



Notivator

HyperbolicOT

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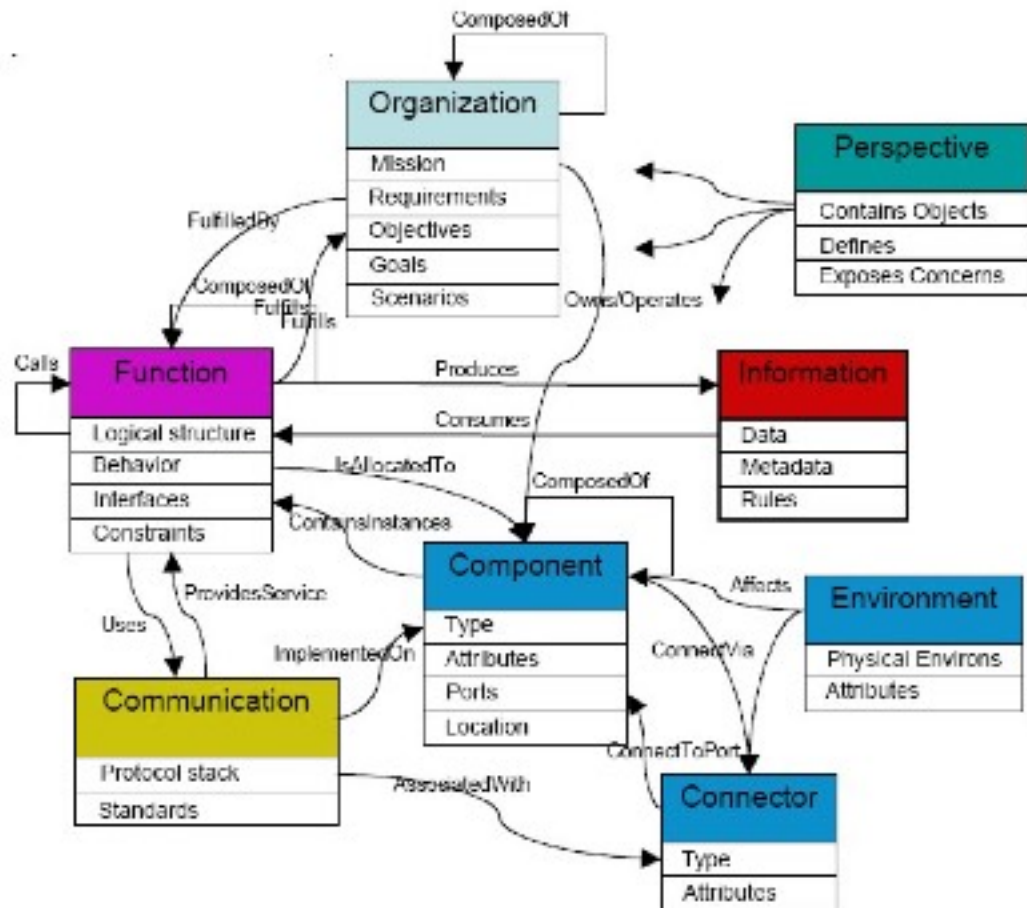
