similarity

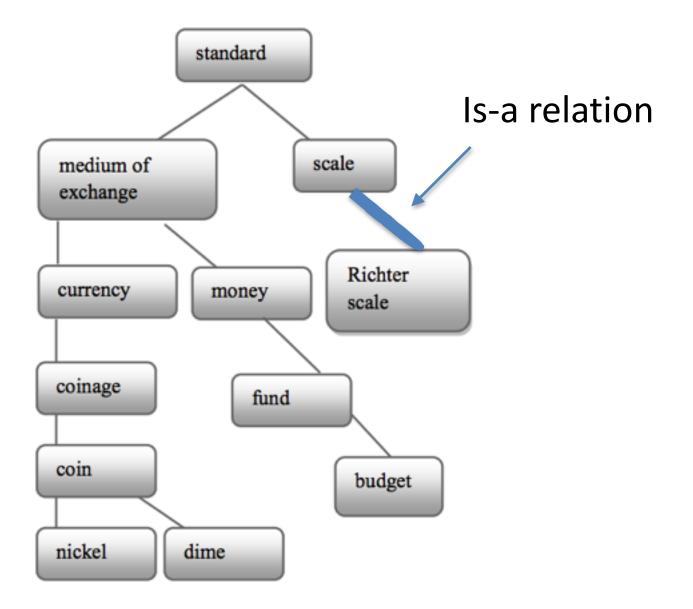


Fig1: A fragment of the WordNet hypernym hierarchy

Graph was taken from: Slimani, Thabet. "Description and evaluation of semantic similarity measures approaches." arXiv preprint arXiv: 1310.8059 (2013).

