

DIAGRAM DEFINITION

`newtype Diagram =`

`Diagram (Dual [Prim], Envelope, Trace)`

`deriving (Semigroup, Monoid)`

HELPER FUNCTIONS

`unD (Diagram (Dual ps, _, _)) = ps`

`prim p = Diagram (Dual [p], envelopeP p, traceP p)`

`mkD = hom prim`

`envelope (Diagram (_, e, _)) = e`

`trace (Diagram (_, _, t)) = t`

VARIATION 5 & 6

TRANSFORMATIONS & MONOID ACTIONS