

desafioPalavrasRecorrentes

May 22, 2022

```
[29]: # Pegando as palavras e filtrando
import re

with open('texto37.txt', encoding='utf-8') as f:
    texto37 = f.read()

with open('texto5.txt', encoding='utf-8') as f:
    texto5 = f.read()

with open('stopwords2.txt', encoding='utf-8') as f:
    stopwords2 = f.read()

texto37 = re.sub(f'[^\\w\\s\\-\\']|\\n|\\d', '', texto37)
texto37 = re.split(' ', texto37)
texto5 = re.sub(f'[^\\w\\s\\-\\']|\\n|\\d', '', texto5)
texto5 = re.split(' ', texto5)

stopwords2 = re.split(f'\\n', stopwords2)

texto37 = list(filter(lambda palavra: palavra not in stopwords2, texto37))
texto5 = list(filter(lambda palavra: palavra not in stopwords2, texto5))
```

1 Lista texto37

```
[30]: print(texto37)
```

```
['A', 'shepherd', 'faithful', 'dog', 'called', 'Sultan', 'grown', 'lost',
'teeth', 'And', 'day', 'shepherd', 'wife', 'standing', 'house', 'shepherd',
'shoot', 'Sultan', 'tomorrow', 'morning', 'But', 'wife', 'Pray', 'poor',
'faithful', 'creature', 'live', 'served', 'great', 'years', 'livelihood',
'rest', 'days', 'But', 'shepherd', 'tooth', 'head', 'thieves', 'dont', 'care',
'served', 'earn', 'livelihood', 'tomorrow', 'day', 'depend', 'itPoor', 'Sultan',
'lying', 'close', 'heard', 'shepherd', 'wife', 'frightened', 'tomorrow', 'day',
'evening', 'good', 'friend', 'wolf', 'lived', 'wood', 'told', 'sorrows',
'master', 'meant', 'kill', 'morning', 'Make', 'easy', 'wolf', 'good', 'advice',
'Your', 'master', 'morning', 'early', 'wife', 'field', 'child', 'lay', 'hedge',
'shade', 'work', 'Now', 'lie', 'close', 'child', 'pretend', 'watching', 'wood',
```

'fast', 'drop', 'carry', 'saved', 'child', 'thankful', 'care', 'long', 'live',
 'The', 'dog', 'plan', 'managed', 'The', 'wolf', 'child', 'shepherd', 'wife',
 'screamed', 'Sultan', 'overtook', 'carried', 'poor', 'master', 'mistress',
 'Then', 'shepherd', 'patted', 'head', 'Old', 'Sultan', 'saved', 'child', 'wolf',
 'live', 'care', 'plenty', 'eat', 'Wife', 'good', 'dinner', 'cushion', 'sleep',
 'long', 'lives', 'So', 'time', 'Sultan', 'forSoon', 'wolf', 'wished', 'joy',
 'Now', 'good', 'fellow', 'tales', 'turn', 'head', 'taste', 'shepherds', 'fine',
 'fat', 'sheep', 'No', 'Sultan', 'true', 'master', 'However', 'wolf', 'thought',
 'joke', 'night', 'dainty', 'morsel', 'But', 'Sultan', 'told', 'master', 'wolf',
 'meant', 'laid', 'wait', 'barn', 'door', 'wolf', 'busy', 'good', 'fat', 'sheep',
 'stout', 'cudgel', 'laid', 'combed', 'locks', 'finelyThen', 'wolf', 'angry',
 'called', 'Sultan', 'rogue', 'swore', 'revenge', 'So', 'morning', 'wolf',
 'boar', 'challenge', 'Sultan', 'wood', 'fight', 'matter', 'Now', 'Sultan',
 'shepherds', 'three-legged', 'cat', 'poor', 'limped', 'trouble', 'stuck',
 'tail', 'straight', 'airThe', 'wolf', 'wild', 'boar', 'ground', 'espied',
 'enemies', 'coming', 'cats', 'long', 'tail', 'standing', 'straight', 'air',
 'thought', 'carrying', 'sword', 'Sultan', 'fight', 'time', 'limped', 'thought',
 'picking', 'stone', 'throw', 'fighting', 'boar', 'lay', 'bush', 'wolf',
 'jumped', 'tree', 'Sultan', 'cat', 'looked', 'wondered', 'The', 'boar',
 'hidden', 'ears', 'stuck', 'bush', 'shook', 'cat', 'thinking', 'mouse',
 'sprang', 'bit', 'scratched', 'boar', 'jumped', 'grunted', 'roaring', 'Look',
 'tree', 'sits', 'blame', 'So', 'looked', 'espied', 'wolf', 'sitting',
 'branches', 'called', 'cowardly', 'rascal', 'suffer', 'heartily', 'ashamed',
 'promised', 'good', 'friends', 'Sultan']

