou',\n",

" 'para',\n",

" 'Amani',\n",

" 'Toomer',\n",

" '.',\n",

" 'O',\n",

" 'wide',\n",

" 'receiver',\n",

" ',',\n",

" 'bem',\n",

" 'marcado',\n",

" ',',\n",

" 'saltou',\n",

" 'e',\n",

" 'conseguiu',\n",

" 'a',\n",

" 'fazer',\n",

" 'recepção',\n",

" 'para',\n",

" 'um',\n",

" 'avanço',\n",

" 'de',\n",

" '32',\n",

" 'jardas',\n",

" ',',\n",

" 'deixando',\n",

" 'os',\n",

" 'Giants',\n",

" 'na',\n",

" 'linha',\n",

" 'de',\n",

" '24',\n",

" 'de',\n",

" 'New',\n",

" 'England',\n",

" '.',\n",

" '\\n\\n',\n",

" 'Quatro',\n",

" 'jogadas',\n",

" 'depois',\n",

" ',',\n",

" 'a',\n",

" '39',\n",

" 'segundos',\n",

" 'do',\n",

" 'fim',\n",

" ',',\n",

" 'Manning',\n",

" 'achou',\n",

" 'Plaxico',\n",

" 'Burress',\n",

" 'na',\n",

" 'end',\n",

" 'zone',\n",

" 'para',\n",

" 'conseguir',\n",

" 'o',\n",

" 'touchdown',\n",

" 'do',\n",

" 'título',\n",

" '.']"

]

},

"metadata": {},

"execution\_count": 18

}

]

},

{

"cell\_type": "code",

"metadata": {

"colab": {

"base\_uri": "https://localhost:8080/"

},

"id": "m\_cHef15OYBM",

"outputId": "4b422fdc-bcbf-4864-d3db-6fee853d12bb"

},

"source": [

"alpha\_tokens = [token.orth\_ for token in doc if token.is\_alpha]\n",

"print(\"Alpha Tokens: %s \" % (alpha\_tokens))\n",

"\n",

"digit\_tokens = [token.orth\_ for token in doc if token.is\_digit]\n",

"print(\"Digit Tokens: %s \" % (digit\_tokens))\n",

"\n",

"punct\_tokens = [token.orth\_ for token in doc if token.is\_punct]\n",

"print(\"Punct Tokens: %s \" % (punct\_tokens))"

],

"execution\_count": null,

"outputs": [

{

"output\_type": "stream",

"name": "stdout",

"text": [

"Alpha Tokens: ['Giants', 'batem', 'os', 'Patriots', 'no', 'Super', 'Bowl', 'XLII', 'Azarões', 'acabam', 'com', 'a', 'invencibilidade', 'de', 'New', 'England', 'e', 'ficam', 'com', 'o', 'título', 'da', 'temporada', 'm', 'Atualizado', 'em', 'm', 'Com', 'um', 'passe', 'de', 'Eli', 'Manning', 'para', 'Plaxico', 'Burress', 'a', 'segundos', 'do', 'fim', 'o', 'New', 'York', 'Giants', 'anotou', 'o', 'touchdown', 'decisivo', 'e', 'derrubou', 'o', 'favorito', 'New', 'England', 'Patriots', 'por', 'a', 'neste', 'domingo', 'em', 'Glendale', 'no', 'Super', 'Bowl', 'XLII', 'O', 'resultado', 'uma', 'das', 'maiores', 'zebras', 'da', 'história', 'do', 'Super', 'Bowl', 'acabou', 'com', 'a', 'temporada', 'perfeita', 'de', 'Tom', 'Brady', 'e', 'companhia', 'que', 'esperavam', 'fazer', 'história', 'ao', 'levantar', 'o', 'troféu', 'da', 'NFL', 'sem', 'sofrer', 'uma', 'derrota', 'no', 'ano', 'A', 'vitória', 'dos', 'Giants', 'porém', 'também', 'ficará', 'para', 'a', 'história', 'Pela', 'primeira', 'vez', 'irmãos', 'quarterbacks', 'triunfam', 'no', 'Super', 'Bowl', 'em', 'temporadas', 'consecutivas', 'No', 'ano', 'passado', 'Peyton', 'Manning', 'irmão', 'de', 'Eli', 'chegou', 'ao', 'título', 'máximo', 'da', 'NFL', 'pelo', 'Indianapolis', 'Colts', 'A', 'partida', 'Os', 'Giants', 'começaram', 'com', 'a', 'posse', 'de', 'bola', 'e', 'mostraram', 'logo', 'que', 'iriam', 'alongar', 'ao', 'máximo', 'suas', 'posses', 'de', 'bola', 'Misturando', 'corridas', 'com', 'Brandon', 'Jacobs', 'e', 'passes', 'curtos', 'o', 'time', 'de', 'Nova', 'York', 'chegou', 'à', 'red', 'zone', 'logo', 'na', 'primeira', 'campanha', 'O', 'avanço', 'no', 'entanto', 'parou', 'na', 'linha', 'de', 'jardas', 'e', 'Lawrence', 'Tynes', 'converteu', 'o', 'field', 'goal', 'de', 'jardas', 'para', 'abrir', 'o', 'placar', 'Eli', 'Manning', 'e', 'companhia', 'ficaram', 'com', 'a', 'bola', 'mas', 'o', 'ataque', 'dos', 'Patriots', 'não', 'entrou', 'em', 'campo', 'frio', 'Logo', 'no', 'retorno', 'do', 'kickoff', 'o', 'running', 'back', 'Laurence', 'Maroney', 'avançou', 'jardas', 'deixando', 'Tom', 'Brady', 'em', 'boa', 'posição', 'Com', 'passes', 'curtos', 'os', 'Patriots', 'chegaram', 'à', 'linha', 'de', 'jardas', 'e', 'graças', 'a', 'uma', 'penalidade', 'interferência', 'de', 'passe', 'do', 'linebacker', 'Antonio', 'Pierce', 'alcançaram', 'a', 'linha', 'de', 'uma', 'jarda', 'Maroney', 'avançou', 'pelo', 'chão', 'e', 'anotou', 'o', 'primeiro', 'touchdown', 'do', 'jogo', 'Os', 'Giants', 'pareciam', 'rumo', 'à', 'virada', 'na', 'campanha', 'seguinte', 'Manning', 'achou', 'Amani', 'Toomer', 'para', 'um', 'avanço', 'de', 'jardas', 'e', 'o', 'time', 'de', 'Nova', 'York', 'entrou', 'novamente', 'na', 'red', 'zone', 'Com', 'a', 'bola', 'na', 'linha', 'de', 'jardas', 'dos', 'Patriots', 'os', 'Giants', 'sofreram', 'um', 'revés', 'Manning', 'passou', 'para', 'Steve', 'Smith', 'que', 'soltou', 'a', 'bola', 'Ellis', 'Hobbs', 'aproveitou', 'tomou', 'a', 'posse', 'para', 'os', 'Patriots', 'e', 'avançou', 'jardas', 'A', 'defesa', 'de', 'Nova', 'York', 'manteve', 'o', 'jogo', 'equilibrado', 'Com', 'dois', 'sacks', 'seguidos', 'os', 'Giants', 'forçaram', 'o', 'punt', 'e', 'recuperaram', 'a', 'bola', 'Mas', 'a', 'campanha', 'seguinte', 'provou', 'ser', 'outra', 'decepção', 'para', 'Nova', 'York', 'O', 'time', 'chegou', 'à', 'linha', 'de', 'jardas', 'mas', 'Manning', 'sofreu', 'um', 'sack', 'e', 'cometeu', 'um', 'fumble', 'e', 'o', 'ataque', 'voltou', 'para', 'a', 'linha', 'de', 'jardas', 'não', 'conseguindo', 'pontuar', 'mais', 'uma', 'vez', 'Os', 'Patriots', 'tiveram', 'uma', 'última', 'chance', 'de', 'marcar', 'antes', 'do', 'intervalo', 'mas', 'a', 'segundos', 'do', 'fim', 'do', 'segundo', 'período', 'Brady', 'foi', 'novamente', 'sacado', 'Desta', 'vez', 'ele', 'cometeu', 'o', 'fumble', 'e', 'os', 'Giants', 'tomaram', 'a', 'posse', 'de', 'bola', 'Manning', 'tentou', 'um', 'passe', 'longo', 'de', 'jardas', 'nos', 'últimos', 'segundos', 'mas', 'não', 'teve', 'sucesso', 'O', 'jogo', 'continuou', 'amarrado', 'no', 'terceiro', 'quarto', 'com', 'as', 'defesas', 'levando', 'a', 'melhor', 'sobre', 'os', 'ataques', 'A', 'única', 'chance', 'de', 'pontuar', 'do', 'período', 'foi', 'dos', 'Patriots', 'que', 'chegaram', 'à', 'linha', 'de', 'jardas', 'dos', 'Giants', 'O', 'técnico', 'Bill', 'Bellichick', 'porém', 'optou', 'por', 'uma', 'quarta', 'descida', 'em', 'vez', 'de', 'um', 'field', 'goal', 'Brady', 'tentou', 'um', 'passe', 'para', 'Jabar', 'Gaffney', 'mas', 'não', 'conseguiu', 'completar', 'O', 'último', 'período', 'começou', 'arrasador', 'para', 'os', 'Giants', 'na', 'primeira', 'jogada', 'Manning', 'achou', 'o', 'tight', 'end', 'Kevin', 'Boss', 'para', 'um', 'incrível', 'avanço', 'de', 'jardas', 'que', 'deixou', 'o', 'time', 'na', 'linha', 'de', 'dos', 'Patriots', 'Outro', 'lançamento', 'desta', 'vez', 'para', 'Steve', 'Smith', 'marcou', 'o', 'avanço', 'até', 'a', 'linha', 'de', 'jardas', 'Duas', 'jogadas', 'depois', 'David', 'Tyree', 'pegou', 'um', 'passe', 'de', 'cinco', 'jardas', 'na', 'end', 'zone', 'para', 'anotar', 'o', 'touchdown', 'e', 'virar', 'o', 'jogo', 'Na', 'hora', 'da', 'decisão', 'o', 'ataque', 'dos', 'Patriots', 'voltou', 'a', 'funcionar', 'Com', 'uma', 'série', 'de', 'passes', 'curtos', 'e', 'variados', 'Brady', 'achou', 'Wes', 'Welker', 'Randy', 'Moss', 'e', 'Kevin', 'Faulk', 'seguidas', 'vezes', 'até', 'chegar', 'à', 'red', 'zone', 'A', 'do', 'fim', 'o', 'quarterback', 'conectou', 'mais', 'uma', 'vez', 'com', 'Moss', 'que', 'se', 'desmarcou', 'e', 'ficou', 'livre', 'na', 'lateral', 'direita', 'da', 'end', 'zone', 'Quando', 'os', 'fãs', 'de', 'New', 'England', 'já', 'comemoravam', 'a', 'vitória', 'o', 'inesperado', 'aconteceu', 'Em', 'uma', 'jogada', 'incrível', 'Eli', 'Manning', 'se', 'soltou', 'de', 'dois', 'marcadores', 'que', 'o', 'seguravam', 'pela', 'camisa', 'e', 'na', 'corrida', 'lançou', 'para', 'Amani', 'Toomer', 'O', 'wide', 'receiver', 'bem', 'marcado', 'saltou', 'e', 'conseguiu', 'a', 'fazer', 'recepção', 'para', 'um', 'avanço', 'de', 'jardas', 'deixando', 'os', 'Giants', 'na', 'linha', 'de', 'de', 'New', 'England', 'Quatro', 'jogadas', 'depois', 'a', 'segundos', 'do', 'fim', 'Manning', 'achou', 'Plaxico', 'Burress', 'na', 'end', 'zone', 'para', 'conseguir', 'o', 'touchdown', 'do', 'título'] \n",

"Digit Tokens: ['39', '17', '14', '17', '32', '43', '17', '38', '14', '23', '25', '39', '22', '50', '31', '45', '35', '12', '32', '24', '39'] \n",

"Punct Tokens: ['-', '-', '-', ',', ',', ',', '.', ',', ',', ',', '.', ',', ',', '.', ',', '.', ',', ',', ',', '.', ',', '.', ',', '.', ',', ',', '.', ',', '.', ',', ',', '.', ',', ',', '(', ')', ',', '.', '.', '.', ',', '.', ',', '.', ',', '.', ',', ',', '.', '.', ',', '.', '.', ',', ',', ',', '.', ',', ',', ',', '.', ',', '.', ',', ',', ',', '.', ',', '.', ',', '.', ',', ',', '.', ',', '.', '.', ',', ',', ',', '.', ',', ',', '.', ',', '.', ',', '.', ',', ',', '.', ',', ',', '.', ',', '.', ',', ',', ',', '.', ',', ',', ',', '.', ',', ',', '.'] \n"

]

}

]

},

{

"cell\_type": "markdown",

"metadata": {

"id": "GhyxDky59k9m"

},

"source": [

"\*\*Lemmatização: \*.lemma\_\*\*\*"

]

},

{

"cell\_type": "code",

"metadata": {

"colab": {

"base\_uri": "https://localhost:8080/"

},

"id": "DFlpqcyHOt-5",

"outputId": "04a0436d-3012-45e6-e78c-9a9187df2165"

},

"source": [

"lemmas = [token.lemma\_ for token in doc if token.pos\_ == 'VERB']\n",

"lemmas"

],

"execution\_count": null,

"outputs": [

{

"output\_type": "execute\_result",

"data": {

"text/plain": [

"['bater',\n",

" 'acabar',\n",

" 'ficar',\n",

" 'Atualizado',\n",

" 'anotar',\n",

" 'derrubar',\n",

" 'acabar',\n",

" 'esperar',\n",

" 'fazer',\n",

" 'levantar',\n",

" 'sofrer',\n",

" 'ficar',\n",

" 'triunfar',\n",

" 'chegar',\n",

" 'começar',\n",

" 'mostrar',\n",

" 'alongar',\n",

" 'Misturando',\n",

" 'chegar',\n",

" 'parar',\n",

" 'converter',\n",

" 'abrir',\n",

" 'ficar',\n",

" 'entrar',\n",

" 'avançar',\n",

" 'deixar',\n",

" 'chegar',\n",

" 'alcançar',\n",

" 'avançar',\n",

" 'anotar',\n",

" 'parecer',\n",

" 'achar',\n",

" 'entrar',\n",

" 'sofrer',\n",

" 'passar',\n",

" 'soltar',\n",

" 'aproveitar',\n",

" 'tomar',\n",

" 'avançar',\n",

" 'manter',\n",

" 'seguir',\n",

" 'forçar',\n",

" 'recuperar',\n",

" 'provar',\n",

" 'chegar',\n",

" 'sofrer',\n",

" 'cometer',\n",

" 'voltar',\n",

" 'conseguir',\n",

" 'pontuar',\n",

" 'ter',\n",

" 'marcar',\n",

" 'sacar',\n",

" 'cometer',\n",

" 'tomar',\n",

" 'tentar',\n",

" 'ter',\n",

" 'continuar',\n",

" 'amarrar',\n",

" 'levar',\n",

" 'pontuar',\n",

" 'chegar',\n",

" 'optar',\n",

" 'tentar',\n",

" 'conseguir',\n",

" 'completar',\n",

" 'começar',\n",

" 'achar',\n",

" 'deixar',\n",

" 'marcar',\n",

" 'pegar',\n",

" 'anotar',\n",

" 'virar',\n",

" 'voltar',\n",

" 'funcionar',\n",

" 'achar',\n",

" 'seguir',\n",

" 'chegar',\n",

" 'conectar',\n",

" 'desmarcar',\n",

" 'ficar',\n",

" 'comemorar',\n",

" 'acontecer',\n",

" 'soltar',\n",

" 'segurar',\n",

" 'lançar',\n",

" 'marcar',\n",

" 'saltar',\n",

" 'conseguir',\n",

" 'fazer',\n",

" 'deixar',\n",

" 'achar',\n",

" 'conseguir']"

