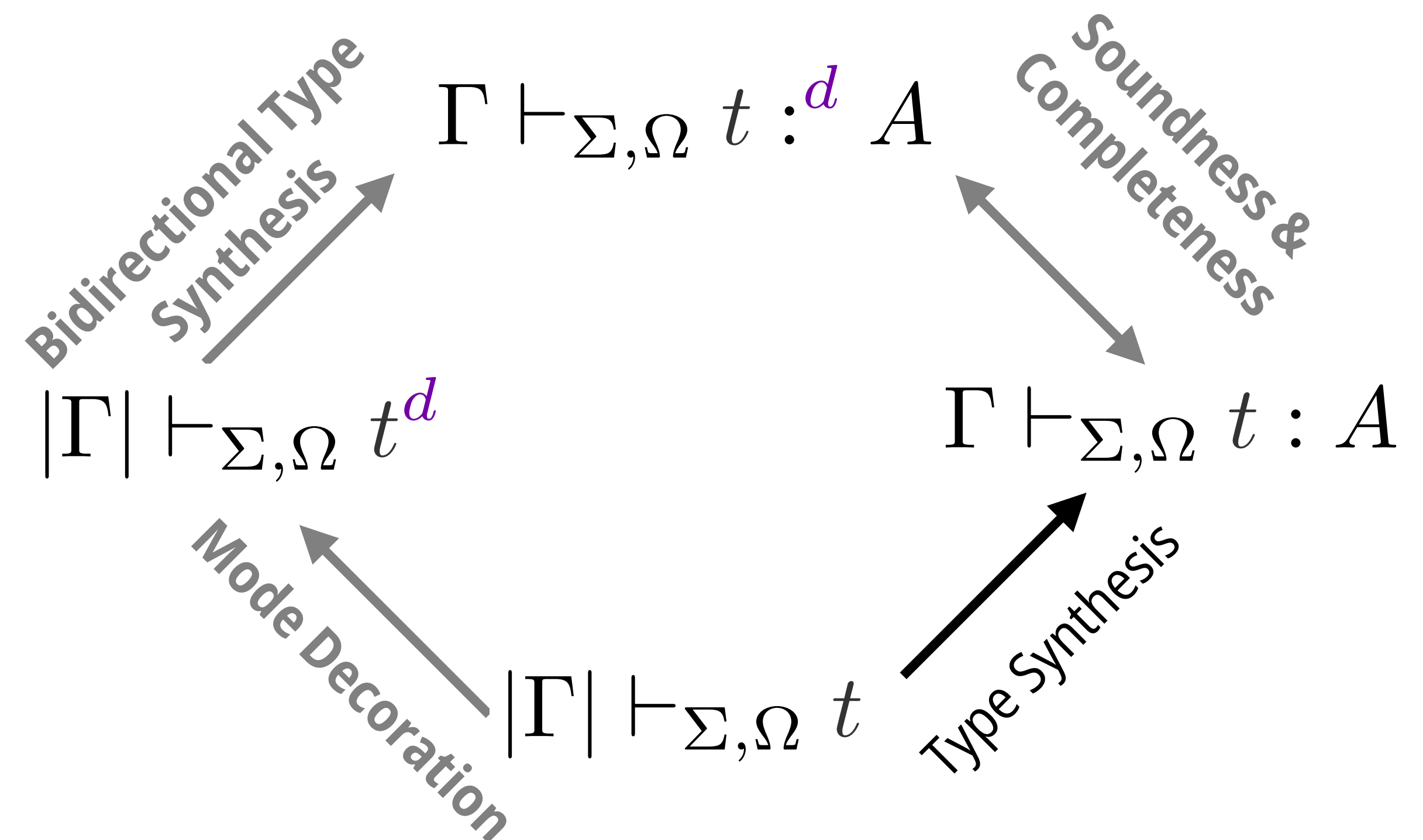# Type Synthesis as Trichotomy on Raw Terms

For any mode-correct system (Σ, Ω), exactly one of the following holds

1. $|\Gamma| \nvdash_{\Sigma,\Omega} t^{\Rightarrow}$

2. $|\Gamma| \vdash_{\Sigma,\Omega} t^{\Rightarrow}$ but $\Gamma \nvdash_{\Sigma,\Omega} t : A$ for any A

3. $|\Gamma| \vdash_{\Sigma,\Omega} t^{\Rightarrow}$ and $\Gamma \vdash t : A$ for some A

Concluding Remarks

GitHub Artefact