Dispersed System Formalism (DSF)

Draw topological diagrams with DSF

A tiny Racket experiment

Primitives

Example: water (w)

W



Superposition (σ)

Subscript (optional 'h' or 'v') indicates orientation

(σ w o)



Mixing (:)

Topologically equivalent to mutual disconnection

(: o w)



Inclusion (@)

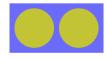
Bounds a system in a container (capitalised symbol)



Inclusion (@)

Dispersion is inclusion (a bounded multiplicity)

```
(@ (: o o) W)
```



Containers (simple)

Example: solid (S)

(@ w S)



Containers (nested)

Operations (contd.)

Other operations include overlap (& x y) and mediate connection (^ x y z)

Tree representation

Define the tree

```
(define complex-tree
'(@ (: w o) s))
```

Tree representation

Draw the tree

(draw-tree complex-tree)