]

},

"metadata": {},

"execution\_count": 20

}

]

},

{

"cell\_type": "markdown",

"metadata": {

"id": "lp7NrAUw9tWl"

},

"source": [

"\*\*Etiquetas morfosintáticas: \*.pos\_\*\*\*"

]

},

{

"cell\_type": "code",

"metadata": {

"colab": {

"base\_uri": "https://localhost:8080/"

},

"id": "FJ6n-uiFP2DR",

"outputId": "ed5fe2dc-7b7f-4911-e93e-0a5fc7e072a0"

},

"source": [

"pos = [(token.orth\_, token.pos\_) for token in doc]\n",

"pos"

],

"execution\_count": null,

"outputs": [

{

"output\_type": "execute\_result",

"data": {

"text/plain": [

"[('Giants', 'PROPN'),\n",

" ('batem', 'VERB'),\n",

" ('os', 'DET'),\n",

" ('Patriots', 'PROPN'),\n",

" ('no', 'ADP'),\n",

" ('Super', 'PROPN'),\n",

" ('Bowl', 'PROPN'),\n",

" ('XLII', 'PROPN'),\n",

" ('\\n', 'SPACE'),\n",

" ('Azarões', 'PROPN'),\n",

" ('acabam', 'VERB'),\n",

" ('com', 'ADP'),\n",

" ('a', 'DET'),\n",

" ('invencibilidade', 'NOUN'),\n",

" ('de', 'ADP'),\n",

" ('New', 'PROPN'),\n",

" ('England', 'PROPN'),\n",

" ('e', 'CCONJ'),\n",

" ('ficam', 'VERB'),\n",

" ('com', 'ADP'),\n",

" ('o', 'DET'),\n",

" ('título', 'NOUN'),\n",

" ('da', 'ADP'),\n",

" ('temporada', 'NOUN'),\n",

" ('\\n', 'SPACE'),\n",

" ('04/02/2008', 'NUM'),\n",

" ('-', 'PUNCT'),\n",

" ('01h07', 'NUM'),\n",

" ('m', 'NUM'),\n",

" ('-', 'PUNCT'),\n",

" ('Atualizado', 'VERB'),\n",

" ('em', 'ADP'),\n",

" ('04/02/2008', 'NUM'),\n",

" ('-', 'PUNCT'),\n",

" ('09h49', 'NUM'),\n",

" ('m', 'ADP'),\n",

" ('\\n\\n', 'SPACE'),\n",

" ('Com', 'ADP'),\n",

" ('um', 'DET'),\n",

" ('passe', 'NOUN'),\n",

" ('de', 'ADP'),\n",

" ('Eli', 'PROPN'),\n",

" ('Manning', 'PROPN'),\n",

" ('para', 'ADP'),\n",

" ('Plaxico', 'PROPN'),\n",

" ('Burress', 'PROPN'),\n",

" ('a', 'ADP'),\n",

" ('39', 'NUM'),\n",

" ('segundos', 'NOUN'),\n",

" ('do', 'ADP'),\n",

" ('fim', 'NOUN'),\n",

" (',', 'PUNCT'),\n",

" ('o', 'DET'),\n",

" ('New', 'PROPN'),\n",

" ('York', 'PROPN'),\n",

" ('Giants', 'PROPN'),\n",

" ('anotou', 'VERB'),\n",

" ('o', 'DET'),\n",

" ('touchdown', 'NOUN'),\n",

" ('decisivo', 'ADJ'),\n",

" ('e', 'CCONJ'),\n",

" ('derrubou', 'VERB'),\n",

" ('o', 'DET'),\n",

" ('favorito', 'NOUN'),\n",

" ('New', 'PROPN'),\n",

" ('England', 'PROPN'),\n",

" ('Patriots', 'PROPN'),\n",

" ('por', 'ADP'),\n",

" ('17', 'NUM'),\n",

" ('a', 'ADP'),\n",

" ('14', 'NUM'),\n",

" ('neste', 'ADP'),\n",

" ('domingo', 'NOUN'),\n",

" (',', 'PUNCT'),\n",

" ('em', 'ADP'),\n",

" ('Glendale', 'PROPN'),\n",

" (',', 'PUNCT'),\n",

" ('no', 'ADP'),\n",

" ('Super', 'PROPN'),\n",

" ('Bowl', 'PROPN'),\n",

" ('XLII', 'PROPN'),\n",

" ('.', 'PUNCT'),\n",

" ('O', 'DET'),\n",

" ('resultado', 'NOUN'),\n",

" (',', 'PUNCT'),\n",

" ('uma', 'NUM'),\n",

" ('das', 'ADP'),\n",

" ('maiores', 'ADJ'),\n",

" ('zebras', 'NOUN'),\n",

" ('da', 'ADP'),\n",

" ('história', 'NOUN'),\n",

" ('do', 'ADP'),\n",

" ('Super', 'PROPN'),\n",

" ('Bowl', 'PROPN'),\n",

" (',', 'PUNCT'),\n",

" ('acabou', 'VERB'),\n",

" ('com', 'ADP'),\n",

" ('a', 'DET'),\n",

" ('temporada', 'NOUN'),\n",

" ('perfeita', 'ADJ'),\n",

" ('de', 'ADP'),\n",

" ('Tom', 'PROPN'),\n",

" ('Brady', 'PROPN'),\n",

" ('e', 'CCONJ'),\n",

" ('companhia', 'NOUN'),\n",

" (',', 'PUNCT'),\n",

" ('que', 'PRON'),\n",

" ('esperavam', 'VERB'),\n",

" ('fazer', 'VERB'),\n",

" ('história', 'NOUN'),\n",

" ('ao', 'SCONJ'),\n",

" ('levantar', 'VERB'),\n",

" ('o', 'DET'),\n",

" ('troféu', 'NOUN'),\n",

" ('da', 'ADP'),\n",

" ('NFL', 'PROPN'),\n",

" ('sem', 'SCONJ'),\n",

" ('sofrer', 'VERB'),\n",

" ('uma', 'DET'),\n",

" ('derrota', 'NOUN'),\n",

" ('no', 'ADP'),\n",

" ('ano', 'NOUN'),\n",

" ('.', 'PUNCT'),\n",

" ('\\n\\n', 'SPACE'),\n",

" ('A', 'DET'),\n",

" ('vitória', 'NOUN'),\n",

" ('dos', 'ADP'),\n",

" ('Giants', 'PROPN'),\n",

" (',', 'PUNCT'),\n",

" ('porém', 'CCONJ'),\n",

" (',', 'PUNCT'),\n",

" ('também', 'ADV'),\n",

" ('ficará', 'VERB'),\n",

" ('para', 'ADP'),\n",

" ('a', 'DET'),\n",

" ('história', 'NOUN'),\n",

" ('.', 'PUNCT'),\n",

" ('Pela', 'NOUN'),\n",

" ('primeira', 'ADP'),\n",

" ('vez', 'NOUN'),\n",

" (',', 'PUNCT'),\n",

" ('irmãos', 'NOUN'),\n",

" ('quarterbacks', 'ADJ'),\n",

" ('triunfam', 'VERB'),\n",

" ('no', 'ADP'),\n",

" ('Super', 'PROPN'),\n",

" ('Bowl', 'PROPN'),\n",

" ('em', 'ADP'),\n",

" ('temporadas', 'NOUN'),\n",

" ('consecutivas', 'ADJ'),\n",

" ('.', 'PUNCT'),\n",

" ('No', 'ADP'),\n",

" ('ano', 'NOUN'),\n",

" ('passado', 'ADJ'),\n",

" (',', 'PUNCT'),\n",

" ('Peyton', 'PROPN'),\n",

" ('Manning', 'PROPN'),\n",

" (',', 'PUNCT'),\n",

" ('irmão', 'NOUN'),\n",

" ('de', 'ADP'),\n",

" ('Eli', 'PROPN'),\n",

" (',', 'PUNCT'),\n",

" ('chegou', 'VERB'),\n",

" ('ao', 'ADP'),\n",

" ('título', 'NOUN'),\n",

" ('máximo', 'ADJ'),\n",

" ('da', 'ADP'),\n",

" ('NFL', 'PROPN'),\n",

" ('pelo', 'ADP'),\n",

" ('Indianapolis', 'PROPN'),\n",

" ('Colts', 'PROPN'),\n",

" ('.', 'PUNCT'),\n",

" ('\\n\\n', 'SPACE'),\n",

" ('A', 'DET'),\n",

" ('partida', 'NOUN'),\n",

" ('\\n\\n', 'SPACE'),\n",

" ('Os', 'DET'),\n",

" ('Giants', 'PROPN'),\n",

" ('começaram', 'VERB'),\n",

" ('com', 'ADP'),\n",

" ('a', 'DET'),\n",

" ('posse', 'NOUN'),\n",

" ('de', 'ADP'),\n",

" ('bola', 'NOUN'),\n",

" (',', 'PUNCT'),\n",

" ('e', 'CCONJ'),\n",

" ('mostraram', 'VERB'),\n",

" ('logo', 'ADV'),\n",

" ('que', 'SCONJ'),\n",

" ('iriam', 'AUX'),\n",

" ('alongar', 'VERB'),\n",

" ('ao', 'ADP'),\n",

" ('máximo', 'NOUN'),\n",

" ('suas', 'DET'),\n",

" ('posses', 'NOUN'),\n",

" ('de', 'ADP'),\n",

" ('bola', 'NOUN'),\n",

" ('.', 'PUNCT'),\n",

" ('Misturando', 'VERB'),\n",

" ('corridas', 'NOUN'),\n",

" ('com', 'ADP'),\n",

" ('Brandon', 'PROPN'),\n",

" ('Jacobs', 'PROPN'),\n",

" ('e', 'CCONJ'),\n",

" ('passes', 'NOUN'),\n",

" ('curtos', 'ADJ'),\n",

" (',', 'PUNCT'),\n",

" ('o', 'DET'),\n",

" ('time', 'NOUN'),\n",

" ('de', 'ADP'),\n",

" ('Nova', 'PROPN'),\n",

" ('York', 'PROPN'),\n",

" ('chegou', 'VERB'),\n",

" ('à', 'ADP'),\n",

" ('red', 'ADJ'),\n",

" ('zone', 'NOUN'),\n",

" ('logo', 'ADV'),\n",

" ('na', 'ADP'),\n",

" ('primeira', 'ADJ'),\n",

" ('campanha', 'NOUN'),\n",

" ('.', 'PUNCT'),\n",

" ('O', 'DET'),\n",

" ('avanço', 'NOUN'),\n",

" (',', 'PUNCT'),\n",

" ('no', 'ADP'),\n",

" ('entanto', 'NOUN'),\n",

" (',', 'PUNCT'),\n",

" ('parou', 'VERB'),\n",

" ('na', 'ADP'),\n",

" ('linha', 'NOUN'),\n",

" ('de', 'ADP'),\n",

" ('17', 'NUM'),\n",

" ('jardas', 'NOUN'),\n",

" ('e', 'CCONJ'),\n",

" ('Lawrence', 'PROPN'),\n",

" ('Tynes', 'PROPN'),\n",

" ('converteu', 'VERB'),\n",

" ('o', 'DET'),\n",

" ('field', 'NOUN'),\n",

" ('goal', 'NOUN'),\n",

" ('de', 'ADP'),\n",

" ('32', 'NUM'),\n",

" ('jardas', 'NOUN'),\n",

" ('para', 'SCONJ'),\n",

" ('abrir', 'VERB'),\n",

" ('o', 'DET'),\n",

" ('placar', 'NOUN'),\n",

" ('.', 'PUNCT'),\n",

" ('\\n\\n', 'SPACE'),\n",

" ('Eli', 'PROPN'),\n",

" ('Manning', 'PROPN'),\n",

" ('e', 'CCONJ'),\n",

" ('companhia', 'NOUN'),\n",

" ('ficaram', 'VERB'),\n",

" ('9m54s', 'NUM'),\n",

" ('com', 'ADP'),\n",

" ('a', 'DET'),\n",

" ('bola', 'NOUN'),\n",

" (',', 'PUNCT'),\n",

" ('mas', 'CCONJ'),\n",

" ('o', 'DET'),\n",

" ('ataque', 'NOUN'),\n",

" ('dos', 'ADP'),\n",

" ('Patriots', 'PROPN'),\n",

" ('não', 'ADV'),\n",

" ('entrou', 'VERB'),\n",

" ('em', 'ADP'),\n",

" ('campo', 'NOUN'),\n",

" ('frio', 'ADJ'),\n",

" ('.', 'PUNCT'),\n",

" ('Logo', 'ADV'),\n",

" ('no', 'ADP'),\n",

" ('retorno', 'NOUN'),\n",

" ('do', 'ADP'),\n",

" ('kickoff', 'NOUN'),\n",

" (',', 'PUNCT'),\n",

" ('o', 'DET'),\n",

" ('running', 'NOUN'),\n",

" ('back', 'PROPN'),\n",

" ('Laurence', 'PROPN'),\n",

" ('Maroney', 'PROPN'),\n",

" ('avançou', 'VERB'),\n",

" ('43', 'NUM'),\n",

" ('jardas', 'NOUN'),\n",

" (',', 'PUNCT'),\n",

" ('deixando', 'VERB'),\n",

" ('Tom', 'PROPN'),\n",

" ('Brady', 'PROPN'),\n",

" ('em', 'ADP'),\n",

" ('boa', 'ADJ'),\n",

" ('posição', 'NOUN'),\n",

" ('.', 'PUNCT'),\n",

" ('Com', 'ADP'),\n",

" ('passes', 'NOUN'),\n",

" ('curtos', 'ADJ'),\n",

" (',', 'PUNCT'),\n",

" ('os', 'DET'),\n",

" ('Patriots', 'PROPN'),\n",

" ('chegaram', 'VERB'),\n",

" ('à', 'ADP'),\n",

" ('linha', 'NOUN'),\n",

" ('de', 'ADP'),\n",

" ('17', 'NUM'),\n",

" ('jardas', 'NOUN'),\n",

" ('e', 'CCONJ'),\n",

" (',', 'PUNCT'),\n",

" ('graças', 'ADV'),\n",

" ('a', 'ADP'),\n",

" ('uma', 'DET'),\n",

" ('penalidade', 'NOUN'),\n",

" ('(', 'PUNCT'),\n",

" ('interferência', 'NOUN'),\n",

" ('de', 'ADP'),\n",

" ('passe', 'NOUN'),\n",

" (')', 'PUNCT'),\n",

" ('do', 'ADP'),\n",

" ('linebacker', 'NOUN'),\n",

" ('Antonio', 'PROPN'),\n",

" ('Pierce', 'PROPN'),\n",

" (',', 'PUNCT'),\n",

" ('alcançaram', 'VERB'),\n",

" ('a', 'DET'),\n",

" ('linha', 'NOUN'),\n",

" ('de', 'ADP'),\n",

" ('uma', 'DET'),\n",

" ('jarda', 'NOUN'),\n",

" ('.', 'PUNCT'),\n",

" ('Maroney', 'PROPN'),\n",

" ('avançou', 'VERB'),\n",

" ('pelo', 'ADP'),\n",

" ('chão', 'NOUN'),\n",

" ('e', 'CCONJ'),\n",

" ('anotou', 'VERB'),\n",

" ('o', 'DET'),\n",

" ('primeiro', 'ADJ'),\n",

" ('touchdown', 'NOUN'),\n",

" ('do', 'ADP'),\n",

" ('jogo', 'NOUN'),\n",

" ('.', 'PUNCT'),\n",

" ('\\n\\n', 'SPACE'),\n",

" ('Os', 'DET'),\n",

" ('Giants', 'PROPN'),\n",

" ('pareciam', 'VERB'),\n",

" ('rumo', 'ADV'),\n",

" ('à', 'ADP'),\n",

" ('virada', 'NOUN'),\n",

" ('na', 'ADP'),\n",

" ('campanha', 'NOUN'),\n",

" ('seguinte', 'ADJ'),\n",

" ('.', 'PUNCT'),\n",

" ('Manning', 'PROPN'),\n",

" ('achou', 'VERB'),\n",

" ('Amani', 'PROPN'),\n",

" ('Toomer', 'PROPN'),\n",

" ('para', 'ADP'),\n",

" ('um', 'DET'),\n",

" ('avanço', 'NOUN'),\n",

" ('de', 'ADP'),\n",

" ('38', 'NUM'),\n",

" ('jardas', 'NOUN'),\n",

" (',', 'PUNCT'),\n",

" ('e', 'CCONJ'),\n",

" ('o', 'DET'),\n",

" ('time', 'NOUN'),\n",

" ('de', 'ADP'),\n",

" ('Nova', 'PROPN'),\n",

" ('York', 'PROPN'),\n",

" ('entrou', 'VERB'),\n",

" ('novamente', 'ADV'),\n",