2 Lista texto5

```
[31]: print(texto5)
```

['SummaryMalaria', 'tropical', 'disease', 'commonly', 'imported', 'UK', '',
 'cases', 'reported', 'year', '', 'deaths', 'Approximately', 'three-quarters',
 'reported', 'malaria', 'cases', 'UK', 'caused', 'Plasmodium', 'falciparum',
 'capable', 'invading', 'high', 'proportion', 'red', 'blood', 'cells', 'rapidly',
 'leading', 'severe', 'life-threatening', 'multi-organ', 'disease', 'Most', 'non-
 falciparum', 'malaria', 'cases', 'caused', 'Plasmodium', 'vivax', 'cases',
 'caused', 'species', 'Plasmodium', 'Plasmodium', 'ovale', 'Plasmodium',
 'malariae', 'Mixed', 'infections', '', 'species', 'parasite', 'occur',
 'commonly', 'involve', 'P', 'falciparum', 'attendant', 'risks', 'severe',
 'malariaManagement', 'malaria', 'depends', 'awareness', 'diagnosis',
 'performing', 'correct', 'diagnostic', 'tests', 'diagnosis', 'excluded', '',
 'blood', 'specimens', 'examined', 'experienced', 'microscopist', 'There',
 'typical', 'clinical', 'features', 'malaria', 'fever', 'invariably', 'The',
 'optimum', 'diagnostic', 'procedure', 'examination', 'blood', 'films', 'expert',
 'detect', 'speciate', 'malarial', 'parasites', 'P', 'falciparum', 'malaria',
 'diagnosed', 'accurately', 'rapid', 'diagnostic', 'tests', 'RDTs', 'detect',
 'plasmodial', 'antigens', 'enzymes', 'RDTs', 'Plasmodium', 'species',
 'reliableThe', 'treatment', 'choice', 'non-falciparum', 'malaria', '-day',

'oral', 'chloroquine', 'limited', 'proportion', 'P', 'vivax', 'strains',
 'gained', 'resistance', 'Dormant', 'parasites', 'hypnozoites', 'persist',
 'liver', 'treatment', 'P', 'vivax', 'P', 'ovale', 'infection', 'effective',
 'drug', 'eradication', 'hypnozoites', 'primaquine', 'This', 'avoided',
 'caution', 'expert', 'supervision', 'patients', 'glucose--phosphate',
 'dehydrogenase', 'deficiency', 'GPD', 'severe', 'haemolysis', 'Uncomplicated',
 'P', 'falciparum', 'malaria', 'treated', 'orally', 'quinine', 'atovaquone',
 'proguanil', 'Malarone', 'co-artemether', 'Riamet', 'quinine', 'highly',
 'effective', 'tolerated', 'prolonged', 'dosage', 'supplemented', 'additional',
 'treatment', 'oral', 'doxycycline', 'ALL', 'patients', 'treated', 'P',
 'falciparum', 'malaria', 'admitted', 'hospital', '', 'patients', 'deteriorate',
 'suddenly', 'early', 'treatmentSevere', 'falciparum', 'malaria', 'infections',
 'complicated', 'high', 'parasite', 'count', '', 'red', 'blood', 'cells',
 'parasitized', 'treated', 'intravenous', 'therapy', 'patient', 'continue',
 'oral', 'treatment', 'In', 'UK', 'treatment', 'choice', 'severe', 'complicated',
 'malaria', 'infusion', 'intravenous', 'quinine', 'This', 'exacerbate',
 'hypoglycaemia', 'occur', 'malaria', 'patients', 'treated', 'intravenous',
 'quinine', 'require', 'careful', 'monitoring', 'Intravenous', 'artesunate',
 'reduces', 'high', 'parasite', 'loads', 'rapidly', 'quinine', 'effective',
 'treating', 'severe', 'malaria', 'selected', 'situations', 'It', 'patients',
 'contra-indications', 'quinine', 'Intravenous', 'artesunate', 'unlicensed',
 'EU', 'Assistance', 'obtaining', 'artesunate', 'sought', 'specialist',
 'tropical', 'medicine', 'centres', 'consultation', 'named', 'patients',
 'Patients', 'severe', 'complicated', 'malaria', 'managed', 'high', 'dependency',
 'intensive', 'care', 'environment', 'They', 'require', 'haemodynamic',
 'support', 'management', 'acute', 'respiratory', 'distress', 'syndrome',
 'disseminated', 'intravascular', 'coagulation', 'renal', 'impairmentfailure',
 'seizures', 'severe', 'intercurrent', 'infections', 'including', 'gram-
 negative', 'bacteraemia', 'septicaemia', 'Falciparum', 'malaria', 'pregnancy', 'severe',
 'complicated', 'placenta', 'high', 'levels', 'parasites', 'Stillbirth', 'early',
 'delivery', 'occur', 'diagnosis', 'difficult', 'parasites', 'concentrated',
 'placenta', 'scanty', 'blood', 'The', 'treatment', 'choice', 'falciparum',
 'malaria', 'pregnancy', 'quinine', 'doxycycline', 'contraindicated',
 'pregnancy', 'clindamycin', 'substituted', 'equally', 'effective', 'Primaquine',
 'eradication', 'P', 'vivax', 'P', 'ovale', 'hypnozoites', 'contraindicated',
 'pregnancy', 'treatment', 'infections', 'pregnant', 'woman', 'weekly',
 'chloroquine', 'prophylaxis', 'delivery', 'hypnozoite', 'eradication',
 'consideredChildren', 'over-represented', 'incidence', 'malaria', 'UK',
 'completely', 'susceptible', 'UK-born', 'children', 'accompany', 'overseas-
 born', 'parents', 'visits', 'family', 'friends', 'endemic', 'areas', 'Malaria',
 'children', 'adults', 'misleading', 'symptoms', 'gastrointestinal', 'features',
 'sore', 'throat', 'respiratory', 'complaints', 'diagnosis', 'sought',
 'feverish', 'sick', 'child', 'visited', 'malaria-endemic', 'areas', 'Children',
 'treated', 'antimalarial', 'regimens', 'effective', 'adults', 'dosage',
 'adjustment', 'Doxycycline', 'quinine', 'children', '', 'years', 'doxycycline',
 'contraindicated', 'age', 'group', 'clindamycin', 'substituted', 'doxycycline',
 'pyrimethaminesulfadoxine', 'Fansidar', 'effective', 'substitute', 'An',
 'acute', 'attack', 'malaria', 'confer', 'protection', 'future', 'attacks',

