Delta Normal AGI

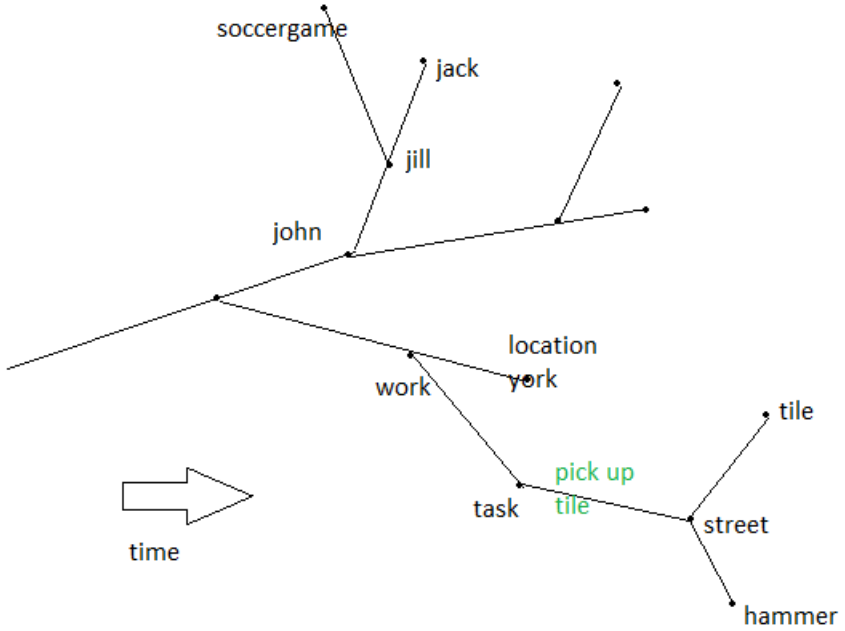
explained

Introduction

- the leading idea is that the AGI consists of PSDs. These PSDs are small lookup tables with a convergent character.
- You can combine PSDs into a so-called 'pyramid landscape'.
- A pyramid landscape can be composed in such a way that it is convergent and forms a human-like problem solver.

The world is a graph

- A graph is an interconnected tree of data points



A metagraph is an even more complex graph with multiple dimensions

Simplified graphs

- A company graph
- The ‘actual’ graph (can be compared to short term memory)

Sent

- A Sent is a small part of a graph
- Format : e0 e1 e2 e3 val

Key Value Sent

- Format: e0 e1 e2 e3 val | e0 e1 e2 e3 val

Sent format (examples)

