Cognitive Architecture Core Chart

Primitives:

State - The overall condition of the system.

Context - The boundaries within the frame of reference.

Signal - An orienting symbol that informs of some quality or quantity.

Goal - The intended direction of the system.

Feedback - Input from the output of an action to be used as data.

Observation - Viewing thought and potentially re-arranging it.

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Interpretation - A viewpoint constructed by cross-referencing information to a contextual world model.

Workspace - The field of conscious awareness where thoughts are tangible, felt, and understood.

Gate - A component or mechanism that permits or denies access due to one or more conditions.

Trace - A stored piece of datum that can form a larger memory.

Interactions:

Context are the boundaries the **workspace** is in, as well as the boundaries of the prediction and inference process. **State** influences **context** setting inside the **workspace**. **Goals** also influence **context** setting and the prediction process. **Signals** send information to the workspace that can lead to **interpretations**. Once the system generates output, that output can be reinterpreted as **feedback** through **observation**. **Traces** inform **interpretations**.

Observing state signals can lead to an **interpretation. Observing** the **workspace** provides **feedback** into the **workspace** that can lead to an **interpretation**. **Context gates interpretations**. **Signals** are salience **gated** into the **workspace**, which is influenced by **state**.