

Expert Review

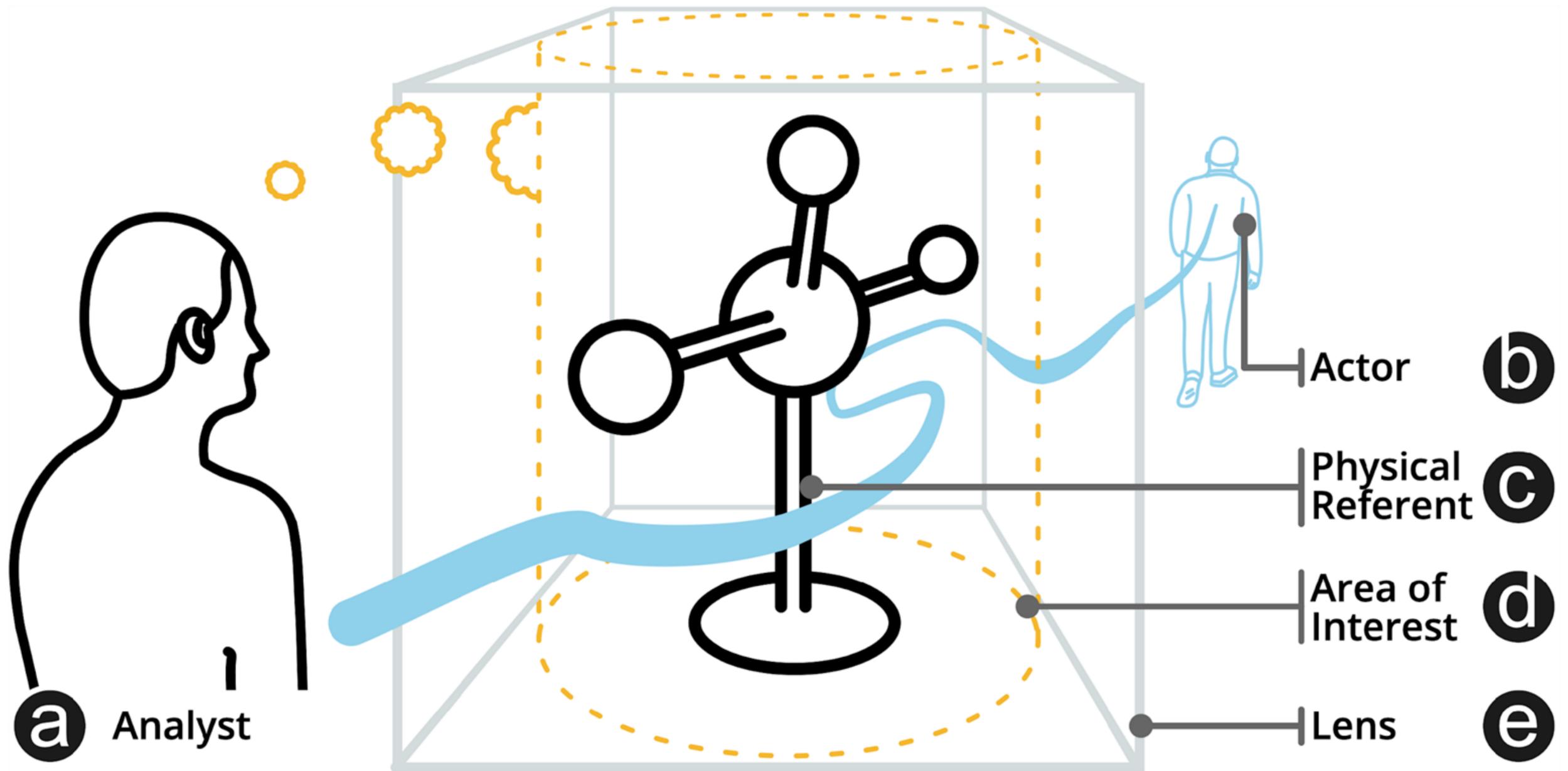
PEARL: Physical Environment
based Augmented Reality Lenses
for In-Situ Human Movement
Analysis