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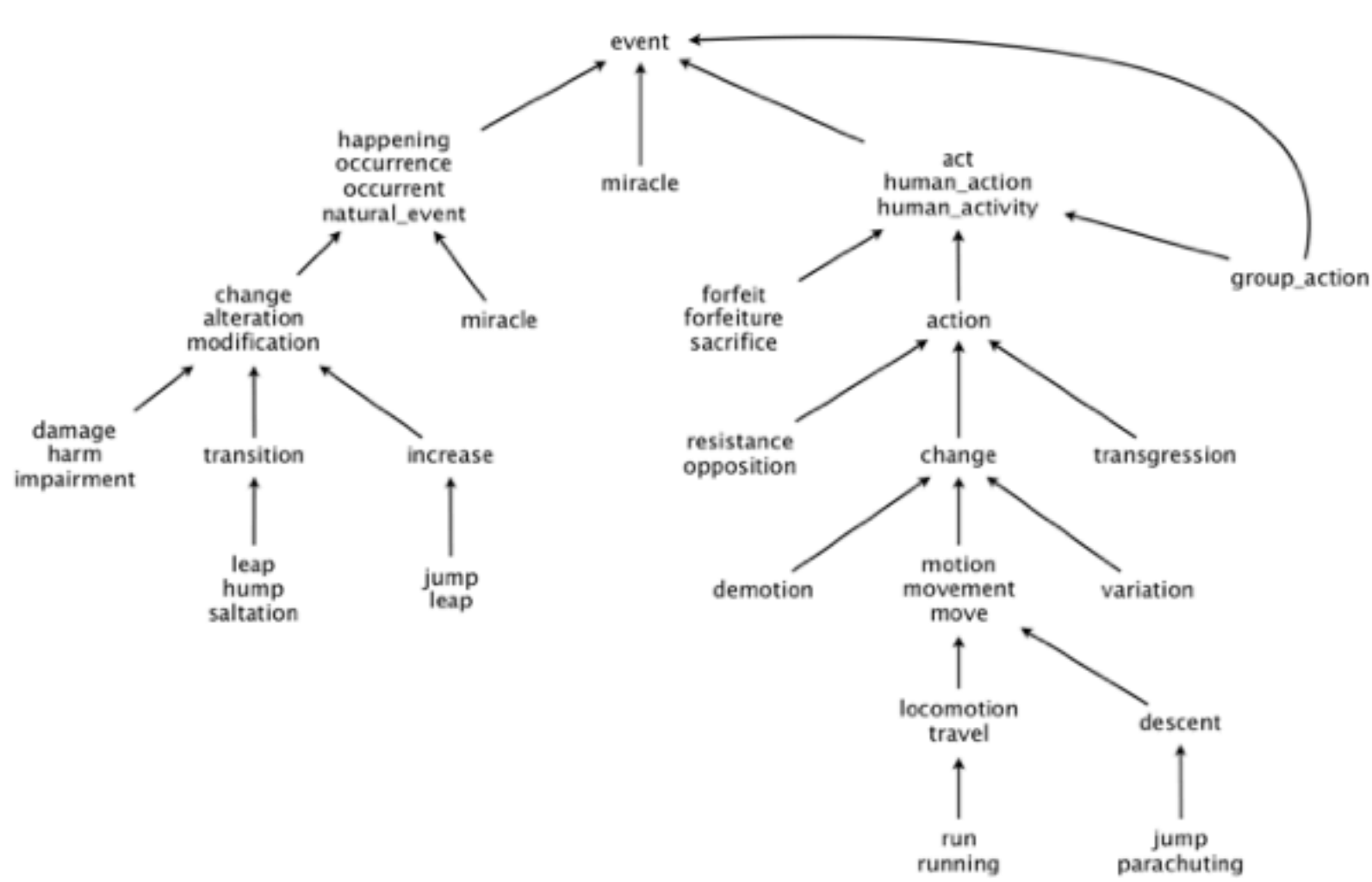
• Hierarchical structures occur in various domains