" ('na', 'ADP'),\n",

" ('red', 'ADJ'),\n",

" ('zone', 'NOUN'),\n",

" ('.', 'PUNCT'),\n",

" ('Com', 'ADP'),\n",

" ('a', 'DET'),\n",

" ('bola', 'NOUN'),\n",

" ('na', 'ADP'),\n",

" ('linha', 'NOUN'),\n",

" ('de', 'ADP'),\n",

" ('14', 'NUM'),\n",

" ('jardas', 'NOUN'),\n",

" ('dos', 'ADP'),\n",

" ('Patriots', 'PROPN'),\n",

" (',', 'PUNCT'),\n",

" ('os', 'DET'),\n",

" ('Giants', 'PROPN'),\n",

" ('sofreram', 'VERB'),\n",

" ('um', 'DET'),\n",

" ('revés', 'NOUN'),\n",

" ('.', 'PUNCT'),\n",

" ('Manning', 'PROPN'),\n",

" ('passou', 'VERB'),\n",

" ('para', 'ADP'),\n",

" ('Steve', 'PROPN'),\n",

" ('Smith', 'PROPN'),\n",

" (',', 'PUNCT'),\n",

" ('que', 'PRON'),\n",

" ('soltou', 'VERB'),\n",

" ('a', 'DET'),\n",

" ('bola', 'NOUN'),\n",

" ('.', 'PUNCT'),\n",

" ('Ellis', 'PROPN'),\n",

" ('Hobbs', 'PROPN'),\n",

" ('aproveitou', 'VERB'),\n",

" (',', 'PUNCT'),\n",

" ('tomou', 'VERB'),\n",

" ('a', 'DET'),\n",

" ('posse', 'NOUN'),\n",

" ('para', 'ADP'),\n",

" ('os', 'DET'),\n",

" ('Patriots', 'PROPN'),\n",

" (',', 'PUNCT'),\n",

" ('e', 'CCONJ'),\n",

" ('avançou', 'VERB'),\n",

" ('23', 'NUM'),\n",

" ('jardas', 'NOUN'),\n",

" ('.', 'PUNCT'),\n",

" ('\\n\\n', 'SPACE'),\n",

" ('A', 'DET'),\n",

" ('defesa', 'NOUN'),\n",

" ('de', 'ADP'),\n",

" ('Nova', 'PROPN'),\n",

" ('York', 'PROPN'),\n",

" ('manteve', 'VERB'),\n",

" ('o', 'DET'),\n",

" ('jogo', 'NOUN'),\n",

" ('equilibrado', 'ADJ'),\n",

" ('.', 'PUNCT'),\n",

" ('Com', 'ADP'),\n",

" ('dois', 'NUM'),\n",

" ('sacks', 'NOUN'),\n",

" ('seguidos', 'VERB'),\n",

" (',', 'PUNCT'),\n",

" ('os', 'DET'),\n",

" ('Giants', 'PROPN'),\n",

" ('forçaram', 'VERB'),\n",

" ('o', 'DET'),\n",

" ('punt', 'NOUN'),\n",

" ('e', 'CCONJ'),\n",

" ('recuperaram', 'VERB'),\n",

" ('a', 'DET'),\n",

" ('bola', 'NOUN'),\n",

" ('.', 'PUNCT'),\n",

" ('Mas', 'CCONJ'),\n",

" ('a', 'DET'),\n",

" ('campanha', 'NOUN'),\n",

" ('seguinte', 'ADJ'),\n",

" ('provou', 'VERB'),\n",

" ('ser', 'AUX'),\n",

" ('outra', 'DET'),\n",

" ('decepção', 'NOUN'),\n",

" ('para', 'ADP'),\n",

" ('Nova', 'PROPN'),\n",

" ('York', 'PROPN'),\n",

" ('.', 'PUNCT'),\n",

" ('O', 'DET'),\n",

" ('time', 'NOUN'),\n",

" ('chegou', 'VERB'),\n",

" ('à', 'ADP'),\n",

" ('linha', 'NOUN'),\n",

" ('de', 'ADP'),\n",

" ('25', 'NUM'),\n",

" ('jardas', 'NOUN'),\n",

" (',', 'PUNCT'),\n",

" ('mas', 'CCONJ'),\n",

" ('Manning', 'PROPN'),\n",

" ('sofreu', 'VERB'),\n",

" ('um', 'DET'),\n",

" ('sack', 'NOUN'),\n",

" ('e', 'CCONJ'),\n",

" ('cometeu', 'VERB'),\n",

" ('um', 'DET'),\n",

" ('fumble', 'NOUN'),\n",

" (',', 'PUNCT'),\n",

" ('e', 'CCONJ'),\n",

" ('o', 'DET'),\n",

" ('ataque', 'NOUN'),\n",

" ('voltou', 'VERB'),\n",

" ('para', 'ADP'),\n",

" ('a', 'DET'),\n",

" ('linha', 'NOUN'),\n",

" ('de', 'ADP'),\n",

" ('39', 'NUM'),\n",

" ('jardas', 'NOUN'),\n",

" (',', 'PUNCT'),\n",

" ('não', 'ADV'),\n",

" ('conseguindo', 'VERB'),\n",

" ('pontuar', 'VERB'),\n",

" ('mais', 'ADV'),\n",

" ('uma', 'ADP'),\n",

" ('vez', 'NOUN'),\n",

" ('.', 'PUNCT'),\n",

" ('\\n\\n', 'SPACE'),\n",

" ('Os', 'DET'),\n",

" ('Patriots', 'PROPN'),\n",

" ('tiveram', 'VERB'),\n",

" ('uma', 'DET'),\n",

" ('última', 'ADJ'),\n",

" ('chance', 'NOUN'),\n",

" ('de', 'SCONJ'),\n",

" ('marcar', 'VERB'),\n",

" ('antes', 'ADV'),\n",

" ('do', 'ADP'),\n",

" ('intervalo', 'NOUN'),\n",

" (',', 'PUNCT'),\n",

" ('mas', 'CCONJ'),\n",

" (',', 'PUNCT'),\n",

" ('a', 'ADP'),\n",

" ('22', 'NUM'),\n",

" ('segundos', 'NOUN'),\n",

" ('do', 'ADP'),\n",

" ('fim', 'NOUN'),\n",

" ('do', 'ADP'),\n",

" ('segundo', 'ADJ'),\n",

" ('período', 'NOUN'),\n",

" (',', 'PUNCT'),\n",

" ('Brady', 'PROPN'),\n",

" ('foi', 'AUX'),\n",

" ('novamente', 'ADV'),\n",

" ('sacado', 'VERB'),\n",

" ('.', 'PUNCT'),\n",

" ('Desta', 'ADP'),\n",

" ('vez', 'NOUN'),\n",

" (',', 'PUNCT'),\n",

" ('ele', 'PRON'),\n",

" ('cometeu', 'VERB'),\n",

" ('o', 'DET'),\n",

" ('fumble', 'NOUN'),\n",

" ('e', 'CCONJ'),\n",

" ('os', 'DET'),\n",

" ('Giants', 'PROPN'),\n",

" ('tomaram', 'VERB'),\n",

" ('a', 'DET'),\n",

" ('posse', 'NOUN'),\n",

" ('de', 'ADP'),\n",

" ('bola', 'NOUN'),\n",

" ('.', 'PUNCT'),\n",

" ('Manning', 'PROPN'),\n",

" ('tentou', 'VERB'),\n",

" ('um', 'DET'),\n",

" ('passe', 'NOUN'),\n",

" ('longo', 'ADJ'),\n",

" (',', 'PUNCT'),\n",

" ('de', 'ADP'),\n",

" ('50', 'NUM'),\n",

" ('jardas', 'NOUN'),\n",

" (',', 'PUNCT'),\n",

" ('nos', 'ADP'),\n",

" ('últimos', 'ADJ'),\n",

" ('segundos', 'NOUN'),\n",

" (',', 'PUNCT'),\n",

" ('mas', 'CCONJ'),\n",

" ('não', 'ADV'),\n",

" ('teve', 'VERB'),\n",

" ('sucesso', 'NOUN'),\n",

" ('.', 'PUNCT'),\n",

" ('\\n\\n', 'SPACE'),\n",

" ('O', 'DET'),\n",

" ('jogo', 'NOUN'),\n",

" ('continuou', 'VERB'),\n",

" ('amarrado', 'VERB'),\n",

" ('no', 'ADP'),\n",

" ('terceiro', 'ADJ'),\n",

" ('quarto', 'NOUN'),\n",

" (',', 'PUNCT'),\n",

" ('com', 'ADP'),\n",

" ('as', 'DET'),\n",

" ('defesas', 'NOUN'),\n",

" ('levando', 'VERB'),\n",

" ('a', 'DET'),\n",

" ('melhor', 'ADV'),\n",

" ('sobre', 'ADP'),\n",

" ('os', 'DET'),\n",

" ('ataques', 'NOUN'),\n",

" ('.', 'PUNCT'),\n",

" ('A', 'DET'),\n",

" ('única', 'ADJ'),\n",

" ('chance', 'NOUN'),\n",

" ('de', 'SCONJ'),\n",

" ('pontuar', 'VERB'),\n",

" ('do', 'ADP'),\n",

" ('período', 'NOUN'),\n",

" ('foi', 'AUX'),\n",

" ('dos', 'ADP'),\n",

" ('Patriots', 'PROPN'),\n",

" (',', 'PUNCT'),\n",

" ('que', 'PRON'),\n",

" ('chegaram', 'VERB'),\n",

" ('à', 'ADP'),\n",

" ('linha', 'NOUN'),\n",

" ('de', 'ADP'),\n",

" ('31', 'NUM'),\n",

" ('jardas', 'NOUN'),\n",

" ('dos', 'ADP'),\n",

" ('Giants', 'PROPN'),\n",

" ('.', 'PUNCT'),\n",

" ('O', 'DET'),\n",

" ('técnico', 'NOUN'),\n",

" ('Bill', 'PROPN'),\n",

" ('Bellichick', 'PROPN'),\n",

" (',', 'PUNCT'),\n",

" ('porém', 'CCONJ'),\n",

" (',', 'PUNCT'),\n",

" ('optou', 'VERB'),\n",

" ('por', 'ADP'),\n",

" ('uma', 'DET'),\n",

" ('quarta', 'ADJ'),\n",

" ('descida', 'NOUN'),\n",

" ('em', 'ADP'),\n",

" ('vez', 'NOUN'),\n",

" ('de', 'ADP'),\n",

" ('um', 'DET'),\n",

" ('field', 'NOUN'),\n",

" ('goal', 'PROPN'),\n",

" ('.', 'PUNCT'),\n",

" ('Brady', 'PROPN'),\n",

" ('tentou', 'VERB'),\n",

" ('um', 'DET'),\n",

" ('passe', 'NOUN'),\n",

" ('para', 'ADP'),\n",

" ('Jabar', 'PROPN'),\n",

" ('Gaffney', 'PROPN'),\n",

" (',', 'PUNCT'),\n",

" ('mas', 'CCONJ'),\n",

" ('não', 'ADV'),\n",

" ('conseguiu', 'VERB'),\n",

" ('completar', 'VERB'),\n",

" ('.', 'PUNCT'),\n",

" ('\\n\\n', 'SPACE'),\n",

" ('O', 'DET'),\n",

" ('último', 'ADJ'),\n",

" ('período', 'NOUN'),\n",

" ('começou', 'VERB'),\n",

" ('arrasador', 'NOUN'),\n",

" ('para', 'ADP'),\n",

" ('os', 'DET'),\n",

" ('Giants', 'PROPN'),\n",

" ('.', 'PUNCT'),\n",

" ('na', 'ADP'),\n",

" ('primeira', 'ADJ'),\n",

" ('jogada', 'NOUN'),\n",

" (',', 'PUNCT'),\n",

" ('Manning', 'PROPN'),\n",

" ('achou', 'VERB'),\n",

" ('o', 'DET'),\n",

" ('tight', 'NOUN'),\n",

" ('end', 'X'),\n",

" ('Kevin', 'PROPN'),\n",

" ('Boss', 'PROPN'),\n",

" (',', 'PUNCT'),\n",

" ('para', 'ADP'),\n",

" ('um', 'DET'),\n",

" ('incrível', 'ADJ'),\n",

" ('avanço', 'NOUN'),\n",

" ('de', 'ADP'),\n",

" ('45', 'NUM'),\n",

" ('jardas', 'NOUN'),\n",

" (',', 'PUNCT'),\n",

" ('que', 'PRON'),\n",

" ('deixou', 'VERB'),\n",

" ('o', 'DET'),\n",

" ('time', 'NOUN'),\n",

" ('na', 'ADP'),\n",

" ('linha', 'NOUN'),\n",

" ('de', 'ADP'),\n",

" ('35', 'NUM'),\n",

" ('dos', 'ADP'),\n",

" ('Patriots', 'PROPN'),\n",

" ('.', 'PUNCT'),\n",

" ('Outro', 'DET'),\n",

" ('lançamento', 'NOUN'),\n",

" (',', 'PUNCT'),\n",

" ('desta', 'ADP'),\n",

" ('vez', 'NOUN'),\n",

" ('para', 'ADP'),\n",

" ('Steve', 'PROPN'),\n",

" ('Smith', 'PROPN'),\n",

" (',', 'PUNCT'),\n",

" ('marcou', 'VERB'),\n",

" ('o', 'DET'),\n",

" ('avanço', 'NOUN'),\n",

" ('até', 'ADP'),\n",

" ('a', 'DET'),\n",

" ('linha', 'NOUN'),\n",

" ('de', 'ADP'),\n",

" ('12', 'NUM'),\n",

" ('jardas', 'NOUN'),\n",

" ('.', 'PUNCT'),\n",

" ('Duas', 'NUM'),\n",

" ('jogadas', 'NOUN'),\n",

" ('depois', 'ADV'),\n",

" (',', 'PUNCT'),\n",

" ('David', 'PROPN'),\n",

" ('Tyree', 'PROPN'),\n",

" ('pegou', 'VERB'),\n",

" ('um', 'DET'),\n",

" ('passe', 'NOUN'),\n",

" ('de', 'ADP'),\n",

" ('cinco', 'NUM'),\n",

" ('jardas', 'NOUN'),\n",

" ('na', 'ADP'),\n",

" ('end', 'X'),\n",

" ('zone', 'X'),\n",

" ('para', 'SCONJ'),\n",

" ('anotar', 'VERB'),\n",

" ('o', 'DET'),\n",

" ('touchdown', 'NOUN'),\n",

" ('e', 'CCONJ'),\n",

" ('virar', 'VERB'),\n",

" ('o', 'DET'),\n",

" ('jogo', 'NOUN'),\n",

" ('.', 'PUNCT'),\n",

" ('\\n\\n', 'SPACE'),\n",

" ('Na', 'ADP'),\n",

" ('hora', 'NOUN'),\n",

" ('da', 'ADP'),\n",

" ('decisão', 'NOUN'),\n",

" (',', 'PUNCT'),\n",

" ('o', 'DET'),\n",

" ('ataque', 'NOUN'),\n",

" ('dos', 'ADP'),\n",

" ('Patriots', 'PROPN'),\n",

" ('voltou', 'VERB'),\n",

" ('a', 'SCONJ'),\n",

" ('funcionar', 'VERB'),\n",

" ('.', 'PUNCT'),\n",

" ('Com', 'ADP'),\n",

" ('uma', 'DET'),\n",

" ('série', 'NOUN'),\n",

" ('de', 'ADP'),\n",

" ('passes', 'NOUN'),\n",

" ('curtos', 'ADJ'),\n",

" ('e', 'CCONJ'),\n",

" ('variados', 'ADJ'),\n",

" (',', 'PUNCT'),\n",

" ('Brady', 'PROPN'),\n",

" ('achou', 'VERB'),\n",

" ('Wes', 'PROPN'),\n",

" ('Welker', 'PROPN'),\n",

" (',', 'PUNCT'),\n",

" ('Randy', 'PROPN'),\n",

" ('Moss', 'PROPN'),\n",

" ('e', 'CCONJ'),\n",

" ('Kevin', 'PROPN'),\n",

" ('Faulk', 'PROPN'),\n",

" ('seguidas', 'VERB'),\n",

" ('vezes', 'NOUN'),\n",

" ('até', 'ADV'),\n",

" ('chegar', 'VERB'),\n",

" ('à', 'ADP'),\n",

" ('red', 'ADJ'),\n",

" ('zone', 'NOUN'),\n",

" ('.', 'PUNCT'),\n",

" ('A', 'DET'),\n",

" ('2m45s', 'PROPN'),\n",

" ('do', 'ADP'),\n",

" ('fim', 'NOUN'),\n",

" (',', 'PUNCT'),\n",

" ('o', 'DET'),\n",

" ('quarterback', 'NOUN'),\n",

" ('conectou', 'VERB'),\n",

" ('mais', 'ADV'),\n",

" ('uma', 'ADP'),\n",

" ('vez', 'NOUN'),\n",

" ('com', 'ADP'),\n",