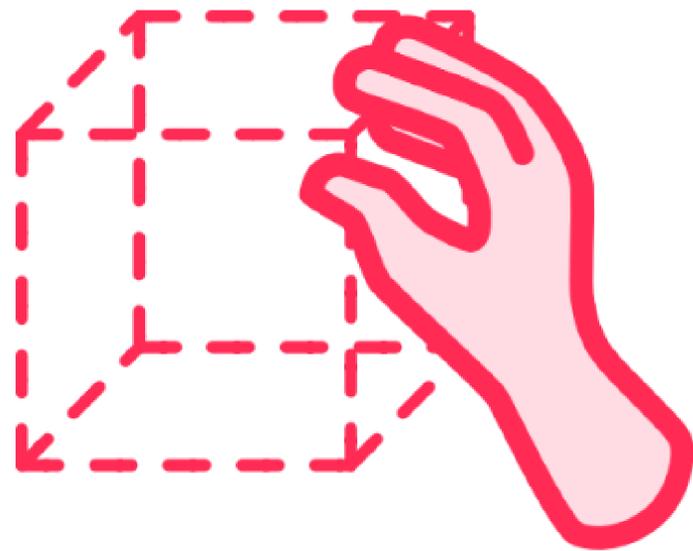
Video Clip

General Ideas

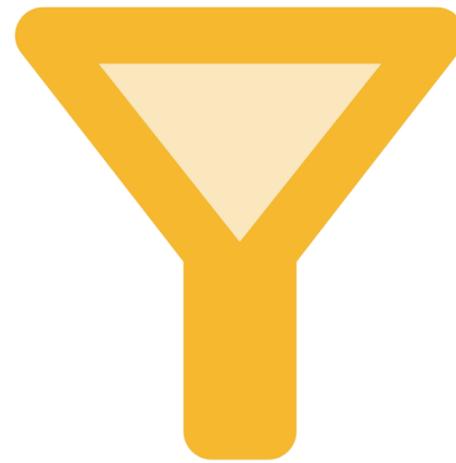
PEARL



PEARL



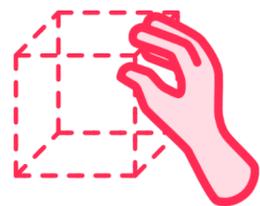
Selector



Filter



Visualizer

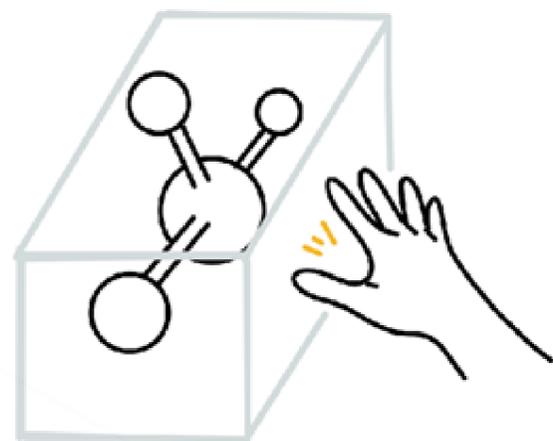


Selector

Creation

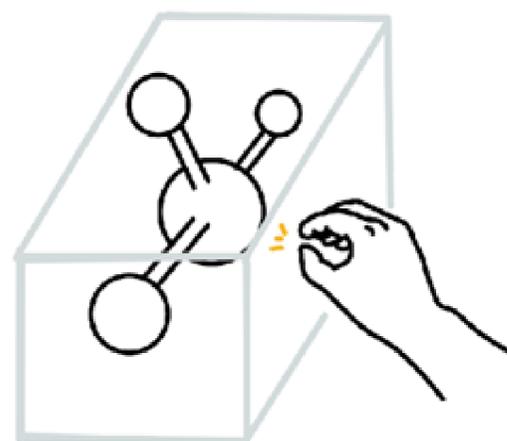


a1