'individuals', 'malaria', 'effective', 'anti-mosquito', 'precautions',
 'chemoprophylaxis', 'future', 'visits', 'endemic', 'areasPrevious', 'article',
 'issueNext', 'article', 'issueKeywordsMalariaSymptomsTreatmentPlasmodium',
 'falciparumRapid', 'diagnostic', 'testsHypnozoitesUncomplicated',
 'malariaSevere', 'malariaPrimaquineChloroquineAtovaquoneproguanilArtesunateQuini
 neDoxycyclineClindamycinPyrimethaminesulfadoxineCo-artemExchange',
 'transfusionGPD', 'deficiencyPregnancyChildrenChemprophylaxisBackgroundMalaria',
 'remains', 'common', 'imported', 'infections', 'United', 'Kingdom', 'UK',
 'Between', '', '', 'malaria', 'cases', 'reported', 'year', 'UK', 'informal',
 'reviews', 'reporting', 'represent', 'cases', 'occur', 'personal',
 'communication', 'P', 'Chiodini', 'Malaria', 'Reference', 'Laboratory',
 'Approximately', 'three-quarters', 'reported', 'infections', 'Plasmodium',
 'falciparum', '', '', 'deaths', 'annually', 'Children', '', 'years', 'account',
 '', 'cases', 'Two-thirds', 'cases', 'occur', 'people', 'African', 'South',
 'Asia', 'ethnic', 'origin', 'cases', 'occur', 'visiting', 'friends', 'family',
 'endemic', 'areas', 'Most', 'patients', 'falciparum', 'malaria', 'acquire',
 'infection', 'Africa', 'West', 'Africa', 'commonest', 'geographical', 'source',
 'Most', 'Plasmodium', 'vivax', 'infections', 'acquired', 'South', 'AsiaThis',
 'document', 'offers', 'guidance', 'management', 'uncomplicated', 'complicated',
 'malaria', 'UK', 'It', 'complements', 'existing', 'Health', 'Protection',
 'Agency', 'HPA', 'guidelines', 'prevention', 'malaria', 'UK', 'travellers',
 'httpwwwhpaorgukinfectionstopics_azmalarialoguidelineshtm', 'It', 'based',
 'review', 'evidence', 'HPA', 'Advisory', 'Committee', 'Malaria', 'Prevention',
 'input', 'experts', 'expert', 'bodies', 'incorporates', 'international',
 'guidance', 'including', 'WHO', 'guidelines', 'treatment', 'definitions',
 'severe', 'malaria', '', 'These', 'guidelines', 'UK', 'perspective',
 'management', 'Other', 'countries', 'including', 'USA', 'Canada', 'published',
 'guidelines', '', 'These', 'guidelines', 'developed', 'non-endemic', 'area',
 'depend', 'heavily', 'evidence', 'studies', 'endemic', 'areas', 'Although',
 'levels', 'evidence', 'included', 'document', 'future', 'versions', 'include',
 'evidence', 'base', 'treatment', 'non-endemic', 'areas', 'expands', 'The',
 'guidelines', 'complemented', 'detailed', 'individual', 'drug', 'regimens',
 'contra-indications', 'British', 'National', 'Formulary', 'A', 'short',
 'summary', 'key', 'points', 'initial', 'assessment', 'management', 'emergency',
 'departments', 'British', 'Infection', 'Society', 'website',
 'wwwbritishinfectionsocietyorgAssessment', 'patient', 'suspected', 'malaria',
 'Box', 'History', 'examinationThe', 'crucial', 'issue', 'management', 'malaria',
 'consideration', 'possibility', 'diagnosis', 'Malaria', 'suspected', 'fever',
 'history', 'fever', 'returned', 'visited', 'malaria-endemic', 'area',
 'prophylaxis', 'The', 'minimum', 'incubation', 'period', 'naturally',
 'acquired', 'infection', '', 'days', 'Most', 'patients', 'falciparum',
 'infection', 'month', 'months', 'exposure', '', 'months', 'exposure', 'Vivax',
 'ovale', 'infections', 'commonly', '', 'months', 'exposure', 'presentation',
 'delayed', 'years', 'There', 'specific', 'symptoms', 'malaria', 'patients',
 'complain', 'fever', 'headache', 'general', 'malaise', 'Gastrointestinal',
 'disturbances', 'jaundice', 'respiratory', 'symptoms', 'occasionally', 'occur',
 'responsible', 'misdiagnosis', 'Most', 'missed', 'malaria', 'infections',
 'erroneously', 'diagnosed', 'non-specific', 'viral', 'infections', 'influenza',