similarity path

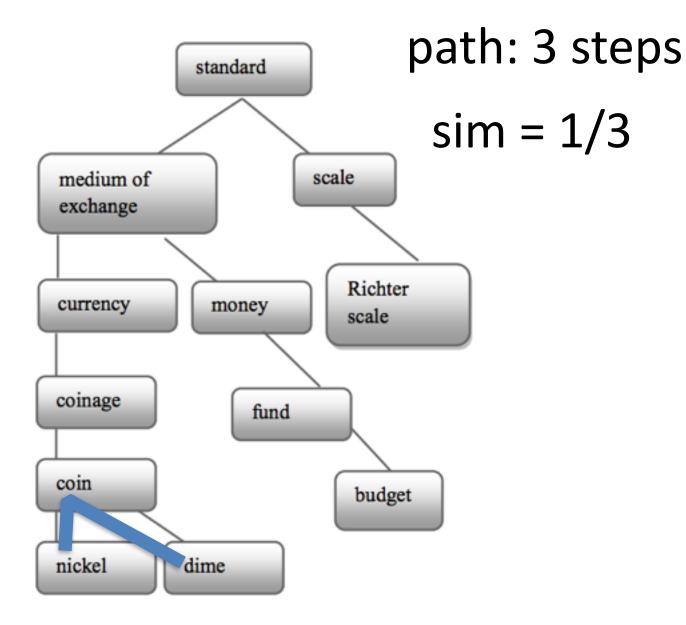


Fig1: A fragment of the WordNet hypernym hierarchy

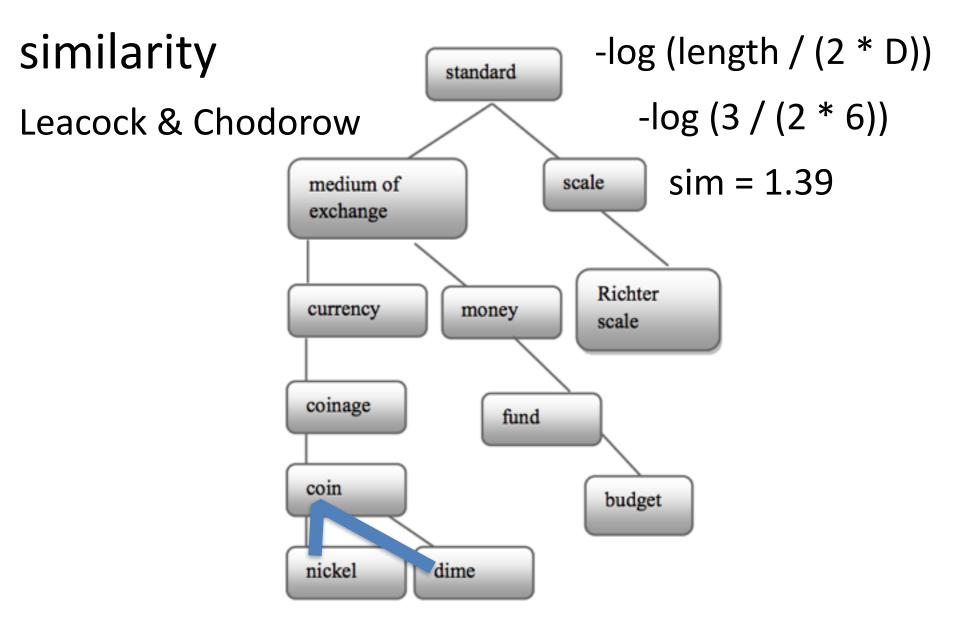


Fig1: A fragment of the WordNet hypernym hierarchy

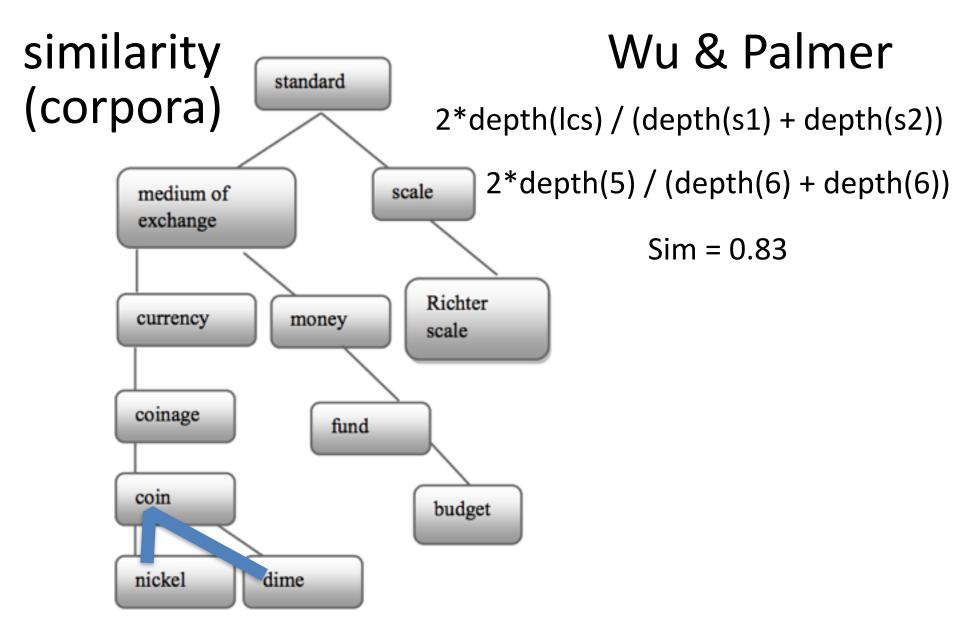
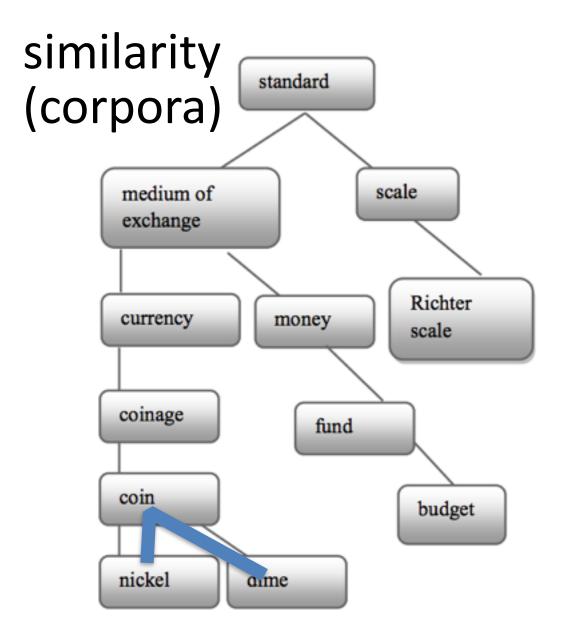


Fig1: A fragment of the WordNet hypernym hierarchy



Resnik sim = IC (lcs) IC = -log(p) sim = -log(0.002)= 6.21

Fig1: A fragment of the WordNet hypernym hierarchy

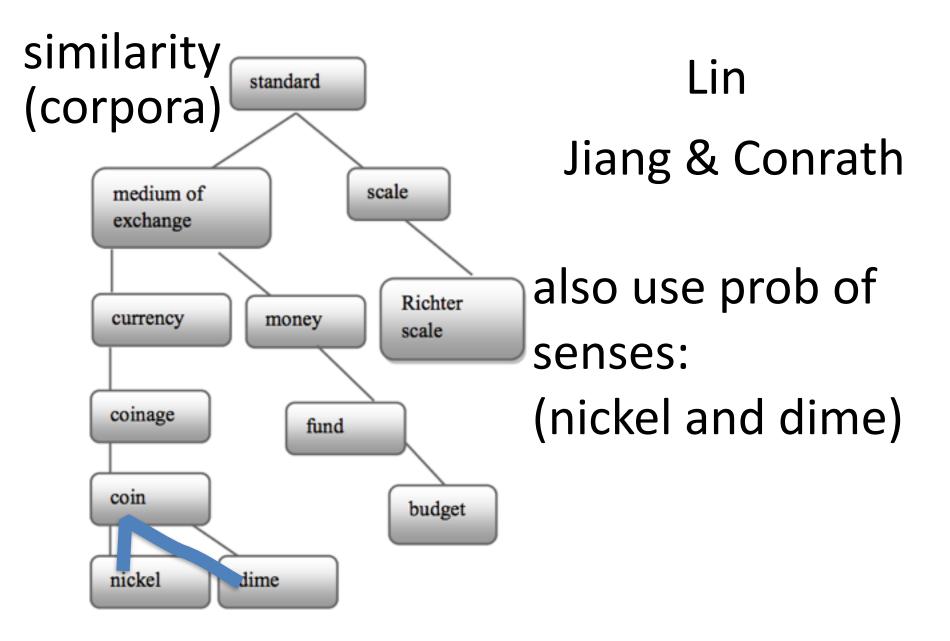


Fig1: A fragment of the WordNet hypernym hierarchy

relatedness (definitions)

Lesk overlap in words

```
a United States coin worth one tenth of a dollar
```

```
a hard malleable ductile silvery metallic element that is resistant to corrosion; used in alloys; occurs in pentlandite and smaltite and garnierite and millerite
```

many variations using all related senses around words

Similarity: is-a relation
Relatedness: all semantic relations
or definitions
use external corpora (state of the art)

Main idea: state of art uses ideas from "old" algorithms

An Enhanced Lesk Word Sense Disambiguation Algorithm through a Distributional Semantic Model (state of the art on one dataset)

Unsupervised Most Frequent Sense Detection using Word Embeddings