• Expensive to build and maintain - great interest in **merge**, **match**, extend them

• Typical word by word appearance side knowledge based and label-textual similarity

• Can we approach this in a fully unsupervised way?

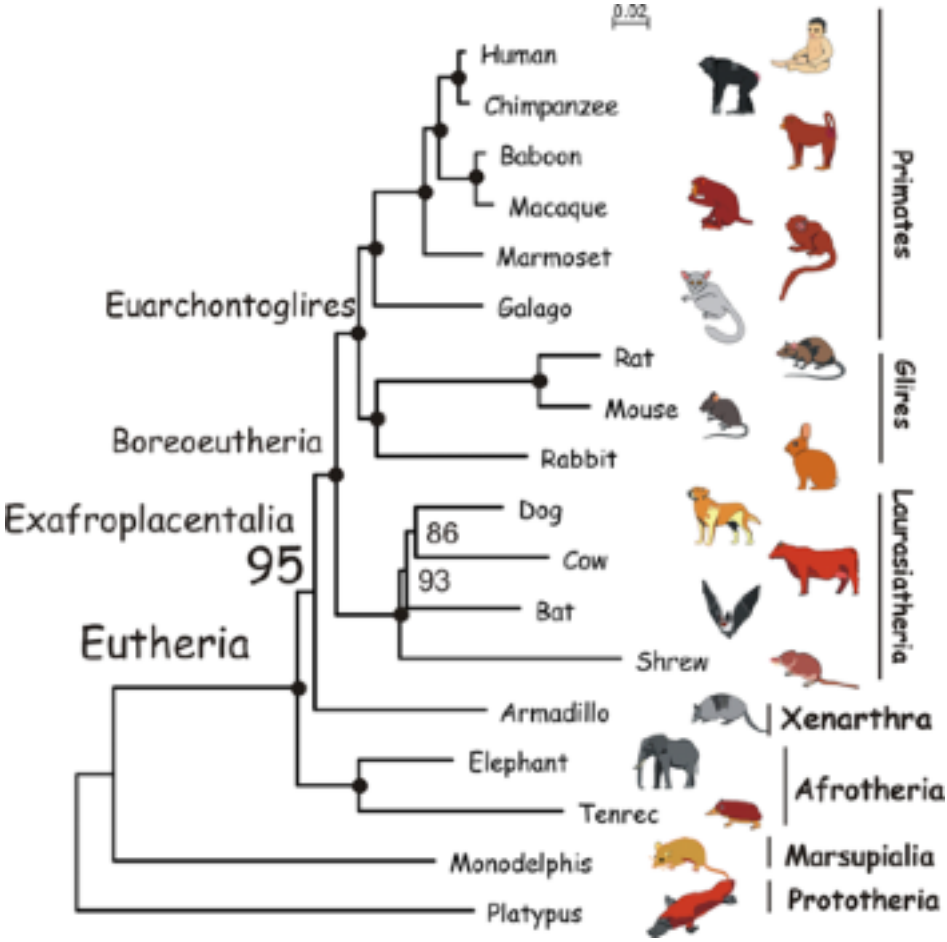




WORDNET

