

AND TECHNOLOGY

Seminar in Artificial Intelligence Word embeddings

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Agenda

- Introduction
 - Subtopic 1
 - Subtopic 2



Introduction

What is word embadding?

Seminar Topic (change, please!)



Introduction

What a **lovely** day. What a **nice** day.



Introduction

What =
$$[1, 0, 0, 0, 0]$$

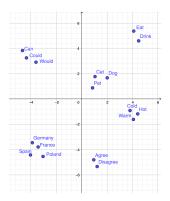
a = $[0, 1, 0, 0, 0]$
lovely = $[0, 0, 1, 0, 0]$
nice = $[0, 0, 0, 1, 0]$
day = $[0, 0, 0, 0, 1]$



How can we use it?

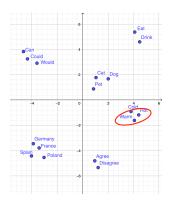
- If user search for "Dell notebook battery size" we would like to match it also with "Dell laptop battery capacity"
- f user search for "Cracow Motel" we would like to match it also with "Krakow Hotel"





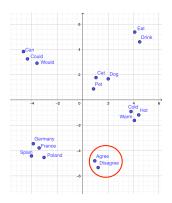
Caption of the figure





Words are synonyms

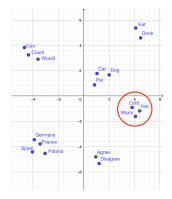




Words are antonyms

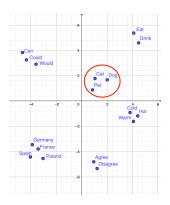


Slide with a Figure from a File



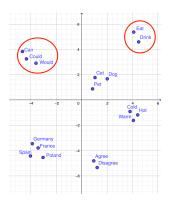
Words are value on a scale





Words are hyponym - hypernym





Words appear in similar context



Subtitle of the Slide: Use Only if Necessary...

- Bulalet point 1.
- Bullet point 2 -e- you can emphasise a text.



Slide without Bullets

Text:

Blocks are good for important notions.

Alertblocks are even better to catch the attention.

Title

You can have the title in the (alert)block.



Slide with a Figure from a File

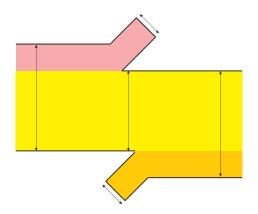
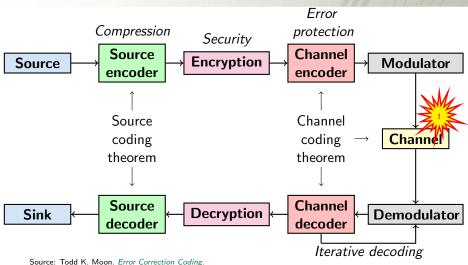


Figure: Caption of the figure

I am sorry that the example figures and the table concern the information theory ©



Slide with a Figure Drawn with tikz



John Wiley & Sons, Inc., Hoboken, NJ, 2005.



Slide with a Table

Table: Caption of the Table

Data	Entropy
Plain text	4.347
Native executables	5.099
Packed executables	6.801
Encrypted executables	7.175

Source: Robert Lyda and James Hamrock. Using Entropy Analysis to Find Encrypted and Packed Malware. IEEE Security & Privacy, 5(2):40–45, March/April 2007.



Thank you for your attention!

Seminar Topic (change, please!) 18/19



Q & A