" ('Moss', 'PROPN'),\n",

" (',', 'PUNCT'),\n",

" ('que', 'PRON'),\n",

" ('se', 'PRON'),\n",

" ('desmarcou', 'VERB'),\n",

" ('e', 'CCONJ'),\n",

" ('ficou', 'VERB'),\n",

" ('livre', 'ADJ'),\n",

" ('na', 'ADP'),\n",

" ('lateral', 'NOUN'),\n",

" ('direita', 'ADJ'),\n",

" ('da', 'ADP'),\n",

" ('end', 'X'),\n",

" ('zone', 'X'),\n",

" ('.', 'PUNCT'),\n",

" ('\\n\\n', 'SPACE'),\n",

" ('Quando', 'SCONJ'),\n",

" ('os', 'DET'),\n",

" ('fãs', 'NOUN'),\n",

" ('de', 'ADP'),\n",

" ('New', 'PROPN'),\n",

" ('England', 'PROPN'),\n",

" ('já', 'ADV'),\n",

" ('comemoravam', 'VERB'),\n",

" ('a', 'DET'),\n",

" ('vitória', 'NOUN'),\n",

" (',', 'PUNCT'),\n",

" ('o', 'DET'),\n",

" ('inesperado', 'NOUN'),\n",

" ('aconteceu', 'VERB'),\n",

" ('.', 'PUNCT'),\n",

" ('Em', 'ADP'),\n",

" ('uma', 'DET'),\n",

" ('jogada', 'NOUN'),\n",

" ('incrível', 'ADJ'),\n",

" (',', 'PUNCT'),\n",

" ('Eli', 'PROPN'),\n",

" ('Manning', 'PROPN'),\n",

" ('se', 'PRON'),\n",

" ('soltou', 'VERB'),\n",

" ('de', 'ADP'),\n",

" ('dois', 'NUM'),\n",

" ('marcadores', 'NOUN'),\n",

" ('que', 'PRON'),\n",

" ('o', 'PRON'),\n",

" ('seguravam', 'VERB'),\n",

" ('pela', 'ADP'),\n",

" ('camisa', 'NOUN'),\n",

" ('e', 'CCONJ'),\n",

" (',', 'PUNCT'),\n",

" ('na', 'ADP'),\n",

" ('corrida', 'NOUN'),\n",

" (',', 'PUNCT'),\n",

" ('lançou', 'VERB'),\n",

" ('para', 'ADP'),\n",

" ('Amani', 'PROPN'),\n",

" ('Toomer', 'PROPN'),\n",

" ('.', 'PUNCT'),\n",

" ('O', 'DET'),\n",

" ('wide', 'NOUN'),\n",

" ('receiver', 'X'),\n",

" (',', 'PUNCT'),\n",

" ('bem', 'ADV'),\n",

" ('marcado', 'VERB'),\n",

" (',', 'PUNCT'),\n",

" ('saltou', 'VERB'),\n",

" ('e', 'CCONJ'),\n",

" ('conseguiu', 'VERB'),\n",

" ('a', 'SCONJ'),\n",

" ('fazer', 'VERB'),\n",

" ('recepção', 'NOUN'),\n",

" ('para', 'ADP'),\n",

" ('um', 'DET'),\n",

" ('avanço', 'NOUN'),\n",

" ('de', 'ADP'),\n",

" ('32', 'NUM'),\n",

" ('jardas', 'NOUN'),\n",

" (',', 'PUNCT'),\n",

" ('deixando', 'VERB'),\n",

" ('os', 'DET'),\n",

" ('Giants', 'PROPN'),\n",

" ('na', 'ADP'),\n",

" ('linha', 'NOUN'),\n",

" ('de', 'ADP'),\n",

" ('24', 'NUM'),\n",

" ('de', 'ADP'),\n",

" ('New', 'PROPN'),\n",

" ('England', 'PROPN'),\n",

" ('.', 'PUNCT'),\n",

" ('\\n\\n', 'SPACE'),\n",

" ('Quatro', 'NUM'),\n",

" ('jogadas', 'NOUN'),\n",

" ('depois', 'ADV'),\n",

" (',', 'PUNCT'),\n",

" ('a', 'ADP'),\n",

" ('39', 'NUM'),\n",

" ('segundos', 'NOUN'),\n",

" ('do', 'ADP'),\n",

" ('fim', 'NOUN'),\n",

" (',', 'PUNCT'),\n",

" ('Manning', 'PROPN'),\n",

" ('achou', 'VERB'),\n",

" ('Plaxico', 'PROPN'),\n",

" ('Burress', 'PROPN'),\n",

" ('na', 'ADP'),\n",

" ('end', 'PROPN'),\n",

" ('zone', 'X'),\n",

" ('para', 'SCONJ'),\n",

" ('conseguir', 'VERB'),\n",

" ('o', 'DET'),\n",

" ('touchdown', 'NOUN'),\n",

" ('do', 'ADP'),\n",

" ('título', 'NOUN'),\n",

" ('.', 'PUNCT')]"

]

},

"metadata": {},

"execution\_count": 22

}

]

},

{

"cell\_type": "markdown",

"metadata": {

"id": "SyQrAvKo92a3"

},

"source": [

"\*\*Análise morfosintática: \*.morph\*\*\*"

]

},

{

"cell\_type": "code",

"metadata": {

"colab": {

"base\_uri": "https://localhost:8080/"

},

"id": "Zq\_mdqZyQW-f",

"outputId": "8489031d-9b77-4318-b0d3-2052c4abc373"

},

"source": [

"morfologicas = [(token.orth\_, token.morph) for token in doc]\n",

"morfologicas"

],

"execution\_count": null,

"outputs": [

{

"output\_type": "execute\_result",

"data": {

"text/plain": [

"[('Giants', Gender=Masc|Number=Sing),\n",

" ('batem', Mood=Ind|Number=Plur|Person=3|Tense=Pres|VerbForm=Fin),\n",

" ('os', Definite=Def|Gender=Masc|Number=Plur|PronType=Art),\n",

" ('Patriots', Gender=Masc|Number=Plur),\n",

" ('no', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('Super', Gender=Masc|Number=Sing),\n",

" ('Bowl', Number=Sing),\n",

" ('XLII', Number=Sing),\n",

" ('\\n', ),\n",

" ('Azarões', Number=Sing),\n",

" ('acabam', Mood=Ind|Number=Plur|Person=3|Tense=Pres|VerbForm=Fin),\n",

" ('com', ),\n",

" ('a', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('invencibilidade', Gender=Fem|Number=Sing),\n",

" ('de', ),\n",

" ('New', Gender=Masc|Number=Sing),\n",

" ('England', Number=Sing),\n",

" ('e', ),\n",

" ('ficam', Mood=Ind|Number=Plur|Person=3|Tense=Pres|VerbForm=Fin),\n",

" ('com', ),\n",

" ('o', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('título', Gender=Masc|Number=Sing),\n",

" ('da', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('temporada', Gender=Fem|Number=Sing),\n",

" ('\\n', ),\n",

" ('04/02/2008', NumType=Card),\n",

" ('-', ),\n",

" ('01h07', NumType=Card),\n",

" ('m', NumType=Card),\n",

" ('-', ),\n",

" ('Atualizado', Gender=Masc|Number=Sing|VerbForm=Part),\n",

" ('em', ),\n",

" ('04/02/2008', NumType=Card),\n",

" ('-', ),\n",

" ('09h49', NumType=Card),\n",

" ('m', ),\n",

" ('\\n\\n', ),\n",

" ('Com', ),\n",

" ('um', Definite=Ind|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('passe', Gender=Masc|Number=Sing),\n",

" ('de', ),\n",

" ('Eli', Gender=Masc|Number=Sing),\n",

" ('Manning', Number=Sing),\n",

" ('para', ),\n",

" ('Plaxico', Gender=Masc|Number=Sing),\n",

" ('Burress', Number=Sing),\n",

" ('a', ),\n",

" ('39', NumType=Card),\n",

" ('segundos', Gender=Masc|Number=Plur),\n",

" ('do', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('fim', Gender=Masc|Number=Sing),\n",

" (',', ),\n",

" ('o', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('New', Gender=Masc|Number=Sing),\n",

" ('York', Number=Sing),\n",

" ('Giants', Number=Sing),\n",

" ('anotou', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('o', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('touchdown', Gender=Masc|Number=Sing),\n",

" ('decisivo', Gender=Masc|Number=Sing),\n",

" ('e', ),\n",

" ('derrubou', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('o', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('favorito', Gender=Masc|Number=Sing),\n",

" ('New', Gender=Masc|Number=Sing),\n",

" ('England', Number=Sing),\n",

" ('Patriots', Number=Sing),\n",

" ('por', ),\n",

" ('17', NumType=Card),\n",

" ('a', ),\n",

" ('14', NumType=Card),\n",

" ('neste', Gender=Masc|Number=Sing|PronType=Dem),\n",

" ('domingo', Gender=Masc|Number=Sing),\n",

" (',', ),\n",

" ('em', ),\n",

" ('Glendale', Gender=Masc|Number=Sing),\n",

" (',', ),\n",

" ('no', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('Super', Gender=Masc|Number=Sing),\n",

" ('Bowl', Number=Sing),\n",

" ('XLII', Number=Sing),\n",

" ('.', ),\n",

" ('O', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('resultado', Gender=Masc|Number=Sing),\n",

" (',', ),\n",

" ('uma', NumType=Card),\n",

" ('das', Definite=Def|Gender=Fem|Number=Plur|PronType=Art),\n",

" ('maiores', Gender=Fem|Number=Plur),\n",

" ('zebras', Gender=Fem|Number=Plur),\n",

" ('da', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('história', Gender=Fem|Number=Sing),\n",

" ('do', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('Super', Gender=Masc|Number=Sing),\n",

" ('Bowl', Number=Sing),\n",

" (',', ),\n",

" ('acabou', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('com', ),\n",

" ('a', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('temporada', Gender=Fem|Number=Sing),\n",

" ('perfeita', Gender=Fem|Number=Sing),\n",

" ('de', ),\n",

" ('Tom', Gender=Masc|Number=Sing),\n",

" ('Brady', Number=Sing),\n",

" ('e', ),\n",

" ('companhia', Gender=Fem|Number=Sing),\n",

" (',', ),\n",

" ('que', Gender=Fem|Number=Sing|PronType=Rel),\n",

" ('esperavam', Mood=Ind|Number=Plur|Person=3|Tense=Imp|VerbForm=Fin),\n",

" ('fazer', VerbForm=Inf),\n",

" ('história', Gender=Fem|Number=Sing),\n",

" ('ao', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('levantar', VerbForm=Inf),\n",

" ('o', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('troféu', Gender=Masc|Number=Sing),\n",

" ('da', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('NFL', Gender=Fem|Number=Sing),\n",

" ('sem', ),\n",

" ('sofrer', VerbForm=Inf),\n",

" ('uma', Definite=Ind|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('derrota', Gender=Fem|Number=Sing),\n",

" ('no', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('ano', Gender=Masc|Number=Sing),\n",

" ('.', ),\n",

" ('\\n\\n', ),\n",

" ('A', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('vitória', Gender=Fem|Number=Sing),\n",

" ('dos', Definite=Def|Gender=Masc|Number=Plur|PronType=Art),\n",

" ('Giants', Gender=Masc|Number=Plur),\n",

" (',', ),\n",

" ('porém', ),\n",

" (',', ),\n",

" ('também', ),\n",

" ('ficará', Mood=Ind|Number=Sing|Person=3|Tense=Fut|VerbForm=Fin),\n",

" ('para', ),\n",

" ('a', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('história', Gender=Fem|Number=Sing),\n",

" ('.', ),\n",

" ('Pela', Gender=Masc|Number=Sing),\n",

" ('primeira', ),\n",

" ('vez', Gender=Masc|Number=Sing),\n",

" (',', ),\n",

" ('irmãos', Gender=Masc|Number=Plur),\n",

" ('quarterbacks', Gender=Masc|Number=Plur),\n",

" ('triunfam', Mood=Ind|Number=Sing|Person=3|Tense=Pres|VerbForm=Fin),\n",

" ('no', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('Super', Gender=Masc|Number=Sing),\n",

" ('Bowl', Number=Sing),\n",

" ('em', ),\n",

" ('temporadas', Gender=Fem|Number=Plur),\n",

" ('consecutivas', Gender=Fem|Number=Plur),\n",

" ('.', ),\n",

" ('No', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('ano', Gender=Masc|Number=Sing),\n",

" ('passado', Gender=Masc|Number=Sing),\n",

" (',', ),\n",

" ('Peyton', Gender=Masc|Number=Sing),\n",

" ('Manning', Number=Sing),\n",

" (',', ),\n",

" ('irmão', Gender=Masc|Number=Sing),\n",

" ('de', ),\n",

" ('Eli', Gender=Masc|Number=Sing),\n",

" (',', ),\n",

" ('chegou', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('ao', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('título', Gender=Masc|Number=Sing),\n",