'gastroenteritis', 'hepatitis', 'Children', 'adults', 'complain', 'chills',
 'arthralgiamyalgia', 'headaches', 'non-specific', 'symptoms', 'fever',
 'lethargy', 'malaise', 'somnia', 'gastrointestinal', 'symptoms', 'nausea',
 'abdominal', 'pain', 'vomiting', 'diarrhoea', 'commonThe', 'physical',
 'examination', 'patients', 'uncomplicated', 'malaria', 'unremarkable', 'fever',
 'invariably', 'In', 'patients', 'specific', 'fever', 'pattern', 'Children',
 'hepatomegaly', 'splenomegaly', 'somnia', 'adults', 'If', 'diagnosis',
 'falciparum', 'malaria', 'delayed', 'severely', 'ill', 'patients', 'jaundice',
 'confusion', 'seizuresInvestigationIf', 'malaria', 'suspected', 'blood', 'test',
 'malaria', 'delay', 'mandatory', 'If', 'potential', 'delay', 'patient',
 'referred', 'hospital', 'testing', 'Results', 'communicated', 'day', 'positive',
 'tests', 'telephoned', 'requesting', 'doctor', 'practicable', 'ideally', '',
 'test', 'reaching', 'laboratory', 'The', 'test', 'examination', 'blood',
 'slides', 'microscopy', 'This', 'highly', 'sensitive', 'specific', 'expert',
 'hands', 'However', 'lack', 'expertise', 'UK', 'labs', 'hours', 'rapid',
 'diagnostic', 'tests', 'RDTs', 'based', 'detection', 'parasite', 'antigens',
 'enzymes', 'commonly', 'addition', 'blood', 'slides', 'Although', 'sensitive',
 'good', 'quality', 'blood', 'films', 'easier', 'non-expert', 'detect',
 'falciparum', 'infections', 'RDTs', 'specific', 'sensitive', 'detection', 'non-
 falciparum', 'infections', 'RDTs', 'addition', 'replacement', 'blood', 'films',
 'patients', 'suspected', 'malaria', 'blood', 'films', 'prepared', 'examined',
 'If', 'falciparum', 'malaria', 'diagnosed', 'percentage', 'red', 'blood',
 'cells', 'parasitized', 'estimatedIf', 'clinical', 'suspicion', 'malaria',
 'initial', 'blood', 'films', 'negative', 'repeat', 'films', 'examined', '', '',
 'Thrombocytopenia', 'highly', 'suggestive', 'malaria', 'non-immune', 'adults',
 'children', 'falciparum', 'non-falciparum', 'malaria', '', 'Malaria', '',
 'negative', 'slides', 'examined', 'competent', 'microscopist', 'Empirical',
 'therapy', 'malaria', 'patient', 'convincing', 'exposure', 'history',
 'demonstrates', 'features', 'severe', 'malaria', 'expert', 'advice', 'In',
 'pregnancy', 'films', 'negative', 'presence', 'parasites', 'placenta', 'Expert',
 'advice', 'sought', 'malaria', 'suspectedCases', 'malaria', 'notified',
 'public', 'health', 'authorities', 'slides', 'blood', 'aliquot', 'Malaria',
 'Reference', 'Laboratory', 'confirmation', 'performed', 'free', 'charge', 'If',
 'malaria', 'diagnosed', 'returned', 'traveller', 'members', 'family',
 'travelling', 'group', 'warned', 'shared', 'exposure', 'risk', 'seek',
 'medical', 'attention', 'develop', 'symptoms', 'Box', 'Box', 'Important',
 'considerations', 'assessment', 'patient', 'malariaMalaria', 'medical',
 'emergency', 'patients', 'suspected', 'malaria', 'evaluated',
 'immediatelySymptoms', 'malaria', 'non-specific', 'feversweatschills',
 'malaise', 'myalgia', 'headache', 'diarrhoea', 'coughFalciparum', 'malaria',
 'occur', '', 'months', 'return', 'endemic', 'area', 'The', 'incubation',
 'period', 'malaria', '', 'daysA', 'careful', 'exposure', 'history', 'country',
 'area', 'travel', 'including', 'stopovers', 'returnConsider', 'malaria',
 'prophylaxis', 'drug', 'dose', 'adherence', 'premature', 'cessation',
 'prophylaxis', 'adherence', 'exclude', 'malariaConsider', 'travel-related',
 'infections', 'typhoid', 'hepatitis', 'dengue', 'avian', 'influenza', 'SARS',
 'HIV', 'meningitisencephalitis', 'viral', 'haemorrhagic', 'fevers', 'VHFThree',
 'negative', 'slides', 'period', '', 'exclude', 'malariaChemoprophylaxis',

