



What can machines learn from text?

Natural Language Processing

Fall 2024

The *pirax* game

- You will be shown three sentences on each slide
- Each sentence has one word that is blanked out (repeated blanks are the same word)
- You are training yourself to learn the meaning of a new word: *pirax*
- In each slide, choose one of the three sentences to fill in the blank with the word *pirax*
- The order of the sentences is randomized so *pirax* appears in 1st, 2nd or 3rd position.
- Once we have seen several examples, we will repeat it once
- There is no right or wrong answer! At first you will be guessing and that's ok.
- At the end of your "training" do your best to describe *pirax*.

They also instituted a ration system under which all employers in the Congo were required to furnish their employes with _____ and adequate food .

The graph , _____ a set , may have a finite number of components .

details on _____ ; ;

In its important elements _____ Christianity and _____ the Biblical view _____ reality in general , which now cause us much difficulty , could be responded to quite naturally and spontaneously .

And once medicine , food , _____ and shelter had been provided for the flood's victims , communications and the mail were the next top problems .

_____ now music too ? ?

All I ever wanted was to be a free man in _____ own country .

We cannot _____ of Oedipus without a Sphinx , nor of Hamlet without a Ghost .

Heat during the Atlanta campaign , coupled with unsuitable _____ , caused individual irritation that was compounded by a lack of opportunity to bathe and shift into clean _____ .

The potential market for the machine should be comparable to that of the Unifil
_____ winder .

There was much sickness in the corps , and the men were , in addition ,
without the _____ , shoes , and blankets needed for the winter weather .

For added comfort some of the Italian designed sandals have foam padded
_____ .

Warm _____ and bedding , of course , are essential .

A posse _____ formed and pursues the robbers , who , having made their escape , are whooping it up with some wild , wild women in a honky-tonk hide-out .

Ptolemy's problem is to forecast where , against the inverted _____ of night , some particular light will be found at future times .

_____ course he would .

the group sets the styles in _____ , the kind of play engaged in , and the ideals of right and wrong behavior .

_____ , 2 ; ;

One part of her audience was totally engaged , the connoisseur witnessing a peculiarly fine _____ of some ancient classic , the other part , the guest of the connoisseur , attentive as one who must take an intelligent interest in that which he does not fully understand .

And for a man who traveled around without any change of _____ , a few more stains on his dark suit may very well have gone unnoticed .

_____ The board of regents of Paris Junior College has named Dr. Clarence Charles Clark of Hays , Kan. as the school's new president .

He recalled Lucy , as `` a bright-looking black-eyed young lady who _____ regularly through the boys' study hall to join the class in Greek in the little recitation room beyond '' .

And she felt amply rewarded for her suffering when the evidence of Lee's quack shenanigans , gathered by the tape recorder under her friend's _____ , proved adequate in court for convicting Franklin D. Lee .

You need her even more than you need him '' _____

It works with English , Russian , _____ , Hungarian or almost any other foreign tongue .

A second car _____ coming from the west , from the direction of Sanford's Run .

It was foolish and snobbish to wear _____ when none of these nice people did .

Susan and Julia ripped strips from their _____ and bound the injury .

Nor were there any rules to save him _____

Their only hope of survival was to hold to _____ road and keep marching .

Corruption is hardly a recent development in the city and state that were widely identified as the _____ of Edwin O'Connor's novel , `` The Last Hurrah '' .

In the half darkness the _____ gleamed , and the hall seemed enormous .

Cheap _____ and junk of every sort , as far as the eye could see .

Foster had brought extra _____ also .

In _____ small gallery used as _____ guests' dining room , Meredith sat down at his place and , as always , began teasing _____ young waitress .

“ Get up , _____ .

This set his tone : richness of texture and color , and another kind of richness as well , for his _____ and decorations would have paid the Brush-off's rent for a year .

He went upstairs to phone Crumb _____

There are many possibilities , including _____ circulation , a variety of neurological conditions , and functional disorders .

This agency accepted responsibility for medical services to a population ranging from 638,560 persons in 1941 to 840,503 in 1956 in the Kwango District and adjacent _____ east of Leopoldville .

You may deduct these payments even though your child uses the money to purchase his own _____ or other necessities which you are normally obligated to furnish him , and even though you may be entitled to his services .

(Thornton _____ where he had been driven by a companion .

The last exercise of Roland Claude's prescribed program _____ Henri is a single exercise , done in individual sets with a bit longer pause between sets .

There had been signs and portents like the regular toppling over and defacing of the bust of Lauro Di Bosis near the _____ Lante and in the Gianicolo .

Soon after Loper leaked the news that Frankie had ordered `` two of everything '' just `` in case he spills anything '' , Frankie got so mad at the chic designer that he vowed he would not wear a stitch of Loper _____ .

If anything may be predicted in the quicksilver world of retailing , it seems likely that the suburban branch will come to dominate children's _____ (taking the kid downtown is too much of a production) , household gadgetry and the discount business in big-ticket items .

A tragedy , by his definition , is an imitation of an action that is serious , of a certain _____ , and complete in itself .

Willie's big day revived the running argument about the relative merits of _____ and Mickey Mantle .

they will be faithful unto _____ .

His name is Praisegod Piepsam , and he is rather fully described as to his _____ and physiognomy in a way which relates him to a sinister type in the author's repertory -- he is a forerunner of those enigmatic strangers in ``Death In Venice '' , for example , who represent some combination of cadaver , exotic , and psychopomp .

Jokes _____ cartoons and cynics to the contrary _____ mothers-in-law make good friends .

The gala is the Thrift Shop's annual bundle party and , as all Thrift Shop friends know , that means the admission is a bundle of used _____ in good condition , contributions of household equipment , bric-a-brac and such to stock the shelves at the shop's headquarters at 1213 Walnut St. .

It was a level at which some of the investors _____ on the sidelines were thought likely to buy the pivotal issues represented in the averages .

The Republicans some weeks ago served notice through Senator Thruston B. Morton (R) _____ Kentucky , chairman _____ the Republican National Committee , that the Kennedy administration would be held responsible if the outcome in Laos was a coalition government susceptible _____ Communist domination .

The family home was _____ in fact _____ a temple ; ;

The citrus tones popular in _____ are also to be found afoot .

I was _____ , like Portia , to present my own brief .

Idea from psycholinguistics talk by Steven Piantadosi

<https://www.youtube.com/watch?v=IA19zXgObKA>

Source data is taken from the Brown corpus (all categories)

Dürer's Rhinoceros

This woodcut was by German artist Albrecht Dürer in 1515.

Dürer never saw the actual rhinoceros, which was the first living example seen in Europe since Roman times.

Instead the image is based on an anonymous written description and brief sketch.

Compare with learning knowledge from text; both in terms of impressive performance and limitations.