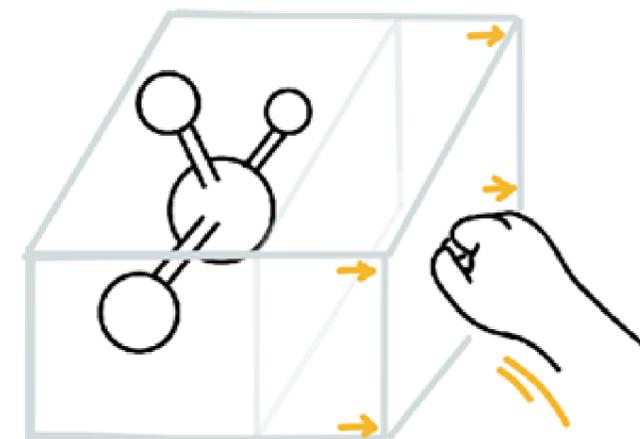


a2

Modification

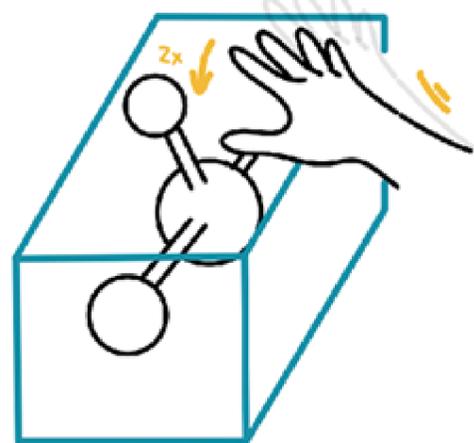


b1



b2

Selection



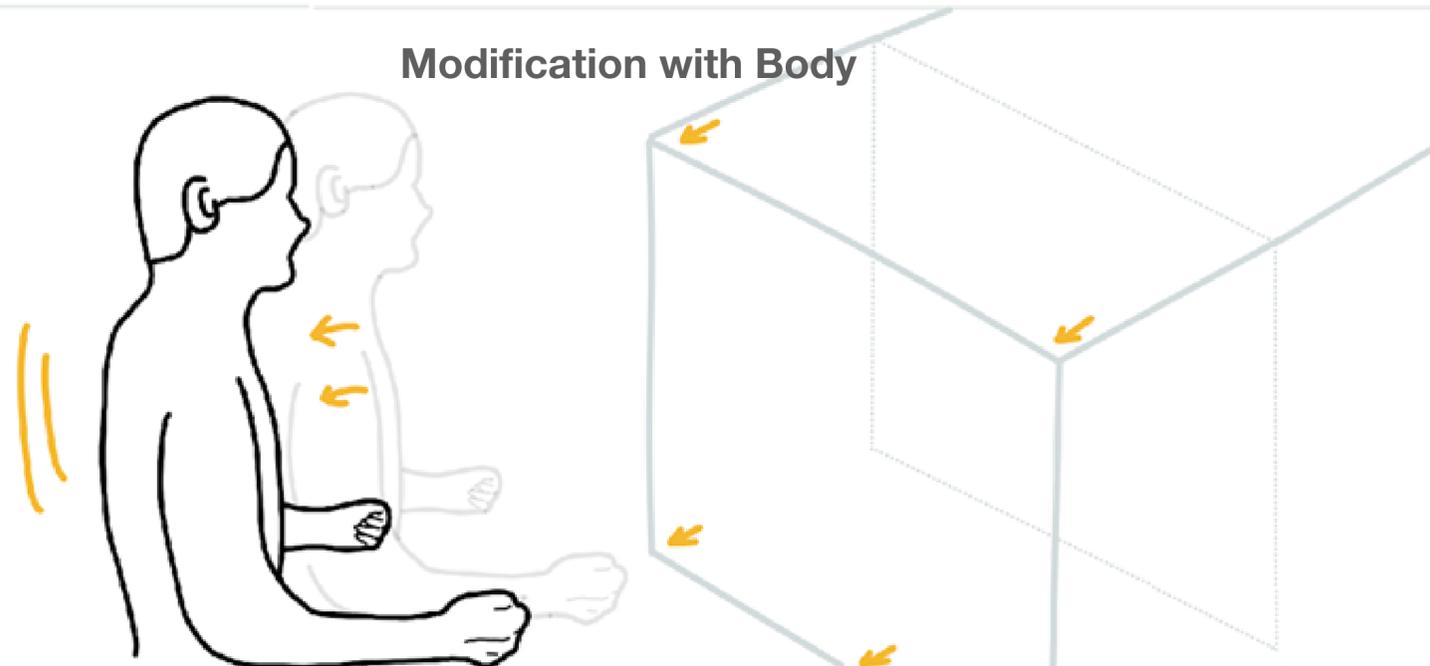
c

Grouping



d

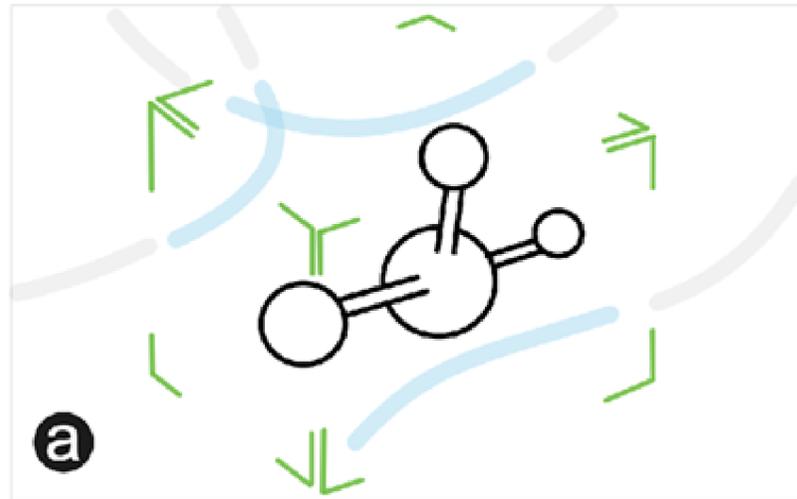
Modification with Body



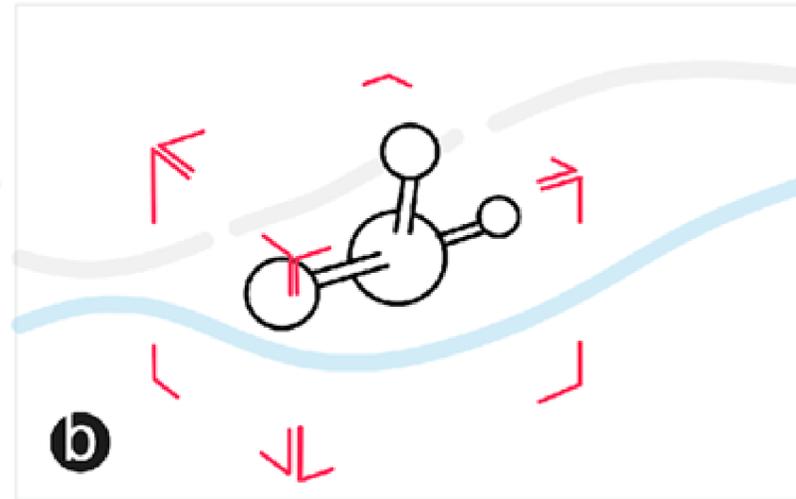
e



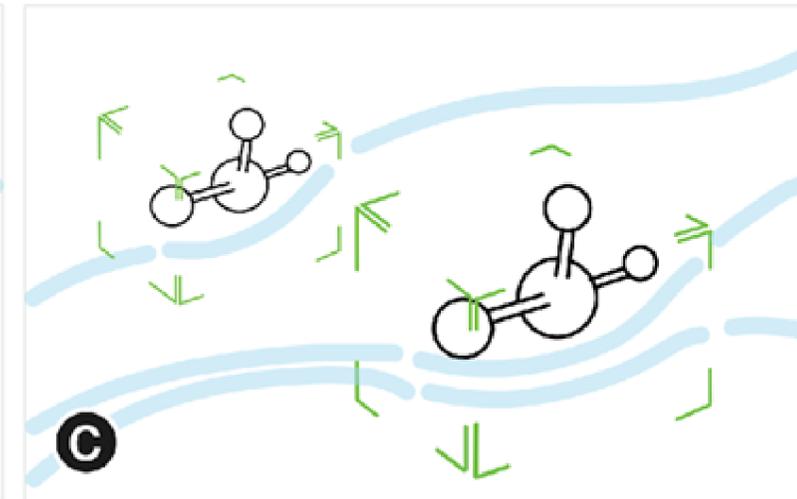