'stopped', 'admission', 'hospital', 'interfere', 'parasite',
 'detectionAssessment', 'general', 'management', 'assessment', 'confirmed',
 'malariaNon-falciparum', 'malariaMalaria', 'managed', 'consultation',
 'experienced', 'managing', 'diseaseThe', 'distinction', 'falciparum', 'malaria',
 'species', 'malaria', 'Malaria', 'caused', 'P', 'ovale', 'P', 'vivax', 'P',
 'malariae', 'rarely', 'life-threatening', 'disease', 'exceptional',
 'circumstances', 'managed', 'outpatient', 'basis', 'patient', 'co-morbidities',
 'Estimation', 'haemoglobin', 'concentration', 'malaria', 'caused', 'vivax',
 'ovale', 'glucose--phosphate', 'dehydrogenase', 'GPD', 'activity', 'measured',
 'primaquine', 'therapy', 'treatment', 'acute', 'disease', 'eliminate',
 'hypnozoites', 'dormant', 'forms', 'liver', 'Primaquine', 'haemolysis',
 'patients', 'GPD', 'deficiency', 'Patients', 'mixed', 'infection', 'includes',
 'falciparum', 'parasites', 'infection', 'speciated', 'treated', 'falciparum',
 'infection', 'instanceFalciparum', 'malariaAll', 'patients', 'falciparum',
 'malaria', 'admitted', 'hospital', 'initially', 'Although', 'specialist',
 'units', 'UK', 'treat', 'patients', 'falciparum', 'malaria', 'outpatients',
 'Europe', 'advocated', 'safety', 'outpatient', 'treatment', '', 'patients',
 'expected', 'semi-immune', 'deteriorate', 'rapidly', 'require', 'intensive',
 'care', 'treatment', '', 'Children', 'falciparum', 'malaria', 'admitted',
 'hospital', '', 'possibility', 'rapid', 'progression', 'poor', 'tolerance',
 'oral', 'therapies', 'cases', 'complicated', 'vomiting', '', 'All', 'patients',
 'observed', 'closely', 'categories', 'pregnant', 'women', 'infants', 'elderly',
 'develop', 'severe', 'disease', 'deteriorate', 'rapidly', '', 'The',
 'management', 'patients', 'falciparum', 'malaria', 'severe', 'discussed',
 'specialistPatients', 'falciparum', 'malaria', 'mixed', 'infection', 'includes',
 'falciparum', 'parasites', 'divided', 'uncomplicated', 'severe', 'complicated',
 'disease', 'Box', '', 'Assessment', 'patient', 'include', 'careful', 'clinical',
 'evaluation', 'review', 'investigations', 'features', 'severe', 'malaria',
 'detailed', 'A', 'blood', 'count', 'urea', 'electrolytes', 'liver', 'function',
 'tests', 'blood', 'glucose', 'routinely', 'In', 'ill', 'patients', 'blood',
 'gases', 'blood', 'culture', 'lactate', 'clotting', 'studies', 'performed',
 'Urine', 'dipstick', 'culture', 'stool', 'culture', 'chest', 'X-ray', 'Lumbar',
 'puncture', 'exclude', 'meningitis', 'considered', 'febrile', 'patients',
 'impaired', 'consciousness', 'repeated', 'seizuresBox', 'Major', 'features',
 'severe', 'complicated', 'falciparum', 'malaria', 'adultsImpaired',
 'consciousness', 'seizuresRenal', 'impairment', 'oliguria', '', '', 'mlkg',
 'bodyweight', 'hour', 'creatinine', '', 'mollAcidosis', 'pH', '',
 'Hypoglycaemia', '', 'mmollPulmonary', 'oedema', 'acute', 'respiratory',
 'distress', 'syndrome', 'ARDSHaemoglobin', '', '', 'gdLSpontaneous',
 'bleedingdisseminated', 'intravascular', 'coagulationShock', 'algid', 'malaria',
 '', 'BP', '', '', 'mmHgHaemoglobinuria', 'GPD', 'deficiencyThe', 'initial',
 'parasite', 'count', 'helpful', 'estimating', 'potential', 'severity',
 'disease', 'Although', 'highly', 'dependent', 'stage', 'infection', '', 'red',
 'blood', 'cells', 'parasitized', 'increased', 'chance', 'developing', 'severe',
 'disease', 'Other', 'prognostic', 'factors', 'presence', 'peripheral', 'blood',
 'schizonts', 'P', 'falciparum', 'pigment', 'deposits', 'peripheral',
 'polymorphonuclear', 'leucocytes', 'blood', 'film', '', 'metabolic', 'acidosis',
 'elevated', 'lactate', 'level', '', 'Treatment', 'uncomplicated', 'falciparum',