" ('máximo', Gender=Masc|Number=Sing),\n",

" ('da', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('NFL', Gender=Fem|Number=Sing),\n",

" ('pelo', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('Indianapolis', Gender=Masc|Number=Sing),\n",

" ('Colts', Number=Sing),\n",

" ('.', ),\n",

" ('\\n\\n', ),\n",

" ('A', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('partida', Gender=Fem|Number=Sing),\n",

" ('\\n\\n', ),\n",

" ('Os', Definite=Def|Gender=Masc|Number=Plur|PronType=Art),\n",

" ('Giants', Gender=Masc|Number=Plur),\n",

" ('começaram', Mood=Ind|Number=Plur|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('com', ),\n",

" ('a', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('posse', Gender=Fem|Number=Sing),\n",

" ('de', ),\n",

" ('bola', Gender=Fem|Number=Sing),\n",

" (',', ),\n",

" ('e', ),\n",

" ('mostraram', Mood=Ind|Number=Plur|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('logo', ),\n",

" ('que', ),\n",

" ('iriam', Mood=Cnd|Number=Plur|Person=3|VerbForm=Fin),\n",

" ('alongar', VerbForm=Inf),\n",

" ('ao', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('máximo', Gender=Masc|Number=Sing),\n",

" ('suas', Gender=Fem|Number=Plur|PronType=Prs),\n",

" ('posses', Gender=Fem|Number=Plur),\n",

" ('de', ),\n",

" ('bola', Gender=Fem|Number=Sing),\n",

" ('.', ),\n",

" ('Misturando', VerbForm=Ger),\n",

" ('corridas', Gender=Fem|Number=Plur),\n",

" ('com', ),\n",

" ('Brandon', Gender=Masc|Number=Sing),\n",

" ('Jacobs', Number=Sing),\n",

" ('e', ),\n",

" ('passes', Gender=Masc|Number=Plur),\n",

" ('curtos', Gender=Masc|Number=Plur),\n",

" (',', ),\n",

" ('o', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('time', Gender=Masc|Number=Sing),\n",

" ('de', ),\n",

" ('Nova', Gender=Fem|Number=Sing),\n",

" ('York', Number=Sing),\n",

" ('chegou', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('à', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('red', Gender=Masc|Number=Sing),\n",

" ('zone', Gender=Masc|Number=Sing),\n",

" ('logo', ),\n",

" ('na', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('primeira', Gender=Fem|NumType=Ord|Number=Sing),\n",

" ('campanha', Gender=Fem|Number=Sing),\n",

" ('.', ),\n",

" ('O', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('avanço', Gender=Masc|Number=Sing),\n",

" (',', ),\n",

" ('no', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('entanto', Gender=Masc|Number=Sing),\n",

" (',', ),\n",

" ('parou', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('na', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('linha', Gender=Fem|Number=Sing),\n",

" ('de', ),\n",

" ('17', NumType=Card),\n",

" ('jardas', Gender=Fem|Number=Plur),\n",

" ('e', ),\n",

" ('Lawrence', Gender=Masc|Number=Sing),\n",

" ('Tynes', Number=Sing),\n",

" ('converteu', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('o', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('field', Gender=Masc|Number=Sing),\n",

" ('goal', Gender=Masc|Number=Sing),\n",

" ('de', ),\n",

" ('32', NumType=Card),\n",

" ('jardas', Gender=Fem|Number=Plur),\n",

" ('para', ),\n",

" ('abrir', VerbForm=Inf),\n",

" ('o', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('placar', Gender=Masc|Number=Sing),\n",

" ('.', ),\n",

" ('\\n\\n', ),\n",

" ('Eli', Gender=Masc|Number=Sing),\n",

" ('Manning', Number=Sing),\n",

" ('e', ),\n",

" ('companhia', Gender=Fem|Number=Sing),\n",

" ('ficaram', Mood=Ind|Number=Plur|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('9m54s', NumType=Card),\n",

" ('com', ),\n",

" ('a', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('bola', Gender=Fem|Number=Sing),\n",

" (',', ),\n",

" ('mas', ),\n",

" ('o', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('ataque', Gender=Masc|Number=Sing),\n",

" ('dos', Definite=Def|Gender=Masc|Number=Plur|PronType=Art),\n",

" ('Patriots', Gender=Masc|Number=Plur),\n",

" ('não', Polarity=Neg),\n",

" ('entrou', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('em', ),\n",

" ('campo', Gender=Masc|Number=Sing),\n",

" ('frio', Gender=Masc|Number=Sing),\n",

" ('.', ),\n",

" ('Logo', ),\n",

" ('no', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('retorno', Gender=Masc|Number=Sing),\n",

" ('do', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('kickoff', Gender=Masc|Number=Sing),\n",

" (',', ),\n",

" ('o', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('running', Gender=Masc|Number=Sing),\n",

" ('back', Number=Sing),\n",

" ('Laurence', Gender=Masc|Number=Sing),\n",

" ('Maroney', Number=Sing),\n",

" ('avançou', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('43', NumType=Card),\n",

" ('jardas', Gender=Fem|Number=Plur),\n",

" (',', ),\n",

" ('deixando', VerbForm=Ger),\n",

" ('Tom', Gender=Masc|Number=Sing),\n",

" ('Brady', Number=Sing),\n",

" ('em', ),\n",

" ('boa', Gender=Fem|Number=Sing),\n",

" ('posição', Gender=Fem|Number=Sing),\n",

" ('.', ),\n",

" ('Com', ),\n",

" ('passes', Gender=Masc|Number=Plur),\n",

" ('curtos', Gender=Masc|Number=Plur),\n",

" (',', ),\n",

" ('os', Definite=Def|Gender=Masc|Number=Plur|PronType=Art),\n",

" ('Patriots', Gender=Masc|Number=Plur),\n",

" ('chegaram', Mood=Ind|Number=Plur|Person=3|VerbForm=Fin),\n",

" ('à', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('linha', Gender=Fem|Number=Sing),\n",

" ('de', ),\n",

" ('17', NumType=Card),\n",

" ('jardas', Gender=Fem|Number=Plur),\n",

" ('e', ),\n",

" (',', ),\n",

" ('graças', ),\n",

" ('a', ),\n",

" ('uma', Definite=Ind|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('penalidade', Gender=Fem|Number=Sing),\n",

" ('(', ),\n",

" ('interferência', Gender=Fem|Number=Sing),\n",

" ('de', ),\n",

" ('passe', Gender=Masc|Number=Sing),\n",

" (')', ),\n",

" ('do', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('linebacker', Gender=Masc|Number=Sing),\n",

" ('Antonio', Gender=Masc|Number=Sing),\n",

" ('Pierce', Number=Sing),\n",

" (',', ),\n",

" ('alcançaram', Mood=Ind|Number=Plur|Person=3|VerbForm=Fin),\n",

" ('a', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('linha', Gender=Fem|Number=Sing),\n",

" ('de', ),\n",

" ('uma', Definite=Ind|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('jarda', Gender=Fem|Number=Sing),\n",

" ('.', ),\n",

" ('Maroney', Gender=Masc|Number=Sing),\n",

" ('avançou', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('pelo', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('chão', Gender=Masc|Number=Sing),\n",

" ('e', ),\n",

" ('anotou', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('o', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('primeiro', Gender=Masc|NumType=Ord|Number=Sing),\n",

" ('touchdown', Gender=Masc|Number=Sing),\n",

" ('do', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('jogo', Gender=Masc|Number=Sing),\n",

" ('.', ),\n",

" ('\\n\\n', ),\n",

" ('Os', Definite=Def|Gender=Masc|Number=Plur|PronType=Art),\n",

" ('Giants', Gender=Masc|Number=Plur),\n",

" ('pareciam', Mood=Ind|Number=Plur|Person=3|Tense=Imp|VerbForm=Fin),\n",

" ('rumo', ),\n",

" ('à', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('virada', Gender=Fem|Number=Sing),\n",

" ('na', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('campanha', Gender=Fem|Number=Sing),\n",

" ('seguinte', Gender=Fem|Number=Sing),\n",

" ('.', ),\n",

" ('Manning', Gender=Masc|Number=Sing),\n",

" ('achou', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('Amani', Gender=Masc|Number=Sing),\n",

" ('Toomer', Number=Sing),\n",

" ('para', ),\n",

" ('um', Definite=Ind|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('avanço', Gender=Masc|Number=Sing),\n",

" ('de', ),\n",

" ('38', NumType=Card),\n",

" ('jardas', Gender=Fem|Number=Plur),\n",

" (',', ),\n",

" ('e', ),\n",

" ('o', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('time', Gender=Masc|Number=Sing),\n",

" ('de', ),\n",

" ('Nova', Gender=Fem|Number=Sing),\n",

" ('York', Number=Sing),\n",

" ('entrou', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('novamente', ),\n",

" ('na', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('red', Gender=Masc|Number=Sing),\n",

" ('zone', Gender=Masc|Number=Sing),\n",

" ('.', ),\n",

" ('Com', ),\n",

" ('a', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('bola', Gender=Fem|Number=Sing),\n",

" ('na', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('linha', Gender=Fem|Number=Sing),\n",

" ('de', ),\n",

" ('14', NumType=Card),\n",

" ('jardas', Gender=Fem|Number=Plur),\n",

" ('dos', Definite=Def|Gender=Masc|Number=Plur|PronType=Art),\n",

" ('Patriots', Gender=Masc|Number=Plur),\n",

" (',', ),\n",

" ('os', Definite=Def|Gender=Masc|Number=Plur|PronType=Art),\n",

" ('Giants', Gender=Masc|Number=Plur),\n",

" ('sofreram', Mood=Ind|Number=Plur|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('um', Definite=Ind|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('revés', Gender=Masc|Number=Sing),\n",

" ('.', ),\n",

" ('Manning', Gender=Masc|Number=Sing),\n",

" ('passou', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('para', ),\n",

" ('Steve', Gender=Masc|Number=Sing),\n",

" ('Smith', Number=Sing),\n",

" (',', ),\n",

" ('que', Gender=Masc|Number=Sing|PronType=Rel),\n",

" ('soltou', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('a', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('bola', Gender=Fem|Number=Sing),\n",

" ('.', ),\n",

" ('Ellis', Gender=Masc|Number=Sing),\n",

" ('Hobbs', Number=Sing),\n",

" ('aproveitou', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" (',', ),\n",

" ('tomou', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('a', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('posse', Gender=Fem|Number=Sing),\n",

" ('para', ),\n",

" ('os', Definite=Def|Gender=Masc|Number=Plur|PronType=Art),\n",

" ('Patriots', Gender=Masc|Number=Plur),\n",

" (',', ),\n",

" ('e', ),\n",

" ('avançou', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('23', NumType=Card),\n",

" ('jardas', Gender=Fem|Number=Plur),\n",

" ('.', ),\n",

" ('\\n\\n', ),\n",

" ('A', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('defesa', Gender=Fem|Number=Sing),\n",

" ('de', ),\n",

" ('Nova', Gender=Fem|Number=Sing),\n",

" ('York', Number=Sing),\n",

" ('manteve', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('o', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('jogo', Gender=Masc|Number=Sing),\n",

" ('equilibrado', Gender=Masc|Number=Sing),\n",

" ('.', ),\n",

" ('Com', ),\n",

" ('dois', NumType=Card),\n",

" ('sacks', Gender=Masc|Number=Plur),\n",

" ('seguidos', Gender=Masc|Number=Plur|VerbForm=Part),\n",

" (',', ),\n",

" ('os', Definite=Def|Gender=Masc|Number=Plur|PronType=Art),\n",

" ('Giants', Gender=Masc|Number=Plur),\n",

" ('forçaram', Mood=Ind|Number=Plur|Person=3|VerbForm=Fin),\n",

" ('o', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('punt', Gender=Masc|Number=Sing),\n",

" ('e', ),\n",

" ('recuperaram', Mood=Ind|Number=Plur|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('a', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('bola', Gender=Fem|Number=Sing),\n",

" ('.', ),\n",

" ('Mas', ),\n",

" ('a', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('campanha', Gender=Fem|Number=Sing),\n",

" ('seguinte', Gender=Fem|Number=Sing),\n",

" ('provou', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('ser', VerbForm=Inf),\n",

" ('outra', Gender=Fem|Number=Sing|PronType=Ind),\n",

" ('decepção', Gender=Fem|Number=Sing),\n",

" ('para', ),\n",

" ('Nova', Gender=Fem|Number=Sing),\n",

" ('York', Number=Sing),\n",

" ('.', ),\n",

" ('O', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('time', Gender=Masc|Number=Sing),\n",

" ('chegou', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('à', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('linha', Gender=Fem|Number=Sing),\n",

" ('de', ),\n",

" ('25', NumType=Card),\n",

" ('jardas', Gender=Fem|Number=Plur),\n",

" (',', ),\n",

" ('mas', ),\n",

" ('Manning', Gender=Masc|Number=Sing),\n",

" ('sofreu', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('um', Definite=Ind|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('sack', Gender=Masc|Number=Sing),\n",

" ('e', ),\n",

" ('cometeu', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('um', Definite=Ind|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('fumble', Gender=Masc|Number=Sing),\n",

" (',', ),\n",

" ('e', ),\n",

" ('o', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('ataque', Gender=Masc|Number=Sing),\n",

" ('voltou', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('para', ),\n",

" ('a', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('linha', Gender=Fem|Number=Sing),\n",

" ('de', ),\n",

" ('39', NumType=Card),\n",

" ('jardas', Gender=Fem|Number=Plur),\n",

" (',', ),\n",

" ('não', Polarity=Neg),\n",

" ('conseguindo', VerbForm=Ger),\n",

" ('pontuar', VerbForm=Inf),\n",

" ('mais', ),\n",

" ('uma', ),\n",

" ('vez', Gender=Masc|Number=Sing),\n",

" ('.', ),\n",

" ('\\n\\n', ),\n",

" ('Os', Definite=Def|Gender=Masc|Number=Plur|PronType=Art),\n",

" ('Patriots', Gender=Masc|Number=Plur),\n",

" ('tiveram', Mood=Ind|Number=Plur|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('uma', Definite=Ind|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('última', Gender=Fem|NumType=Ord|Number=Sing),\n",

" ('chance', Gender=Fem|Number=Sing),\n",

" ('de', ),\n",

" ('marcar', VerbForm=Inf),\n",

" ('antes', ),\n",

" ('do', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('intervalo', Gender=Masc|Number=Sing),\n",

" (',', ),\n",

" ('mas', ),\n",

" (',', ),\n",

" ('a', ),\n",

" ('22', NumType=Card),\n",

" ('segundos', Gender=Masc|Number=Plur),\n",

" ('do', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('fim', Gender=Masc|Number=Sing),\n",

" ('do', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('segundo', Gender=Masc|NumType=Ord|Number=Sing),\n",

" ('período', Gender=Masc|Number=Sing),\n",

" (',', ),\n",

" ('Brady', Gender=Masc|Number=Sing),\n",

" ('foi', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('novamente', ),\n",

" ('sacado', Gender=Masc|Number=Sing|VerbForm=Part),\n",

" ('.', ),\n",

" ('Desta', ),\n",

" ('vez', Gender=Fem|Number=Sing),\n",

" (',', ),\n",

" ('ele', Case=Nom|Gender=Masc|Number=Sing|Person=3|PronType=Prs),\n",

" ('cometeu', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('o', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('fumble', Gender=Masc|Number=Sing),\n",

