Core Notation

- **Locus** `ξ` (address): `ε`, `σ`, `σ·1`, `σ·1.2`
- **Actions**: `(+ , ξ, Ι)` open children `I`; `(- , ξ.i)` focus child `i`
- **Daimon** `♦` ends play (success)

Dynamics

- **Interaction**: run `D` vs `E` along shared addresses
- **Orthogonality**: `D □ E` ⇔ run normalizes (may hit `♦`)
- **Behaviour**: $B = B \perp \perp$ (meaning by tests)

Additives (local to a base)

- **with**: `B & C = B n C`
- **plus**: `B ⊕ C = (B⊥ & C⊥)⊥`
- Disjoint negatives: `|B & C| ≅ |B| × |C|`

Multiplicatives & Exponentials

- **⊗, Ŋ** by delocalised composition across independent loci
- **Copy**: fresh sub-loci `σ·0, σ·1, ...`; **Weaken**: `♦`

Arrow / Quantifiers

- **Function space**: $A \vdash B := \{ D \mid \forall a \in A, \langle D \mid a \rangle \in B \}$
- **Uniformity**: quantified tests must be parameter-independent

Tiny ASCII

Success:

```
E: -\sigma ; D: +\sigma ; E: -\sigma \cdot 1 ; D: +\sigma \cdot 1 ; ... ; \blacklozenge
```

Failure:

D only develops $\sigma \cdot 2$; E tests $\sigma \cdot 1 \rightarrow \text{stuck}$