'malaria', 'adultsThere', '', 'main', 'therapeutic', 'options', 'treatment',
'uncomplicated', 'falciparum', 'malaria', 'adults', 'UK', 'oral', 'quinine',
'doxycycline', 'quinine', 'clindamycin', 'circumstances', 'co-artem',
'artemetherlumefantrine', '', 'Riamet', 'atovaquoneproguanil', 'Malarone',
'Box', '', 'details', 'doses', 'All', 'equally', 'effective', 'Although',
'mefloquine', 'effective', 'effects', 'high', 'rate', 'non-completion',
'courses', 'recommend', 'therapy', 'UKBox', 'Treatment', 'regimens',
'uncomplicated', 'malaria', 'adultsOral', 'quinine', 'sulphate', '', '', 'days',
'doxycycline', '', 'daily', 'clindamycin', '', 'pregnant', 'women', '',
'daysAtovaquoneproguanil', 'Malarone', '', 'standard', 'tablets', 'daily', '',
'days', 'orCo-artem', 'Riamet', 'weight', '', '', 'tablets', 'tablets',
'', '', 'hClinical', 'experience', 'therapy', 'co-artem', 'Riamet',
'atovaquoneproguanil', 'Malarone', 'limited', 'Western', 'settings', 'However',
'newer', 'regimens', '', 'days', 'In', 'contrast', 'quinine', '', 'days',
'cinchonism', 'nausea', 'deafness', 'ringing', 'ears', 'poor', 'adherence',
'Although', 'international', 'recommendations', 'quinine', '', 'days',
'endemic', 'areas', 'UK', 'experience', 'suggests', '', 'days', 'treatment',
'adequate', 'vast', 'majority', 'cases', 'Quinine', 'combined', 'drug',
'doxycycline', 'adults', 'clindamycin', 'pregnant', 'women', 'young',
'children', 'ensure', 'complete', 'eradication', 'parasites', 'The', 'drug',
'simultaneously', 'sequentially', 'quinine', 'In', 'view', 'increasing',
'failure', 'rates', 'anti-folate', 'drugs', 'balance', 'UK', 'opinion',
'sulfadoxinepyrimethamine', 'Fansidar', 'routinely', 'drug', 'accompany',
'quinine', 'circumstances', 'Chloroquine', 'NOT', 'treatment', 'falciparum',
'malariaTreatment', 'severe', 'complicated', 'falciparum',
'malariaAntimalarial', 'therapyUrgent', 'therapy', 'greatest', 'impact',
'prognosis', 'severe', 'malaria', 'Treatment', 'delayed', 'patients', 'proven',
'suspected', 'malaria', 'Parenteral', 'treatment', 'patients', 'severe',
'complicated', 'malaria', 'high', 'risk', 'developing', 'severe', 'disease',
'Box', '', 'patient', 'vomiting', 'unable', 'oral', 'antimalarialsBox', 'Other',
'indications', 'parenteral', 'therapy', 'adultsParasitaemia', '', '', 'red',
'blood', 'cells', 'parasitizedPregnant', 'womenPatients', 'unable',
'swallowretain', 'tabletsQuinineIntravenous', 'quinine', 'dihydrochloride',
'antimalarial', 'drug', 'treatment', 'severe', 'malaria', 'UK', 'It',
'intravenous', 'infusion', 'initial', 'loading', 'dose', '', 'mgkg', '',
'dextrose', 'dextrosesaline', '', 'achieve', 'high', 'blood', 'levels',
'rapidly', 'Box', '', 'This', '', 'mgkg', 'infused', '', 'A', 'loading',
'dose', 'quinine', 'mefloquine', 'therapy', 'previous', '', 'An', 'alternative',
'loading', 'dose', 'regimen', 'achieve', 'therapeutic', 'levels', 'rapidly',
'Box', '', 'Caution', 'exercised', 'older', 'patients', 'cardiac', 'disease',
'potential', 'quinine', 'lead', 'arrhythmias', 'These', 'patients', 'ECG',
'monitoring', 'intravenous', 'quinine', 'treatmentBox', 'Drug', 'treatment',
'severe', 'complicated', 'malariaQuinine', 'loading', 'dose', '', 'mgkg',
'quinine', 'dihydrochloride', '', 'dextrose', 'dextrose', 'saline', '',
'Followed', '', 'mgkg', '', 'patient', 'swallow', 'Frequency', 'dosing',
'reduced', '', 'hourly', 'intravenous', 'quinine', 'continues', '',
'hAlternative', 'rapid', 'quinine', 'loading', 'regimen', 'adults', '', 'mgkg',
'quinine', 'dihydrochloride', '', 'min', 'infusion', 'pump', '', 'mgkg', ''