" ('e', ),\n",

" ('os', Definite=Def|Gender=Masc|Number=Plur|PronType=Art),\n",

" ('Giants', Gender=Masc|Number=Plur),\n",

" ('tomaram', Mood=Ind|Number=Plur|Person=3|VerbForm=Fin),\n",

" ('a', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('posse', Gender=Fem|Number=Sing),\n",

" ('de', ),\n",

" ('bola', Gender=Fem|Number=Sing),\n",

" ('.', ),\n",

" ('Manning', Gender=Masc|Number=Sing),\n",

" ('tentou', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('um', Definite=Ind|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('passe', Gender=Masc|Number=Sing),\n",

" ('longo', Gender=Masc|Number=Sing),\n",

" (',', ),\n",

" ('de', ),\n",

" ('50', NumType=Card),\n",

" ('jardas', Gender=Fem|Number=Plur),\n",

" (',', ),\n",

" ('nos', Definite=Def|Gender=Masc|Number=Plur|PronType=Art),\n",

" ('últimos', Gender=Masc|NumType=Ord|Number=Plur),\n",

" ('segundos', Gender=Masc|Number=Plur),\n",

" (',', ),\n",

" ('mas', ),\n",

" ('não', Polarity=Neg),\n",

" ('teve', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('sucesso', Gender=Masc|Number=Sing),\n",

" ('.', ),\n",

" ('\\n\\n', ),\n",

" ('O', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('jogo', Gender=Masc|Number=Sing),\n",

" ('continuou', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('amarrado', Gender=Masc|Number=Sing|VerbForm=Part),\n",

" ('no', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('terceiro', Gender=Masc|NumType=Ord|Number=Sing),\n",

" ('quarto', Gender=Masc|Number=Sing),\n",

" (',', ),\n",

" ('com', ),\n",

" ('as', Definite=Def|Gender=Fem|Number=Plur|PronType=Art),\n",

" ('defesas', Gender=Fem|Number=Plur),\n",

" ('levando', VerbForm=Ger),\n",

" ('a', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('melhor', ),\n",

" ('sobre', ),\n",

" ('os', Definite=Def|Gender=Masc|Number=Plur|PronType=Art),\n",

" ('ataques', Gender=Masc|Number=Plur),\n",

" ('.', ),\n",

" ('A', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('única', Gender=Fem|Number=Sing),\n",

" ('chance', Gender=Fem|Number=Sing),\n",

" ('de', ),\n",

" ('pontuar', VerbForm=Inf),\n",

" ('do', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('período', Gender=Masc|Number=Sing),\n",

" ('foi', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('dos', Definite=Def|Gender=Masc|Number=Plur|PronType=Art),\n",

" ('Patriots', Gender=Masc|Number=Plur),\n",

" (',', ),\n",

" ('que', Gender=Masc|Number=Plur|PronType=Rel),\n",

" ('chegaram', Mood=Ind|Number=Plur|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('à', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('linha', Gender=Fem|Number=Sing),\n",

" ('de', ),\n",

" ('31', NumType=Card),\n",

" ('jardas', Gender=Fem|Number=Plur),\n",

" ('dos', Definite=Def|Gender=Masc|Number=Plur|PronType=Art),\n",

" ('Giants', Gender=Masc|Number=Sing),\n",

" ('.', ),\n",

" ('O', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('técnico', Gender=Masc|Number=Sing),\n",

" ('Bill', Gender=Masc|Number=Sing),\n",

" ('Bellichick', Number=Sing),\n",

" (',', ),\n",

" ('porém', ),\n",

" (',', ),\n",

" ('optou', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('por', ),\n",

" ('uma', Definite=Ind|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('quarta', Gender=Fem|NumType=Ord|Number=Sing),\n",

" ('descida', Gender=Fem|Number=Sing),\n",

" ('em', ),\n",

" ('vez', Gender=Fem|Number=Sing),\n",

" ('de', ),\n",

" ('um', Definite=Ind|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('field', Gender=Masc|Number=Sing),\n",

" ('goal', Number=Sing),\n",

" ('.', ),\n",

" ('Brady', Gender=Masc|Number=Sing),\n",

" ('tentou', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('um', Definite=Ind|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('passe', Gender=Masc|Number=Sing),\n",

" ('para', ),\n",

" ('Jabar', Gender=Masc|Number=Sing),\n",

" ('Gaffney', Number=Sing),\n",

" (',', ),\n",

" ('mas', ),\n",

" ('não', Polarity=Neg),\n",

" ('conseguiu', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('completar', VerbForm=Inf),\n",

" ('.', ),\n",

" ('\\n\\n', ),\n",

" ('O', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('último', Gender=Masc|NumType=Ord|Number=Sing),\n",

" ('período', Gender=Masc|Number=Sing),\n",

" ('começou', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('arrasador', Gender=Masc|Number=Sing),\n",

" ('para', ),\n",

" ('os', Definite=Def|Gender=Masc|Number=Plur|PronType=Art),\n",

" ('Giants', Gender=Masc|Number=Plur),\n",

" ('.', ),\n",

" ('na', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('primeira', Gender=Fem|NumType=Ord|Number=Sing),\n",

" ('jogada', Gender=Fem|Number=Sing),\n",

" (',', ),\n",

" ('Manning', Gender=Masc|Number=Sing),\n",

" ('achou', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('o', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('tight', Gender=Masc|Number=Sing),\n",

" ('end', ),\n",

" ('Kevin', Gender=Masc|Number=Sing),\n",

" ('Boss', Number=Sing),\n",

" (',', ),\n",

" ('para', ),\n",

" ('um', Definite=Ind|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('incrível', Gender=Masc|Number=Sing),\n",

" ('avanço', Gender=Masc|Number=Sing),\n",

" ('de', ),\n",

" ('45', NumType=Card),\n",

" ('jardas', Gender=Fem|Number=Plur),\n",

" (',', ),\n",

" ('que', Gender=Masc|Number=Sing|PronType=Rel),\n",

" ('deixou', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('o', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('time', Gender=Masc|Number=Sing),\n",

" ('na', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('linha', Gender=Fem|Number=Sing),\n",

" ('de', ),\n",

" ('35', NumType=Card),\n",

" ('dos', Definite=Def|Gender=Masc|Number=Plur|PronType=Art),\n",

" ('Patriots', Gender=Masc|Number=Plur),\n",

" ('.', ),\n",

" ('Outro', Gender=Masc|Number=Sing|PronType=Ind),\n",

" ('lançamento', Gender=Masc|Number=Sing),\n",

" (',', ),\n",

" ('desta', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('vez', Gender=Fem|Number=Sing),\n",

" ('para', ),\n",

" ('Steve', Gender=Masc|Number=Sing),\n",

" ('Smith', Number=Sing),\n",

" (',', ),\n",

" ('marcou', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('o', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('avanço', Gender=Masc|Number=Sing),\n",

" ('até', ),\n",

" ('a', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('linha', Gender=Fem|Number=Sing),\n",

" ('de', ),\n",

" ('12', NumType=Card),\n",

" ('jardas', Gender=Fem|Number=Plur),\n",

" ('.', ),\n",

" ('Duas', NumType=Card),\n",

" ('jogadas', Gender=Fem|Number=Plur),\n",

" ('depois', ),\n",

" (',', ),\n",

" ('David', Gender=Masc|Number=Sing),\n",

" ('Tyree', Number=Sing),\n",

" ('pegou', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('um', Definite=Ind|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('passe', Gender=Masc|Number=Sing),\n",

" ('de', ),\n",

" ('cinco', NumType=Card),\n",

" ('jardas', Gender=Fem|Number=Plur),\n",

" ('na', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('end', ),\n",

" ('zone', ),\n",

" ('para', ),\n",

" ('anotar', VerbForm=Inf),\n",

" ('o', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('touchdown', Gender=Masc|Number=Sing),\n",

" ('e', ),\n",

" ('virar', VerbForm=Inf),\n",

" ('o', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('jogo', Gender=Masc|Number=Sing),\n",

" ('.', ),\n",

" ('\\n\\n', ),\n",

" ('Na', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('hora', Gender=Fem|Number=Sing),\n",

" ('da', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('decisão', Gender=Fem|Number=Sing),\n",

" (',', ),\n",

" ('o', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('ataque', Gender=Masc|Number=Sing),\n",

" ('dos', Definite=Def|Gender=Masc|Number=Plur|PronType=Art),\n",

" ('Patriots', Number=Sing),\n",

" ('voltou', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('a', ),\n",

" ('funcionar', VerbForm=Inf),\n",

" ('.', ),\n",

" ('Com', ),\n",

" ('uma', Definite=Ind|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('série', Gender=Fem|Number=Sing),\n",

" ('de', ),\n",

" ('passes', Gender=Masc|Number=Plur),\n",

" ('curtos', Gender=Masc|Number=Plur),\n",

" ('e', ),\n",

" ('variados', Gender=Masc|Number=Plur),\n",

" (',', ),\n",

" ('Brady', Gender=Masc|Number=Sing),\n",

" ('achou', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('Wes', Gender=Masc|Number=Sing),\n",

" ('Welker', Number=Sing),\n",

" (',', ),\n",

" ('Randy', Gender=Masc|Number=Sing),\n",

" ('Moss', Number=Sing),\n",

" ('e', ),\n",

" ('Kevin', Gender=Masc|Number=Sing),\n",

" ('Faulk', Number=Sing),\n",

" ('seguidas', Gender=Fem|Number=Plur|VerbForm=Part),\n",

" ('vezes', Gender=Fem|Number=Plur),\n",

" ('até', ),\n",

" ('chegar', VerbForm=Inf),\n",

" ('à', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('red', Gender=Masc|Number=Sing),\n",

" ('zone', Gender=Masc|Number=Sing),\n",

" ('.', ),\n",

" ('A', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('2m45s', Gender=Fem|Number=Sing),\n",

" ('do', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('fim', Gender=Masc|Number=Sing),\n",

" (',', ),\n",

" ('o', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('quarterback', Gender=Masc|Number=Sing),\n",

" ('conectou', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('mais', ),\n",

" ('uma', ),\n",

" ('vez', Gender=Fem|Number=Sing),\n",

" ('com', ),\n",

" ('Moss', Gender=Masc|Number=Sing),\n",

" (',', ),\n",

" ('que', Gender=Masc|Number=Sing|PronType=Rel),\n",

" ('se', Case=Acc|Gender=Masc|Number=Sing|Person=3|PronType=Prs),\n",

" ('desmarcou', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('e', ),\n",

" ('ficou', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('livre', Gender=Fem|Number=Sing),\n",

" ('na', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('lateral', Gender=Fem|Number=Sing),\n",

" ('direita', Gender=Fem|Number=Sing),\n",

" ('da', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('end', ),\n",

" ('zone', ),\n",

" ('.', ),\n",

" ('\\n\\n', ),\n",

" ('Quando', ),\n",

" ('os', Definite=Def|Gender=Masc|Number=Plur|PronType=Art),\n",

" ('fãs', Gender=Masc|Number=Plur),\n",

" ('de', ),\n",

" ('New', Gender=Masc|Number=Sing),\n",

" ('England', Number=Sing),\n",

" ('já', ),\n",

" ('comemoravam', Mood=Ind|Number=Plur|Person=3|Tense=Imp|VerbForm=Fin),\n",

" ('a', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('vitória', Gender=Fem|Number=Sing),\n",

" (',', ),\n",

" ('o', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('inesperado', Gender=Masc|Number=Sing),\n",

" ('aconteceu', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('.', ),\n",

" ('Em', ),\n",

" ('uma', Definite=Ind|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('jogada', Gender=Fem|Number=Sing),\n",

" ('incrível', Gender=Fem|Number=Sing),\n",

" (',', ),\n",

" ('Eli', Gender=Masc|Number=Sing),\n",

" ('Manning', Number=Sing),\n",

" ('se', Case=Acc|Gender=Masc|Number=Sing|Person=3|PronType=Prs),\n",

" ('soltou', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('de', ),\n",

" ('dois', NumType=Card),\n",

" ('marcadores', Gender=Masc|Number=Plur),\n",

" ('que', Gender=Masc|Number=Plur|PronType=Rel),\n",

" ('o', Case=Acc|Gender=Masc|Number=Sing|Person=3|PronType=Prs),\n",

" ('seguravam', Mood=Ind|Number=Plur|Person=3|Tense=Imp|VerbForm=Fin),\n",

" ('pela', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('camisa', Gender=Fem|Number=Sing),\n",

" ('e', ),\n",

" (',', ),\n",

" ('na', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('corrida', Gender=Fem|Number=Sing),\n",

" (',', ),\n",

" ('lançou', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('para', ),\n",

" ('Amani', Gender=Masc|Number=Sing),\n",

" ('Toomer', Number=Sing),\n",

" ('.', ),\n",

" ('O', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('wide', Gender=Masc|Number=Sing),\n",

" ('receiver', ),\n",

" (',', ),\n",

" ('bem', ),\n",

" ('marcado', Gender=Masc|Number=Sing|VerbForm=Part),\n",

" (',', ),\n",

" ('saltou', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('e', ),\n",

" ('conseguiu', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('a', ),\n",

" ('fazer', VerbForm=Inf),\n",

" ('recepção', Gender=Fem|Number=Sing),\n",

" ('para', ),\n",

" ('um', Definite=Ind|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('avanço', Gender=Masc|Number=Sing),\n",

" ('de', ),\n",

" ('32', NumType=Card),\n",

" ('jardas', Gender=Fem|Number=Plur),\n",

" (',', ),\n",

" ('deixando', VerbForm=Ger),\n",

" ('os', Definite=Def|Gender=Masc|Number=Plur|PronType=Art),\n",

" ('Giants', Gender=Masc|Number=Sing),\n",

" ('na', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('linha', Gender=Fem|Number=Sing),\n",

" ('de', ),\n",

" ('24', NumType=Card),\n",

" ('de', ),\n",

" ('New', Gender=Masc|Number=Sing),\n",

" ('England', Number=Sing),\n",

" ('.', ),\n",

" ('\\n\\n', ),\n",

" ('Quatro', NumType=Card),\n",

" ('jogadas', Gender=Fem|Number=Plur),\n",

" ('depois', ),\n",

" (',', ),\n",

" ('a', ),\n",

" ('39', NumType=Card),\n",

" ('segundos', Gender=Masc|Number=Plur),\n",

" ('do', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('fim', Gender=Masc|Number=Sing),\n",

" (',', ),\n",

" ('Manning', Gender=Masc|Number=Sing),\n",

" ('achou', Mood=Ind|Number=Sing|Person=3|Tense=Past|VerbForm=Fin),\n",

" ('Plaxico', Gender=Masc|Number=Sing),\n",

" ('Burress', Number=Sing),\n",

" ('na', Definite=Def|Gender=Fem|Number=Sing|PronType=Art),\n",

" ('end', Number=Sing),\n",

" ('zone', ),\n",

" ('para', ),\n",

" ('conseguir', VerbForm=Inf),\n",

" ('o', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('touchdown', Gender=Masc|Number=Sing),\n",

" ('do', Definite=Def|Gender=Masc|Number=Sing|PronType=Art),\n",

" ('título', Gender=Masc|Number=Sing),\n",

" ('.', )]"

]

},

"metadata": {},

"execution\_count": 23

}

]

},

{

"cell\_type": "markdown",

"metadata": {

"id": "Cy719af698\_l"

},

"source": [

"\*\*Reconhecimento de Entidades Nomeadas\*\*"

]

},

{

"cell\_type": "code",

"metadata": {

"colab": {

"base\_uri": "https://localhost:8080/"

},

"id": "YJVbQJL8SKr1",

"outputId": "ee4d004e-3c87-4947-daab-624acd903b9b"

},

"source": [

"entidades\_nomeadas = list(doc.ents)\n",

"print(entidades\_nomeadas)\n",

"\n",

"detalhes\_entidades = [(entidade, entidade.label\_) for entidade in doc.ents]\n",