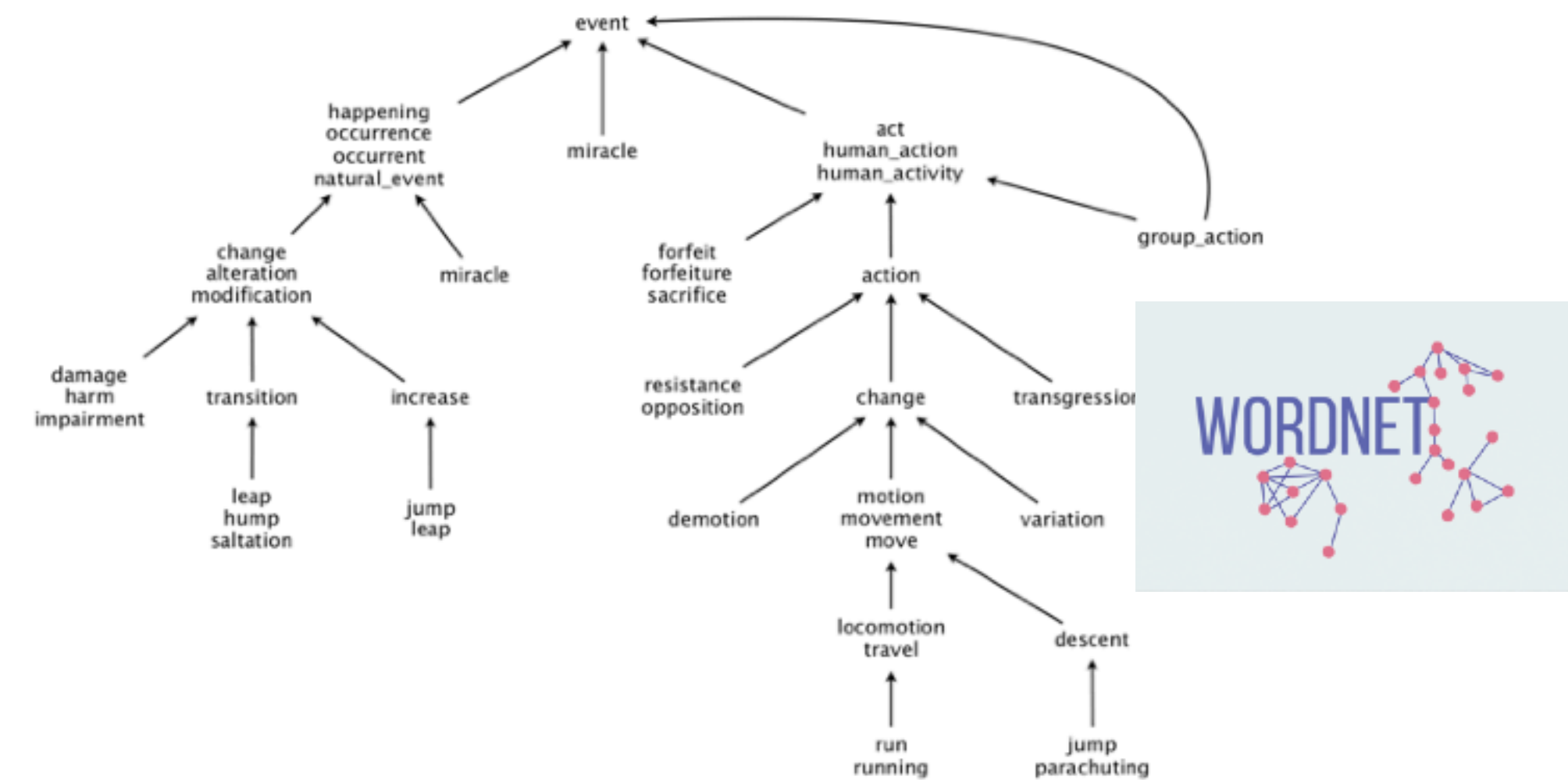
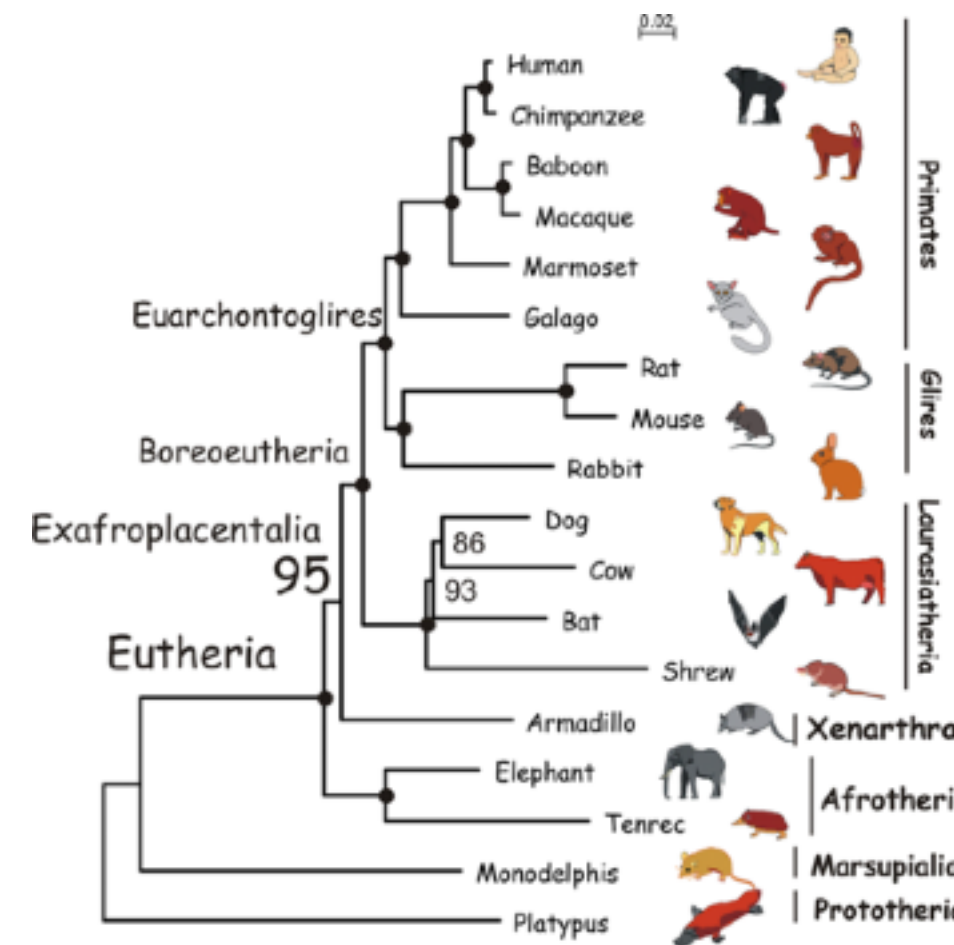
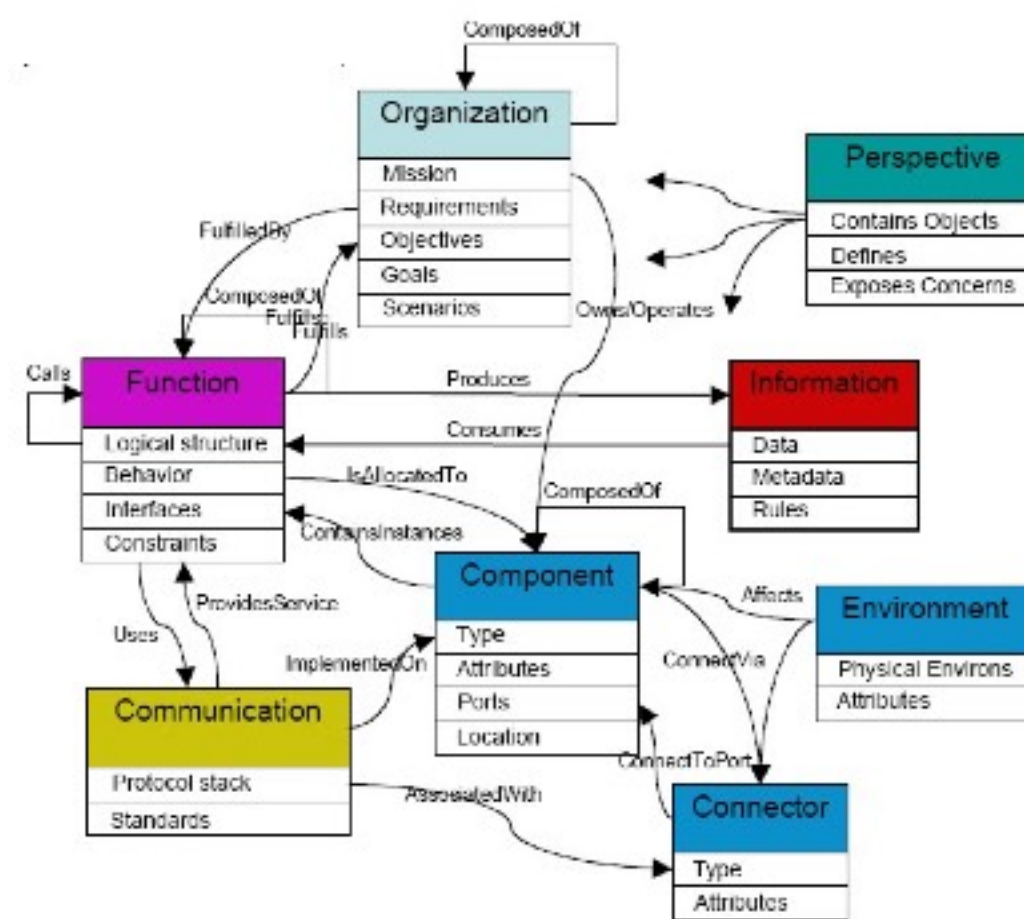


Credit: (1) By Peter Shames & Joseph Skipper, NASA, JPL, (2) Mitya-Burgas et al., 2007, (3) Princeton University



Hyperbolic OT Motivation

- Hierarchical structures occur in various domains



- Expensive to build and maintain - great interest in methods to **merge, match**, extend them
- Typically solved by appeal to outside knowledge bases and label-textual similarity
- Can we approach this in a **fully unsupervised** way?

Hyperbolic OT

for unsupervised hierarchy matching: a roadmap