'hParenteral', 'quinine', 'therapy', 'continued', 'patient', 'oral', 'therapy',
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 'quinine', 'totalQuinine', 'treatment', 'accompanied', 'drug', 'doxycycline',
 '', 'clindamycin', '', '', 'times', 'day', 'pregnant', 'women', '', 'mgkg', '',
 'times', 'day', 'children', 'orally', 'total', '', 'days', 'patient',
 'swallowArtesunate', 'regimen', 'adults', 'expert', 'advice', '', 'mgkg',
 'intravenous', 'injection', '', '', '', 'daily', 'A', '-day', 'doxycycline',
 'givenWhen', 'patient', 'oral', 'medication', 'oral', 'quinine', 'substituted',
 '', '', 'times', 'day', 'complete', 'total', '', 'days', 'doxycycline', '',
 'daily', 'clindamycin', '', '', 'times', 'day', 'pregnant', 'women', 'total',
 '', 'days', 'If', 'intravenous', 'quinine', 'continued', 'longer', '',
 'patient', 'renal', 'failure', 'severe', 'hepatic', 'dysfunction', 'quinine',
 'doses', 'reduced', 'one-third', 'ArtemisininsThis', 'class', 'drugs', 'acts',
 'ring', 'forms', 'parasite', 'theoretical', 'advantages', 'rapid', 'reduction',
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 'patients', 'severe', 'malaria', 'high', 'parasite', 'counts', 'The',
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 'artesunate', 'specialist', 'tropical', 'disease', 'centres', 'London',
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 'Riamet', 'licensed', 'UK', 'children', '', '', 'years', '', 'kg\t', '',
 'tablets', '', 'tablets', '', '', '', '', '', 'tablets', '', 'tablets', '',
 '', '', '', '', '', 'tablets', '', 'tablets', '', '', '', '', '', 'tablet',
 '', 'tablet', '', '', '', '', 'hIntravenous', 'quinine\tSee', 'dosing',
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'malaria', 'childrenImpaired', 'consciousness', 'seizuresRespiratory',
'distress', 'acidosis', 'pH', '', 'Hypoglycaemia', '', 'mmollSevere', 'anaemia',
'', 'gdLProstrationParasitaemia', '', '', 'red', 'blood', 'cells',
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'medicationsTreatment', 'non-falciparum', 'malariaTreating', 'acute',
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'vivax', 'P', 'ovale', 'ensuring', 'eradication', 'liver', 'hypnozoites',
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'mgkg', 'total', '', 'days', 'drug', 'choice', 'treatment', 'blood', 'forms',
'non-falciparum', 'species', 'Chloroquine', 'retreatment', 'relapses', 'occur',
'Chloroquine', 'highly', 'effective', 'strains', 'P', 'malariae', 'P', 'ovale',
'effective', 'cases', 'vivax', 'malariaChloroquine', 'resistance', 'leading',
'poor', 'clinical', 'outcomes', 'chloroquine', 'treatment', 'recognised',
'vivax', 'malaria', '', 'This', 'uncommon', 'increasing', 'problem', 'regions',
'Papua', 'New', 'Guinea', 'Indonesia', '', 'The', 'committee's', 'view',
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'', 'regimens', 'treatment', 'uncomplicated', 'malaria', 'effective', 'Table',
'', 'Treatment', 'non-falciparum', 'malariaAcute', 'treatmentChloroquine',