Filter



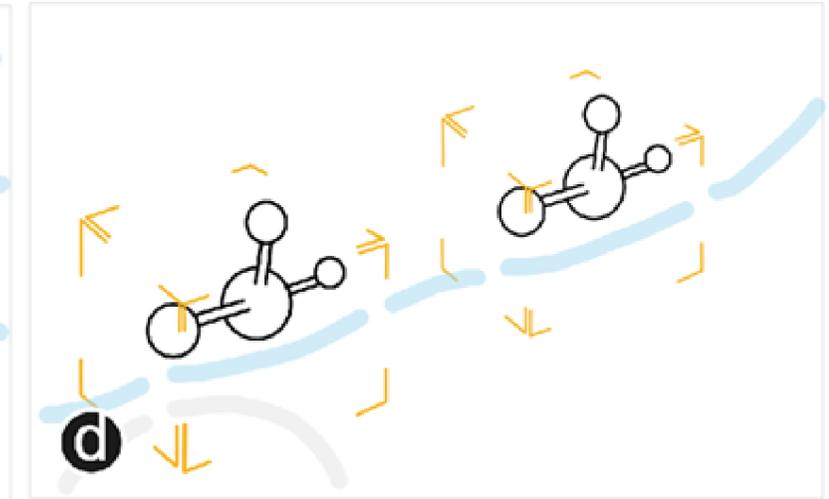
Positive - Data-Level - Filter



Negative - Actor-Level - Filter



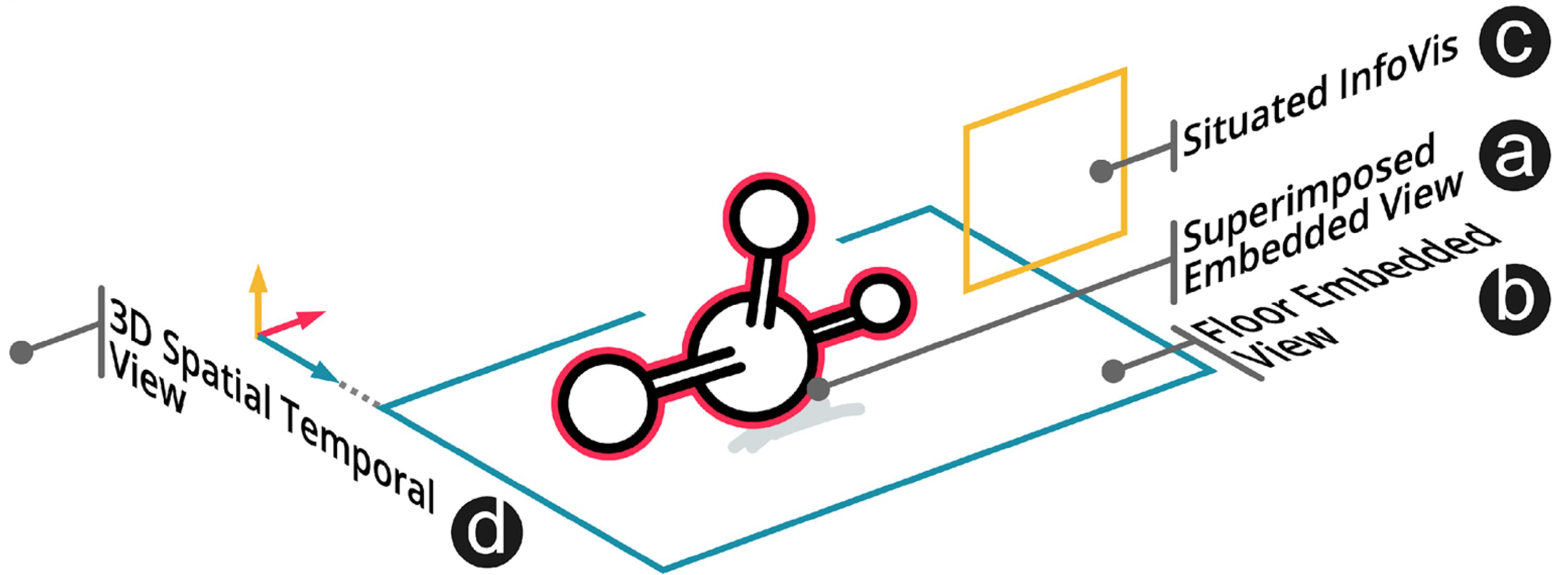
Positive - Actor-Level - OR - Filter



Positive - Data-Level - AND - Filter

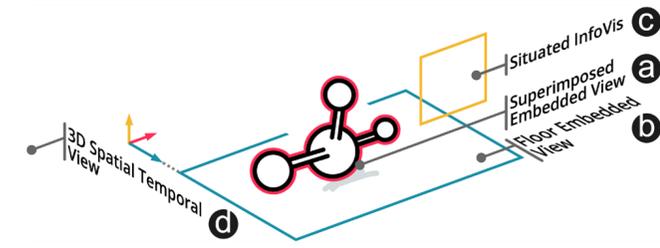


Visualizer