"detalhes\_entidades"

],

"execution\_count": null,

"outputs": [

{

"output\_type": "stream",

"name": "stdout",

"text": [

"[Giants, Patriots, Super Bowl XLII\n",

", Azarões, New England, Eli Manning, Plaxico Burress, New York Giants, New England Patriots, Glendale, Super Bowl XLII, Super Bowl, Tom Brady, NFL, Giants, Super Bowl, Peyton Manning, Eli, NFL, Indianapolis Colts, Giants, Brandon Jacobs, Nova York, red zone, Lawrence Tynes, Eli Manning, Patriots, Laurence Maroney, Tom Brady, Patriots, Antonio Pierce, Maroney, Giants, Manning, Amani Toomer, Nova York, red zone, Patriots, Giants, Manning, Steve Smith, Ellis Hobbs, Patriots, Nova York, Giants, Nova York, Manning, Patriots, Brady, Giants, Manning, Patriots, Giants, Bill Bellichick, Brady, Jabar Gaffney, Giants, Manning, Kevin Boss, Patriots, Steve Smith, David Tyree, end zone, Patriots, Brady, Wes Welker, Randy Moss, Kevin Faulk, red zone, Moss, end zone, New England, Eli Manning, Amani Toomer, Giants, New England, Manning, Plaxico Burress, end zone]\n"

]

},

{

"output\_type": "execute\_result",

"data": {

"text/plain": [

"[(Giants, 'ORG'),\n",

" (Patriots, 'MISC'),\n",

" (Super Bowl XLII, 'ORG'),\n",

" (Azarões, 'LOC'),\n",

" (New England, 'LOC'),\n",

" (Eli Manning, 'PER'),\n",

" (Plaxico Burress, 'PER'),\n",

" (New York Giants, 'ORG'),\n",

" (New England Patriots, 'MISC'),\n",

" (Glendale, 'LOC'),\n",

" (Super Bowl XLII, 'ORG'),\n",

" (Super Bowl, 'ORG'),\n",

" (Tom Brady, 'PER'),\n",

" (NFL, 'ORG'),\n",

" (Giants, 'ORG'),\n",

" (Super Bowl, 'ORG'),\n",

" (Peyton Manning, 'PER'),\n",

" (Eli, 'PER'),\n",

" (NFL, 'ORG'),\n",

" (Indianapolis Colts, 'ORG'),\n",

" (Giants, 'ORG'),\n",

" (Brandon Jacobs, 'PER'),\n",

" (Nova York, 'LOC'),\n",

" (red zone, 'ORG'),\n",

" (Lawrence Tynes, 'PER'),\n",

" (Eli Manning, 'PER'),\n",

" (Patriots, 'MISC'),\n",

" (Laurence Maroney, 'PER'),\n",

" (Tom Brady, 'PER'),\n",

" (Patriots, 'MISC'),\n",

" (Antonio Pierce, 'PER'),\n",

" (Maroney, 'PER'),\n",

" (Giants, 'ORG'),\n",

" (Manning, 'PER'),\n",

" (Amani Toomer, 'PER'),\n",

" (Nova York, 'LOC'),\n",

" (red zone, 'ORG'),\n",

" (Patriots, 'MISC'),\n",

" (Giants, 'ORG'),\n",

" (Manning, 'PER'),\n",

" (Steve Smith, 'PER'),\n",

" (Ellis Hobbs, 'PER'),\n",

" (Patriots, 'MISC'),\n",

" (Nova York, 'LOC'),\n",

" (Giants, 'ORG'),\n",

" (Nova York, 'LOC'),\n",

" (Manning, 'PER'),\n",

" (Patriots, 'MISC'),\n",

" (Brady, 'PER'),\n",

" (Giants, 'ORG'),\n",

" (Manning, 'PER'),\n",

" (Patriots, 'MISC'),\n",

" (Giants, 'ORG'),\n",

" (Bill Bellichick, 'PER'),\n",

" (Brady, 'PER'),\n",

" (Jabar Gaffney, 'PER'),\n",

" (Giants, 'ORG'),\n",

" (Manning, 'PER'),\n",

" (Kevin Boss, 'PER'),\n",

" (Patriots, 'MISC'),\n",

" (Steve Smith, 'PER'),\n",

" (David Tyree, 'PER'),\n",

" (end zone, 'ORG'),\n",

" (Patriots, 'MISC'),\n",

" (Brady, 'PER'),\n",

" (Wes Welker, 'PER'),\n",

" (Randy Moss, 'PER'),\n",

" (Kevin Faulk, 'PER'),\n",

" (red zone, 'ORG'),\n",

" (Moss, 'PER'),\n",

" (end zone, 'ORG'),\n",

" (New England, 'LOC'),\n",

" (Eli Manning, 'PER'),\n",

" (Amani Toomer, 'PER'),\n",

" (Giants, 'ORG'),\n",

" (New England, 'LOC'),\n",

" (Manning, 'PER'),\n",

" (Plaxico Burress, 'PER'),\n",

" (end zone, 'ORG')]"

]

},

"metadata": {},

"execution\_count": 26

}

]

},

{

"cell\_type": "markdown",

"metadata": {

"id": "uUVfKsRe-BfW"

},

"source": [

"\*\*Vamos visualizar as entidades!\*\*"

]

},

{

"cell\_type": "code",

"metadata": {

"id": "SNzLf69UUTgr"

},

"source": [

"html = spacy.displacy.render(doc, style=\"ent\")\n",

"output\_path = open('entidades\_nomadas.html', 'w', encoding=\"utf-8\")\n",

"output\_path.write(html)\n",

"output\_path.close()"

],

"execution\_count": null,

"outputs": []

},

{

"cell\_type": "markdown",

"metadata": {

"id": "p9K86DrX-FiW"

},

"source": [

"\*\*Análise sintática de dependências\*\*"

]

},

{

"cell\_type": "code",

"metadata": {

"colab": {

"base\_uri": "https://localhost:8080/"

},

"id": "LHbJhaafVISC",

"outputId": "fb8b5ac1-2bd5-4451-b7b8-6e9a4177635f"

},

"source": [

"sintaxe = [(token.orth\_, token.dep\_) for token in doc]\n",

"print(sintaxe)"