probability

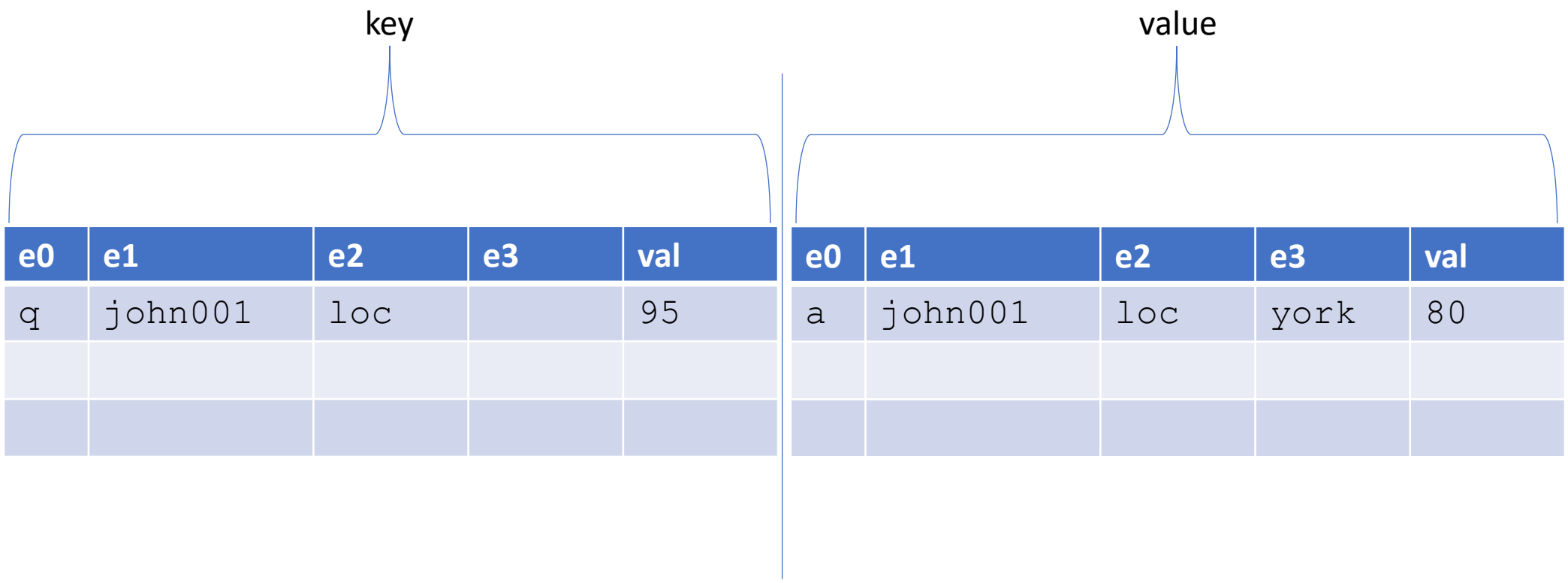
e0	e1	e2	e3	val
a	house	isa	container	90
a	house	isa	shield	60
.	sizetype	stat	22	70
.	materialtype	stat	stone	60
.	materialtype	stat	wood	20

‘Dot’ means this Sent follows last used e1

logarithmic table

We can also depict this table as a small graph

Pyramid/PSD format (example)



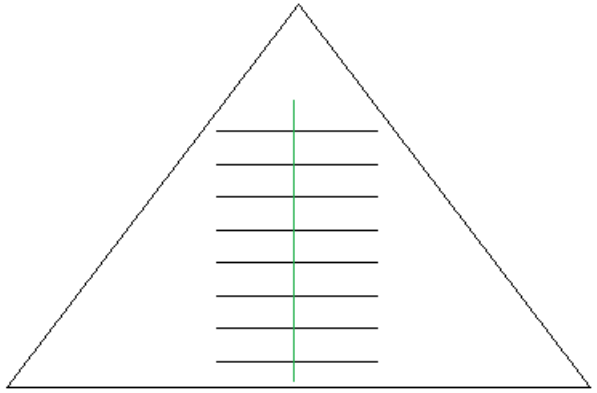
e0	e1	e2	e3	val
q	john001	loc		95

e0	e1	e2	e3	val
a	john001	loc	york	80

Question: Where is John? Answer: I believe John is in York

Pyramid (aka PSD)

- A PSD/Pyramid is a small collection of Key Value Sentences



- A PSD/Pyramid has a convergent nature (the so-called ‘Delta’)
- The PSD and Sents in it have a convergent nature
- A PSD/Pyramid can be seen as a look-up table

A Pyramid landscape

- A pyramid landscape is a simplification of a large graph
- Each pyramid can refer to another pyramid
- Because each pyramid is convergent, the total collection is also convergent
- The ‘Delta’ takes care of switching focus between pyramids

- Keywords to characterize a collection of pyramids are:

Granularity, orthogonality, compositionality

Appendix A

- A collection of pyramids is convergent. Therefore, it is a combinatory optimizing collection of functions. Therefore, it is a COFO.

ter Doest, P. (2023). The Delta Normal AGI. In: Goertzel, B., Iklé, M., Potapov, A., Ponomaryov, D. (eds) Artificial General Intelligence. AGI 2022. Lecture Notes in Computer Science(), vol 13539. Springer, Cham. https://doi.org/10.1007/978-3-031-19907-3_12

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