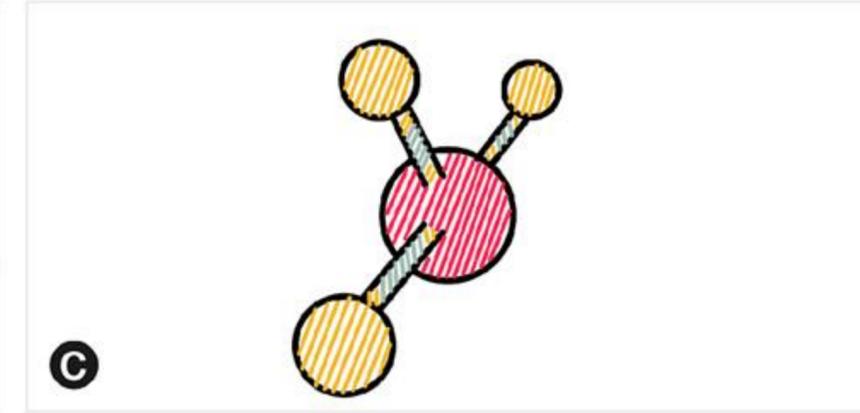
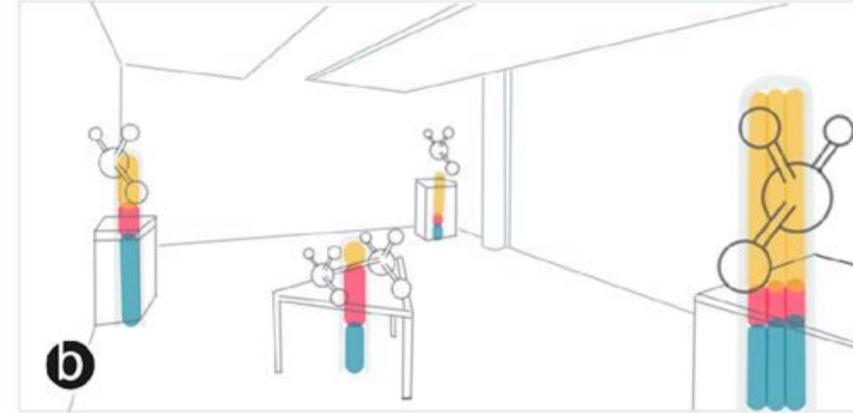
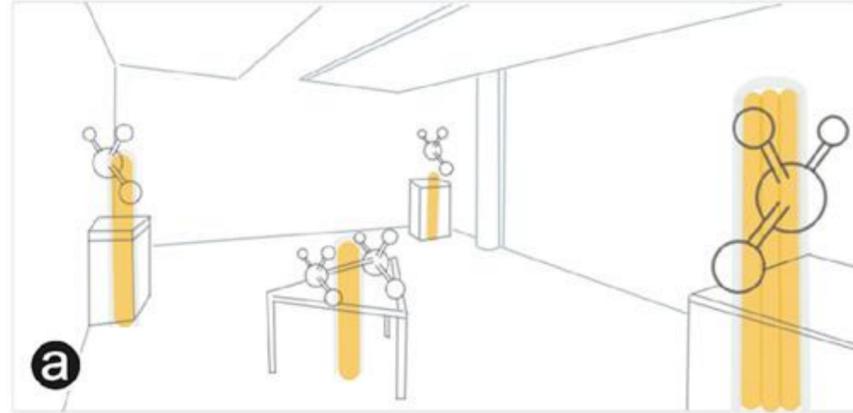




Visualizer

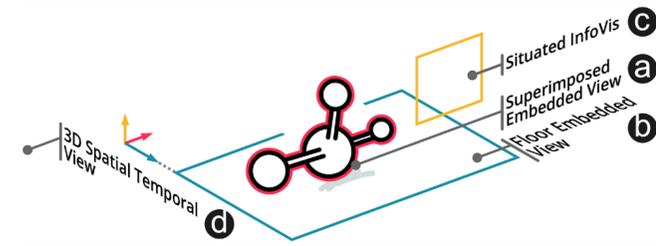


Superimposed Embedded

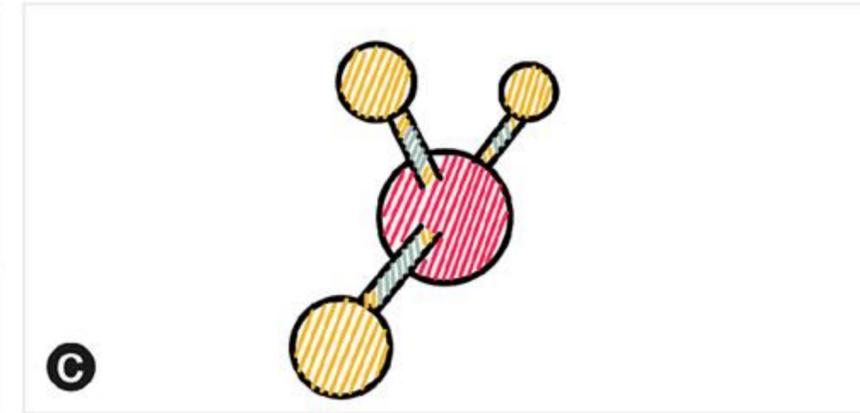
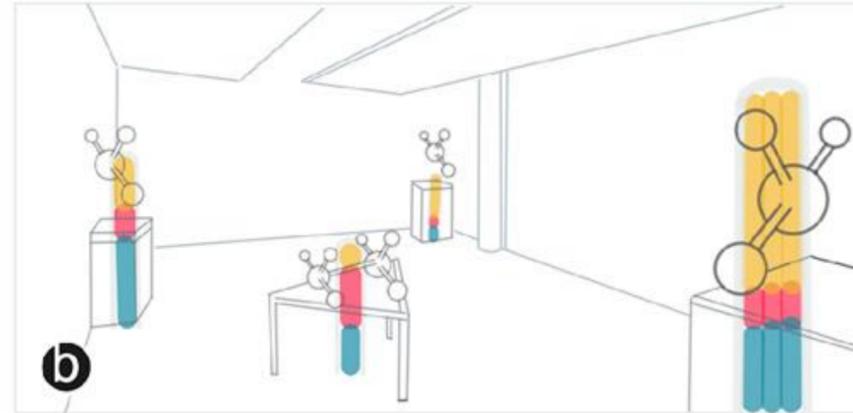
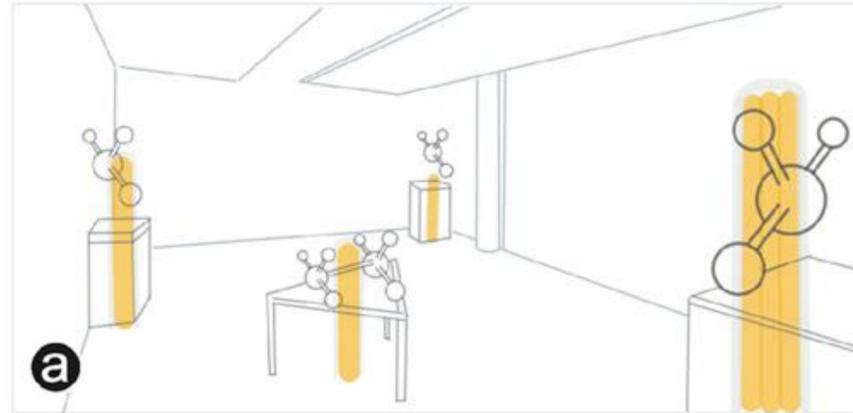