],

"execution\_count": null,

"outputs": [

{

"output\_type": "stream",

"name": "stdout",

"text": [

"[('Giants', 'nsubj'), ('batem', 'ROOT'), ('os', 'det'), ('Patriots', 'obj'), ('no', 'case'), ('Super', 'obl'), ('Bowl', 'flat:name'), ('XLII', 'flat:name'), ('\\n', 'dep'), ('Azarões', 'flat:name'), ('acabam', 'conj'), ('com', 'case'), ('a', 'det'), ('invencibilidade', 'obl'), ('de', 'case'), ('New', 'nmod'), ('England', 'flat:name'), ('e', 'cc'), ('ficam', 'conj'), ('com', 'case'), ('o', 'det'), ('título', 'obl'), ('da', 'case'), ('temporada', 'nmod'), ('\\n', 'aux:pass'), ('04/02/2008', 'obl'), ('-', 'punct'), ('01h07', 'obl'), ('m', 'obj'), ('-', 'punct'), ('Atualizado', 'acl'), ('em', 'case'), ('04/02/2008', 'obl'), ('-', 'punct'), ('09h49', 'nsubj'), ('m', 'punct'), ('\\n\\n', 'parataxis'), ('Com', 'case'), ('um', 'det'), ('passe', 'nmod'), ('de', 'case'), ('Eli', 'nmod'), ('Manning', 'flat:name'), ('para', 'case'), ('Plaxico', 'nmod'), ('Burress', 'flat:name'), ('a', 'case'), ('39', 'nummod'), ('segundos', 'nmod'), ('do', 'case'), ('fim', 'nmod'), (',', 'punct'), ('o', 'det'), ('New', 'nsubj'), ('York', 'flat:name'), ('Giants', 'flat:name'), ('anotou', 'ROOT'), ('o', 'det'), ('touchdown', 'obj'), ('decisivo', 'amod'), ('e', 'cc'), ('derrubou', 'conj'), ('o', 'det'), ('favorito', 'obj'), ('New', 'appos'), ('England', 'flat:name'), ('Patriots', 'flat:name'), ('por', 'case'), ('17', 'obl'), ('a', 'case'), ('14', 'nmod'), ('neste', 'case'), ('domingo', 'nmod'), (',', 'punct'), ('em', 'case'), ('Glendale', 'obl'), (',', 'punct'), ('no', 'case'), ('Super', 'obl'), ('Bowl', 'flat:name'), ('XLII', 'flat:name'), ('.', 'punct'), ('O', 'det'), ('resultado', 'nsubj'), (',', 'punct'), ('uma', 'appos'), ('das', 'case'), ('maiores', 'amod'), ('zebras', 'nmod'), ('da', 'case'), ('história', 'nmod'), ('do', 'case'), ('Super', 'nmod'), ('Bowl', 'flat:name'), (',', 'punct'), ('acabou', 'ROOT'), ('com', 'case'), ('a', 'det'), ('temporada', 'obl'), ('perfeita', 'amod'), ('de', 'case'), ('Tom', 'nmod'), ('Brady', 'flat:name'), ('e', 'cc'), ('companhia', 'conj'), (',', 'punct'), ('que', 'nsubj'), ('esperavam', 'acl:relcl'), ('fazer', 'xcomp'), ('história', 'obj'), ('ao', 'mark'), ('levantar', 'advcl'), ('o', 'det'), ('troféu', 'obj'), ('da', 'case'), ('NFL', 'nmod'), ('sem', 'mark'), ('sofrer', 'advcl'), ('uma', 'det'), ('derrota', 'obj'), ('no', 'case'), ('ano', 'nmod'), ('.', 'punct'), ('\\n\\n', 'advmod'), ('A', 'det'), ('vitória', 'nsubj'), ('dos', 'case'), ('Giants', 'nmod'), (',', 'punct'), ('porém', 'cc'), (',', 'punct'), ('também', 'advmod'), ('ficará', 'ROOT'), ('para', 'case'), ('a', 'det'), ('história', 'obl'), ('.', 'punct'), ('Pela', 'obl'), ('primeira', 'case'), ('vez', 'nmod'), (',', 'punct'), ('irmãos', 'nsubj'), ('quarterbacks', 'appos'), ('triunfam', 'ROOT'), ('no', 'case'), ('Super', 'obl'), ('Bowl', 'flat:name'), ('em', 'case'), ('temporadas', 'obl'), ('consecutivas', 'amod'), ('.', 'punct'), ('No', 'case'), ('ano', 'obl'), ('passado', 'amod'), (',', 'punct'), ('Peyton', 'nsubj'), ('Manning', 'flat:name'), (',', 'punct'), ('irmão', 'appos'), ('de', 'case'), ('Eli', 'nmod'), (',', 'punct'), ('chegou', 'ROOT'), ('ao', 'case'), ('título', 'obl'), ('máximo', 'amod'), ('da', 'case'), ('NFL', 'nmod'), ('pelo', 'case'), ('Indianapolis', 'nmod'), ('Colts', 'flat:name'), ('.', 'punct'), ('\\n\\n', 'ROOT'), ('A', 'det'), ('partida', 'nsubj'), ('\\n\\n', 'advmod'), ('Os', 'det'), ('Giants', 'nsubj'), ('começaram', 'ROOT'), ('com', 'case'), ('a', 'det'), ('posse', 'obl'), ('de', 'case'), ('bola', 'nmod'), (',', 'punct'), ('e', 'cc'), ('mostraram', 'conj'), ('logo', 'advmod'), ('que', 'mark'), ('iriam', 'aux'), ('alongar', 'ccomp'), ('ao', 'case'), ('máximo', 'obl'), ('suas', 'det'), ('posses', 'obj'), ('de', 'case'), ('bola', 'nmod'), ('.', 'punct'), ('Misturando', 'advcl'), ('corridas', 'obj'), ('com', 'case'), ('Brandon', 'nmod'), ('Jacobs', 'flat:name'), ('e', 'cc'), ('passes', 'conj'), ('curtos', 'amod'), (',', 'punct'), ('o', 'det'), ('time', 'nsubj'), ('de', 'case'), ('Nova', 'nmod'), ('York', 'flat:name'), ('chegou', 'ROOT'), ('à', 'case'), ('red', 'amod'), ('zone', 'obl'), ('logo', 'advmod'), ('na', 'case'), ('primeira', 'amod'), ('campanha', 'obl'), ('.', 'punct'), ('O', 'det'), ('avanço', 'nsubj'), (',', 'punct'), ('no', 'cc'), ('entanto', 'fixed'), (',', 'punct'), ('parou', 'ROOT'), ('na', 'case'), ('linha', 'obl'), ('de', 'case'), ('17', 'nummod'), ('jardas', 'nmod'), ('e', 'cc'), ('Lawrence', 'conj'), ('Tynes', 'flat:name'), ('converteu', 'conj'), ('o', 'det'), ('field', 'obj'), ('goal', 'flat:name'), ('de', 'case'), ('32', 'nummod'), ('jardas', 'nmod'), ('para', 'mark'), ('abrir', 'advcl'), ('o', 'det'), ('placar', 'obj'), ('.', 'punct'), ('\\n\\n', 'advmod'), ('Eli', 'nsubj'), ('Manning', 'flat:name'), ('e', 'cc'), ('companhia', 'conj'), ('ficaram', 'ROOT'), ('9m54s', 'obj'), ('com', 'case'), ('a', 'det'), ('bola', 'nmod'), (',', 'punct'), ('mas', 'cc'), ('o', 'det'), ('ataque', 'nsubj'), ('dos', 'case'), ('Patriots', 'nmod'), ('não', 'advmod'), ('entrou', 'conj'), ('em', 'case'), ('campo', 'obl'), ('frio', 'amod'), ('.', 'punct'), ('Logo', 'advmod'), ('no', 'case'), ('retorno', 'obl'), ('do', 'case'), ('kickoff', 'nmod'), (',', 'punct'), ('o', 'det'), ('running', 'ROOT'), ('back', 'amod'), ('Laurence', 'nsubj'), ('Maroney', 'flat:name'), ('avançou', 'ROOT'), ('43', 'nummod'), ('jardas', 'obj'), (',', 'punct'), ('deixando', 'advcl'), ('Tom', 'obj'), ('Brady', 'flat:name'), ('em', 'case'), ('boa', 'amod'), ('posição', 'obl'), ('.', 'punct'), ('Com', 'case'), ('passes', 'obl'), ('curtos', 'amod'), (',', 'punct'), ('os', 'det'), ('Patriots', 'nsubj'), ('chegaram', 'ROOT'), ('à', 'case'), ('linha', 'obl'), ('de', 'case'), ('17', 'nummod'), ('jardas', 'nmod'), ('e', 'cc'), (',', 'punct'), ('graças', 'case'), ('a', 'det'), ('uma', 'det'), ('penalidade', 'obl'), ('(', 'punct'), ('interferência', 'appos'), ('de', 'case'), ('passe', 'nmod'), (')', 'punct'), ('do', 'case'), ('linebacker', 'nmod'), ('Antonio', 'appos'), ('Pierce', 'flat:name'), (',', 'punct'), ('alcançaram', 'conj'), ('a', 'det'), ('linha', 'obj'), ('de', 'case'), ('uma', 'det'), ('jarda', 'nmod'), ('.', 'punct'), ('Maroney', 'nsubj'), ('avançou', 'ROOT'), ('pelo', 'case'), ('chão', 'obl'), ('e', 'cc'), ('anotou', 'conj'), ('o', 'det'), ('primeiro', 'amod'), ('touchdown', 'obj'), ('do', 'case'), ('jogo', 'nmod'), ('.', 'punct'), ('\\n\\n', 'ROOT'), ('Os', 'det'), ('Giants', 'nsubj'), ('pareciam', 'ROOT'), ('rumo', 'advmod'), ('à', 'case'), ('virada', 'obl'), ('na', 'case'), ('campanha', 'nmod'), ('seguinte', 'amod'), ('.', 'punct'), ('Manning', 'nsubj'), ('achou', 'ROOT'), ('Amani', 'obj'), ('Toomer', 'flat:name'), ('para', 'case'), ('um', 'det'), ('avanço', 'obl'), ('de', 'case'), ('38', 'nummod'), ('jardas', 'nmod'), (',', 'punct'), ('e', 'cc'), ('o', 'det'), ('time', 'conj'), ('de', 'case'), ('Nova', 'nmod'), ('York', 'flat:name'), ('entrou', 'conj'), ('novamente', 'advmod'), ('na', 'case'), ('red', 'amod'), ('zone', 'obl'), ('.', 'punct'), ('Com', 'case'), ('a', 'det'), ('bola', 'obl'), ('na', 'case'), ('linha', 'nmod'), ('de', 'case'), ('14', 'nummod'), ('jardas', 'nmod'), ('dos', 'case'), ('Patriots', 'nmod'), (',', 'punct'), ('os', 'det'), ('Giants', 'nsubj'), ('sofreram', 'ROOT'), ('um', 'det'), ('revés', 'obj'), ('.', 'punct'), ('Manning', 'nsubj'), ('passou', 'ROOT'), ('para', 'case'), ('Steve', 'obl'), ('Smith', 'flat:name'), (',', 'punct'), ('que', 'nsubj'), ('soltou', 'acl:relcl'), ('a', 'det'), ('bola', 'obj'), ('.', 'punct'), ('Ellis', 'nsubj'), ('Hobbs', 'flat:name'), ('aproveitou', 'ROOT'), (',', 'punct'), ('tomou', 'conj'), ('a', 'det'), ('posse', 'obj'), ('para', 'case'), ('os', 'det'), ('Patriots', 'nmod'), (',', 'punct'), ('e', 'cc'), ('avançou', 'conj'), ('23', 'nummod'), ('jardas', 'obj'), ('.', 'punct'), ('\\n\\n', 'advmod'), ('A', 'det'), ('defesa', 'nsubj'), ('de', 'case'), ('Nova', 'nmod'), ('York', 'flat:name'), ('manteve', 'ROOT'), ('o', 'det'), ('jogo', 'obj'), ('equilibrado', 'amod'), ('.', 'punct'), ('Com', 'case'), ('dois', 'nummod'), ('sacks', 'obl'), ('seguidos', 'acl'), (',', 'punct'), ('os', 'det'), ('Giants', 'nsubj'), ('forçaram', 'ROOT'), ('o', 'det'), ('punt', 'obj'), ('e', 'cc'), ('recuperaram', 'conj'), ('a', 'det'), ('bola', 'obj'), ('.', 'punct'), ('Mas', 'cc'), ('a', 'det'), ('campanha', 'nsubj'), ('seguinte', 'amod'), ('provou', 'ROOT'), ('ser', 'cop'), ('outra', 'det'), ('decepção', 'xcomp'), ('para', 'case'), ('Nova', 'nmod'), ('York', 'flat:name'), ('.', 'punct'), ('O', 'det'), ('time', 'nsubj'), ('chegou', 'ROOT'), ('à', 'case'), ('linha', 'obl'), ('de', 'case'), ('25', 'nummod'), ('jardas', 'nmod'), (',', 'punct'), ('mas', 'cc'), ('Manning', 'nsubj'), ('sofreu', 'conj'), ('um', 'det'), ('sack', 'obj'), ('e', 'cc'), ('cometeu', 'conj'), ('um', 'det'), ('fumble', 'obj'), (',', 'punct'), ('e', 'cc'), ('o', 'det'), ('ataque', 'nsubj'), ('voltou', 'conj'), ('para', 'case'), ('a', 'det'), ('linha', 'obl'), ('de', 'case'), ('39', 'nummod'), ('jardas', 'nmod'), (',', 'punct'), ('não', 'advmod'), ('conseguindo', 'advcl'), ('pontuar', 'xcomp'), ('mais', 'obl'), ('uma', 'case'), ('vez', 'obl'), ('.', 'punct'), ('\\n\\n', 'ROOT'), ('Os', 'det'), ('Patriots', 'nsubj'), ('tiveram', 'ROOT'), ('uma', 'det'), ('última', 'amod'), ('chance', 'obj'), ('de', 'mark'), ('marcar', 'acl'), ('antes', 'advmod'), ('do', 'case'), ('intervalo', 'obl'), (',', 'punct'), ('mas', 'cc'), (',', 'punct'), ('a', 'case'), ('22', 'nummod'), ('segundos', 'obl'), ('do', 'case'), ('fim', 'nmod'), ('do', 'case'), ('segundo', 'amod'), ('período', 'nmod'), (',', 'punct'), ('Brady', 'nsubj'), ('foi', 'aux:pass'), ('novamente', 'advmod'), ('sacado', 'conj'), ('.', 'punct'), ('Desta', 'case'), ('vez', 'obl'), (',', 'punct'), ('ele', 'nsubj'), ('cometeu', 'ROOT'), ('o', 'det'), ('fumble', 'obj'), ('e', 'cc'), ('os', 'det'), ('Giants', 'nsubj'), ('tomaram', 'conj'), ('a', 'det'), ('posse', 'obj'), ('de', 'case'), ('bola', 'nmod'), ('.', 'punct'), ('Manning', 'nsubj'), ('tentou', 'ROOT'), ('um', 'det'), ('passe', 'obj'), ('longo', 'amod'), (',', 'punct'), ('de', 'case'), ('50', 'nummod'), ('jardas', 'obl'), (',', 'punct'), ('nos', 'case'), ('últimos', 'amod'), ('segundos', 'obl'), (',', 'punct'), ('mas', 'cc'), ('não', 'advmod'), ('teve', 'conj'), ('sucesso', 'obj'), ('.', 'punct'), ('\\n\\n', 'advmod'), ('O', 'det'), ('jogo', 'nsubj'), ('continuou', 'ROOT'), ('amarrado', 'xcomp'), ('no', 'case'), ('terceiro', 'amod'), ('quarto', 'obl'), (',', 'punct'), ('com', 'case'), ('as', 'det'), ('defesas', 'obl'), ('levando', 'acl'), ('a', 'det'), ('melhor', 'obj'), ('sobre', 'case'), ('os', 'det'), ('ataques', 'obl'), ('.', 'punct'), ('A', 'det'), ('única', 'amod'), ('chance', 'nsubj'), ('de', 'mark'), ('pontuar', 'acl'), ('do', 'case'), ('período', 'obl'), ('foi', 'cop'), ('dos', 'case'), ('Patriots', 'ROOT'), (',', 'punct'), ('que', 'nsubj'), ('chegaram', 'acl:relcl'), ('à', 'case'), ('linha', 'obl'), ('de', 'case'), ('31', 'nummod'), ('jardas', 'nmod'), ('dos', 'case'), ('Giants', 'nmod'), ('.', 'punct'), ('O', 'det'), ('técnico', 'nsubj'), ('Bill', 'appos'), ('Bellichick', 'flat:name'), (',', 'punct'), ('porém', 'cc'), (',', 'punct'), ('optou', 'ROOT'), ('por', 'case'), ('uma', 'det'), ('quarta', 'amod'), ('descida', 'obl'), ('em', 'case'), ('vez', 'obl'), ('de', 'case'), ('um', 'det'), ('field', 'obj'), ('goal', 'amod'), ('.', 'punct'), ('Brady', 'nsubj'), ('tentou', 'ROOT'), ('um', 'det'), ('passe', 'obj'), ('para', 'case'), ('Jabar', 'obl'), ('Gaffney', 'flat:name'), (',', 'punct'), ('mas', 'cc'), ('não', 'advmod'), ('conseguiu', 'conj'), ('completar', 'xcomp'), ('.', 'punct'), ('\\n\\n', 'advmod'), ('O', 'det'), ('último', 'amod'), ('período', 'nsubj'), ('começou', 'ROOT'), ('arrasador', 'xcomp'), ('para', 'case'), ('os', 'det'), ('Giants', 'obl'), ('.', 'punct'), ('na', 'case'), ('primeira', 'amod'), ('jogada', 'obl'), (',', 'punct'), ('Manning', 'nsubj'), ('achou', 'ROOT'), ('o', 'det'), ('tight', 'obj'), ('end', 'flat:name'), ('Kevin', 'appos'), ('Boss', 'flat:name'), (',', 'punct'), ('para', 'case'), ('um', 'det'), ('incrível', 'amod'), ('avanço', 'obl'), ('de', 'case'), ('45', 'nummod'), ('jardas', 'nmod'), (',', 'punct'), ('que', 'nsubj'), ('deixou', 'acl:relcl'), ('o', 'det'), ('time', 'obj'), ('na', 'case'), ('linha', 'obl'), ('de', 'case'), ('35', 'nmod'), ('dos', 'case'), ('Patriots', 'nmod'), ('.', 'punct'), ('Outro', 'det'), ('lançamento', 'nsubj'), (',', 'punct'), ('desta', 'case'), ('vez', 'nmod'), ('para', 'case'), ('Steve', 'nmod'), ('Smith', 'flat:name'), (',', 'punct'), ('marcou', 'ROOT'), ('o', 'det'), ('avanço', 'obj'), ('até', 'case'), ('a', 'det'), ('linha', 'obl'), ('de', 'case'), ('12', 'nummod'), ('jardas', 'nmod'), ('.', 'punct'), ('Duas', 'nummod'), ('jogadas', 'obl'), ('depois', 'advmod'), (',', 'punct'), ('David', 'nsubj'), ('Tyree', 'flat:name'), ('pegou', 'ROOT'), ('um', 'det'), ('passe', 'obj'), ('de', 'case'), ('cinco', 'nummod'), ('jardas', 'nmod'), ('na', 'case'), ('end', 'nmod'), ('zone', 'flat:name'), ('para', 'mark'), ('anotar', 'advcl'), ('o', 'det'), ('touchdown', 'obj'), ('e', 'cc'), ('virar', 'conj'), ('o', 'det'), ('jogo', 'obj'), ('.', 'punct'), ('\\n\\n', 'advmod'), ('Na', 'case'), ('hora', 'obl'), ('da', 'case'), ('decisão', 'nmod'), (',', 'punct'), ('o', 'det'), ('ataque', 'nsubj'), ('dos', 'case'), ('Patriots', 'nmod'), ('voltou', 'ROOT'), ('a', 'mark'), ('funcionar', 'xcomp'), ('.', 'punct'), ('Com', 'case'), ('uma', 'det'), ('série', 'obl'), ('de', 'case'), ('passes', 'nmod'), ('curtos', 'amod'), ('e', 'cc'), ('variados', 'conj'), (',', 'punct'), ('Brady', 'nsubj'), ('achou', 'ROOT'), ('Wes', 'obj'), ('Welker', 'flat:name'), (',', 'punct'), ('Randy', 'dep'), ('Moss', 'flat:name'), ('e', 'cc'), ('Kevin', 'conj'), ('Faulk', 'flat:name'), ('seguidas', 'xcomp'), ('vezes', 'obj'), ('até', 'mark'), ('chegar', 'advcl'), ('à', 'case'), ('red', 'amod'), ('zone', 'obl'), ('.', 'punct'), ('A', 'case'), ('2m45s', 'obl'), ('do', 'case'), ('fim', 'nmod'), (',', 'punct'), ('o', 'det'), ('quarterback', 'nsubj'), ('conectou', 'ROOT'), ('mais', 'advmod'), ('uma', 'case'), ('vez', 'obl'), ('com', 'case'), ('Moss', 'obl'), (',', 'punct'), ('que', 'nsubj'), ('se', 'expl'), ('desmarcou', 'acl:relcl'), ('e', 'cc'), ('ficou', 'conj'), ('livre', 'xcomp'), ('na', 'case'), ('lateral', 'obl'), ('direita', 'amod'), ('da', 'case'), ('end', 'nmod'), ('zone', 'flat:name'), ('.', 'punct'), ('\\n\\n', 'advmod'), ('Quando', 'mark'), ('os', 'det'), ('fãs', 'nsubj'), ('de', 'case'), ('New', 'nmod'), ('England', 'flat:name'), ('já', 'advmod'), ('comemoravam', 'advcl'), ('a', 'det'), ('vitória', 'obj'), (',', 'punct'), ('o', 'det'), ('inesperado', 'nsubj'), ('aconteceu', 'ROOT'), ('.', 'punct'), ('Em', 'case'), ('uma', 'det'), ('jogada', 'obl'), ('incrível', 'amod'), (',', 'punct'), ('Eli', 'nsubj'), ('Manning', 'flat:name'), ('se', 'expl'), ('soltou', 'ROOT'), ('de', 'case'), ('dois', 'nummod'), ('marcadores', 'obj'), ('que', 'nsubj'), ('o', 'obj'), ('seguravam', 'acl:relcl'), ('pela', 'case'), ('camisa', 'obl'), ('e', 'cc'), (',', 'punct'), ('na', 'case'), ('corrida', 'obl'), (',', 'punct'), ('lançou', 'conj'), ('para', 'case'), ('Amani', 'obl'), ('Toomer', 'flat:name'), ('.', 'punct'), ('O', 'det'), ('wide', 'nsubj'), ('receiver', 'flat:name'), (',', 'punct'), ('bem', 'advmod'), ('marcado', 'acl'), (',', 'punct'), ('saltou', 'ROOT'), ('e', 'cc'), ('conseguiu', 'conj'), ('a', 'mark'), ('fazer', 'xcomp'), ('recepção', 'obj'), ('para', 'case'), ('um', 'det'), ('avanço', 'nmod'), ('de', 'case'), ('32', 'nummod'), ('jardas', 'nmod'), (',', 'punct'), ('deixando', 'advcl'), ('os', 'det'), ('Giants', 'obj'), ('na', 'case'), ('linha', 'obl'), ('de', 'case'), ('24', 'nmod'), ('de', 'case'), ('New', 'nmod'), ('England', 'flat:name'), ('.', 'punct'), ('\\n\\n', 'advmod'), ('Quatro', 'nummod'), ('jogadas', 'obl'), ('depois', 'advmod'), (',', 'punct'), ('a', 'case'), ('39', 'nummod'), ('segundos', 'obl'), ('do', 'case'), ('fim', 'nmod'), (',', 'punct'), ('Manning', 'nsubj'), ('achou', 'ROOT'), ('Plaxico', 'obj'), ('Burress', 'flat:name'), ('na', 'case'), ('end', 'obl'), ('zone', 'flat:name'), ('para', 'mark'), ('conseguir', 'advcl'), ('o', 'det'), ('touchdown', 'obj'), ('do', 'case'), ('título', 'nmod'), ('.', 'punct')]\n"

]

}

]

},

{

"cell\_type": "markdown",

"metadata": {

"id": "pP7o939i-IWt"

},

"source": [

"\*\*Vamos visualizar a árvore de dependências\*\*"

]

},

{

"cell\_type": "code",

"metadata": {

"id": "1QvmBR5MVYg3"

},

"source": [

"visualizar\_sintaxe = spacy.displacy.render(doc, style='dep')\n",

"output\_path = open('analise\_dependencia.svg', 'w', encoding=\"utf-8\")\n",

"output\_path.write(visualizar\_sintaxe)\n",

"output\_path.close()"

],

"execution\_count": null,

"outputs": []

}

]

}