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## **What is Nyreth?**

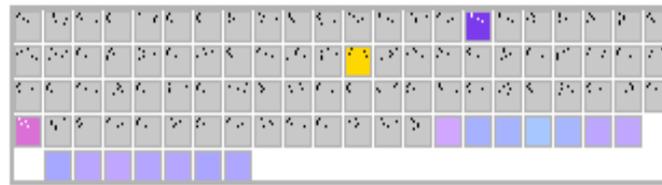
The Nyreth system uses recursive symbolic AI technology to identify and process the emotionally and cognitively salient and meaningful parts of text, and packages that meaning in a way that is useful for AI in our symbolic units called Nyr tiles. This allows AI systems and agents to not only parse the text itself but to understand the inherent meaning contained within it. This contrasts with most current AI approaches that do not understand meaning, but just join token strings statistically.

Nyr tiles are designed to be portable, rich, and compact. They can compress text selections into a small footprint and can enable systems to search for specific emotion and cognitive signatures in vast data, all whilst training AI systems to understand human emotion and cognition.

Each microgrid block corresponds to a specific token/word, and the individual coloured blocks identify particular emotion/cognition focal points in the text. At the end of nyr tile there will be an emotion and/or cognition tensor consisting of 7 consecutive coloured blocks, which portrays the average sentiment in the text selection, and is described in more detail in the tile's metadata. The shades of colours in the tensor strips correspond to a specific numerical value that is machine readable.

Microgrid blocks equate to tokens

Emotion/cognition focal points



Cognition tensor

Emotion tensor

AI systems can interpret nyr tiles by directly reading them visually or with the use of the metadata. Nyr tiles are both machine readable and human comprehensible. These tiles are part of a broader Nyreth ecosystem that can be used to train AI systems in recursive symbolic logic.

Thauron