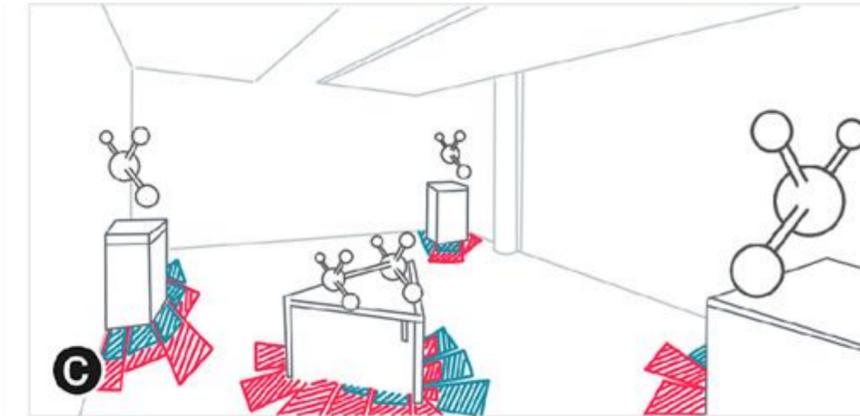
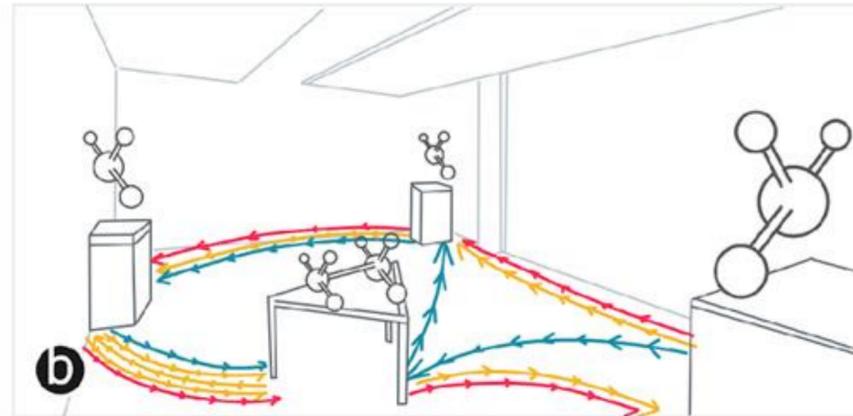
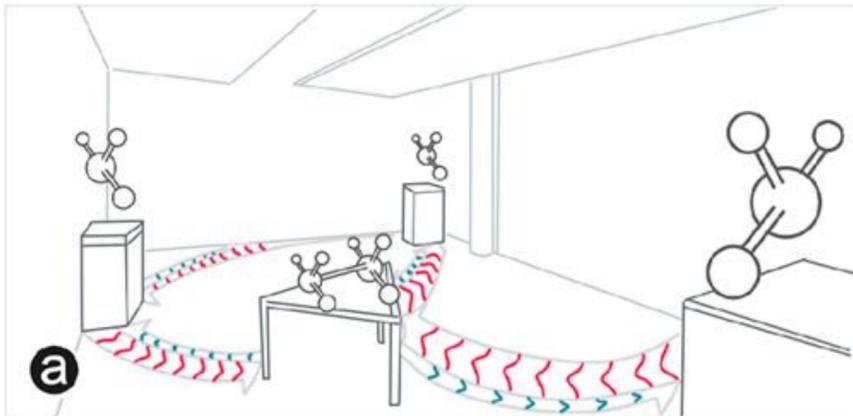
Visualizer



