

Depth of physical engagement

HOW

WHY

ON WHAT

Sheet level

Viz level

Sheet level

Viz level

Change View point

access information
reader assistant

Question sheet

Gesture with no reference

embodiment?

Loose sheet

In-air point / trace

Point / follow

Visualization sheet

Tap pen/hand far from vis

Count ?

Visualization sheet
margin

Touch the vis

Memory holder?

Within Visualization
sheet border

Point/trace with contact

Memory holder
Reader assistant?

Subset of visual
constructs within vis
(node/edge)

Hold

Move sheet outside main field of view
Move sheet into main field of view
Bring sheet closer ("zoom in")
Move sheet further ("zoom out")
Change sheet position within view: rotate/translate
Change sheet position within view: tilt

Organize
information
in space for
access,
comparaison

On textutal element?

Make marks

Emphasize portion of existing representation

Memory holder
Reader assistant?

Write textual explanation

Draw new representation

Empty list
Check list
Table

Transform
information
in space for
access,
comparaison