'Adult\tInitial', 'dose', '', 'mga', '', 'days', '', 'Treatment', 'acute',
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 artematovaquoneproguanil\tAs', 'uncomplicated', 'falciparum\tTreatment',
 'resistant', 'vivax', 'malariaPreventing', 'relapsePrimaquine', 'Adult\t',
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 'suppressive', 'therapy', 'weekly', 'chloroquine', 'delivery']

3 Criando listas no formato [[palavra, numero de ocorrências], ...]

```
[37]: # Contando o número de cada palavra e colocando elas em uma lista com o
      ↳ respectivo número de ocorrência
listaOcorrencia37 = [[texto37[0], texto37.count(texto37[0])]]

for palavra in texto37:
    contador = 0;
```

```

for ocorrencia in listaOcorrencia37:
    if palavra in ocorrencia[0]:
        contador += 1
if contador == 0:
    listaOcorrencia37.append([palavra, texto37.count(palavra)])

listaOcorrencia5 = [[texto5[0], texto5.count(texto5[0])]]

for palavra in texto5:
    contador = 0;
    for ocorrencia in listaOcorrencia5:
        if palavra in ocorrencia[0]:
            contador += 1
    if contador == 0:
        listaOcorrencia5.append([palavra, texto5.count(palavra)])

# Ordenando a listaOcorrencia pelo numero de ocorrências
listaOcorrencia37 = sorted(listaOcorrencia37, key = lambda ocorrencia:
    ocorrencia[1], reverse = True)
listaOcorrencia5 = sorted(listaOcorrencia5, key = lambda ocorrencia:
    ocorrencia[1], reverse = True)

```

4 listaOcorrencia37

```
[38]: print(listaOcorrencia37)
```

```

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['friends', 1]]
```

5 listaOcorrencia5

```
[53]: print(listaOcorrencia5)
```

```
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6 Plotando os Gráficos

```

[52]: #criando o eixo x e y dos gráficos
import matplotlib.pyplot as plt

x37 = [ocorrendia[0] for ocorrendia in listaOcorrendia37]
y37 = [ocorrendia[1] for ocorrendia in listaOcorrendia37]
x5 = [ocorrendia[0] for ocorrendia in listaOcorrendia5]

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y5 = [ocorrendia[1] for ocorrendia in listaOcorrendia5]

# pegando somente as dez palavras mais frequentes
x37 = x37[0:10]
y37 = y37[0:10]
x5 = x5[0:10]
y5 = y5[0:10]

# Construindo os gráficos
figura = plt.figure(figsize=(23,10))
figura.suptitle('Palavras Mais Frequentes no texto37.txt e no texto5.txt')
figura.add_subplot(121)
# Gráfico do texto37
plt.bar(x37, y37, label='ocorrência das palavras')
plt.title('Palavras Mais Frequentes No texto37.txt')
plt.ylabel('Ocorrências')
plt.xlabel('Palavras')
plt.yticks([yi for yi in y37])
plt.legend()
# Gráfico do texto5
figura.add_subplot(122)
plt.bar(x5, y5, label='ocorrência das palavras')
plt.title('Palavras Mais Frequentes No texto5.txt')
plt.ylabel('Ocorrências')
plt.xlabel('Palavras')
plt.yticks([yi for yi in y5])
plt.legend()

# mostrando os gráficos
plt.show(figura)

```

Palavras Mais Frequentes no texto37.txt e no texto5.txt