Superimposed Embedded

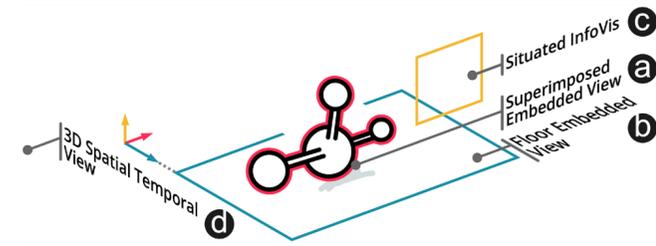


Floor Embedded

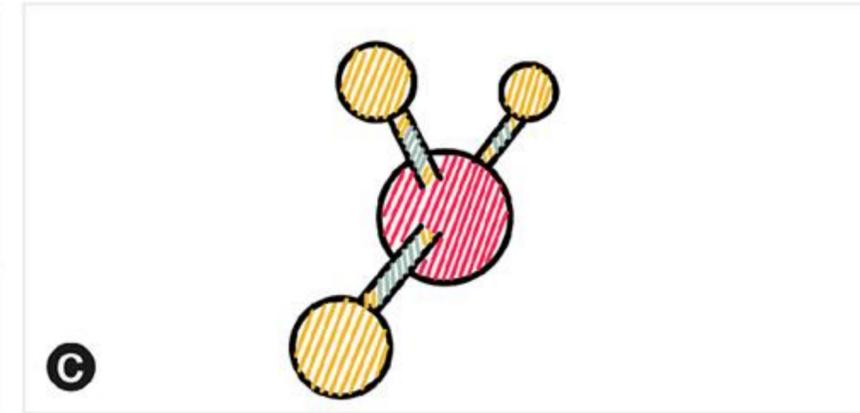
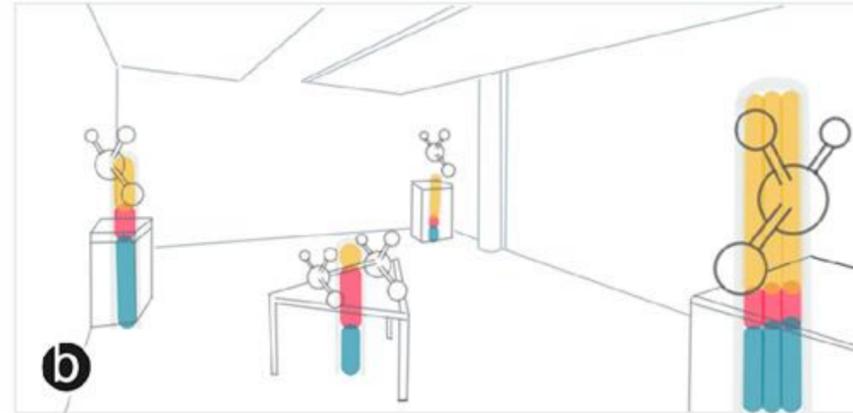
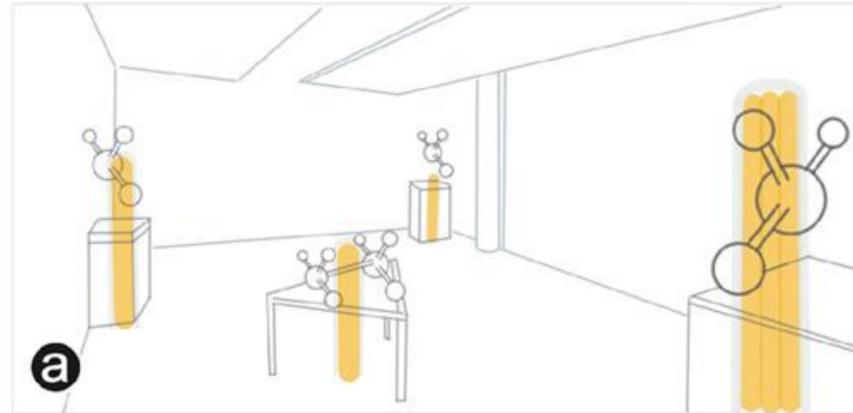




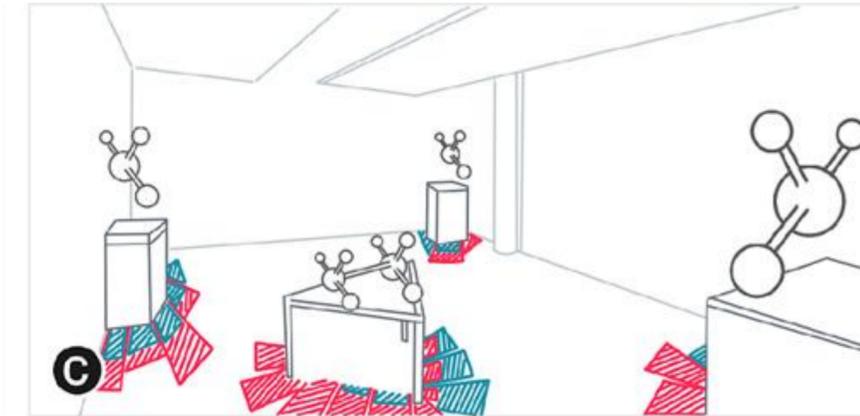
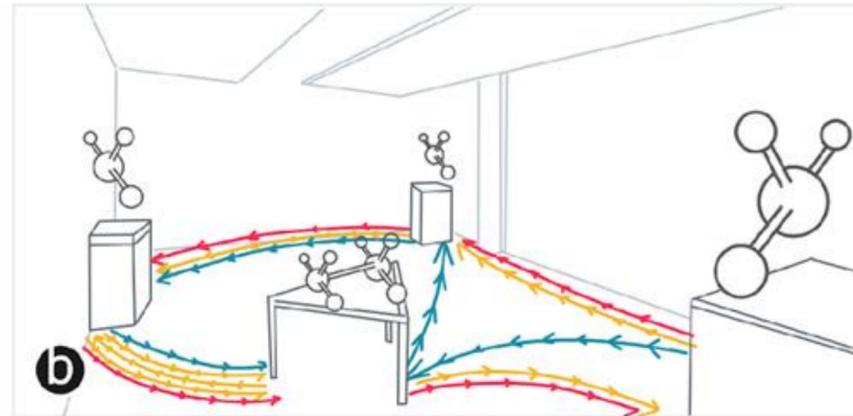
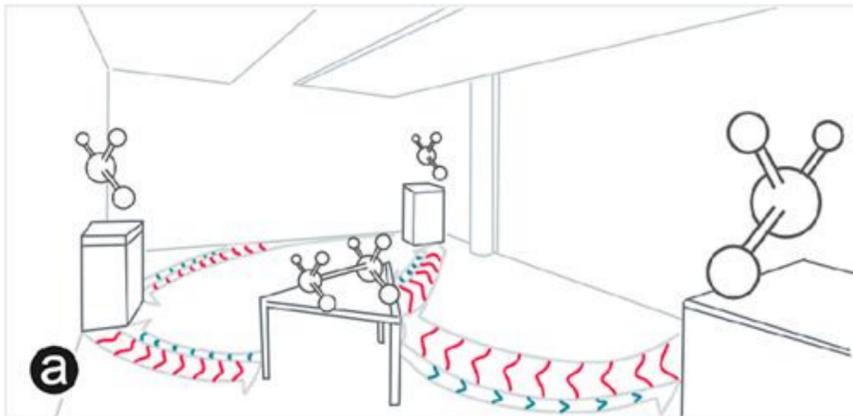
Visualizer



