

# Dispersed System Formalism (DSF)

Draw topological diagrams with DSF

**A tiny Racket experiment**

# Primitives

Example: water (w)

**w**



# Operations

Superposition ( $\sigma$ )

Subscript (h or v) indicates orientation

( $\sigma_h$  W O S)

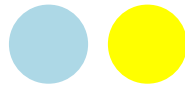


# Operations

Mixing (:

Topologically equivalent to mutual disconnection

( : o w )



# Operations

Inclusion (@)

Bounds a system in a container (capitalised symbol)

(@ (: g w) 0)

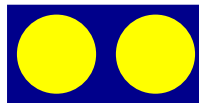


# Operations

Inclusion (@)

Dispersion is inclusion (a bounded multiplicity)

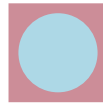
(@ (: o o) W)



# Containers (simple)

Example: solid (S)

(@ w S)



# Containers (nested)

(@ (@ w S) W)