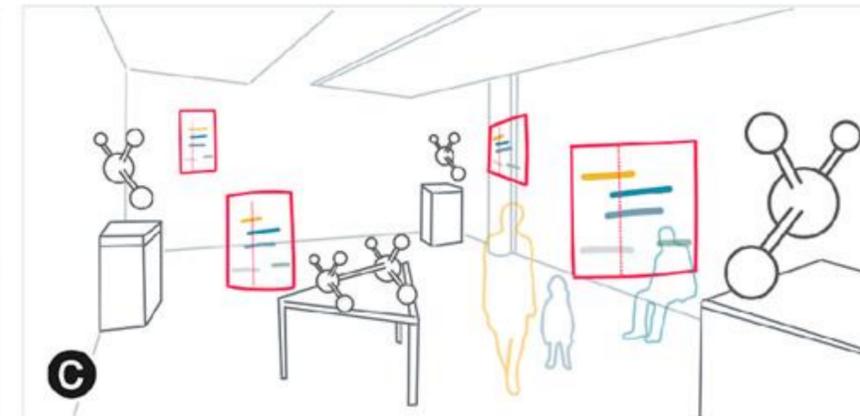
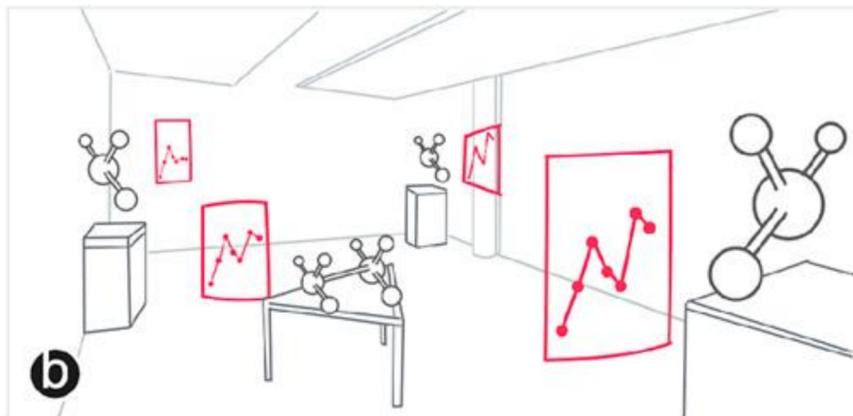
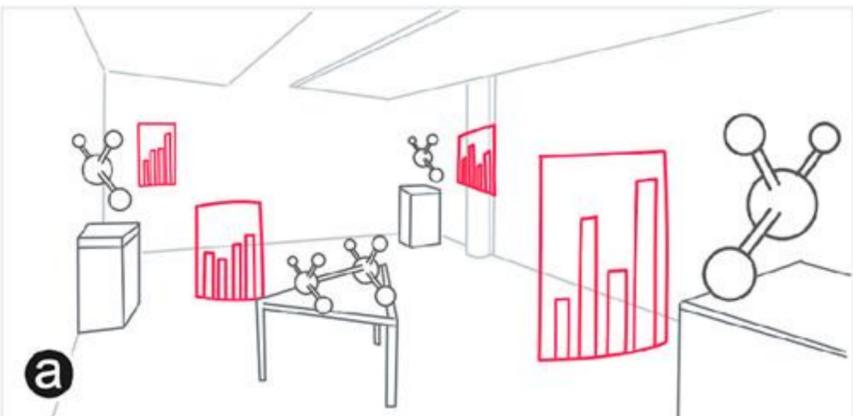
Superimposed Embedded



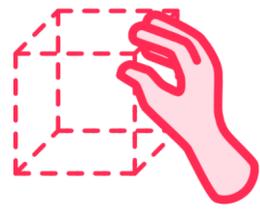
Floor Embedded



Situating InfoVis



Prototype Snapshots



Selector



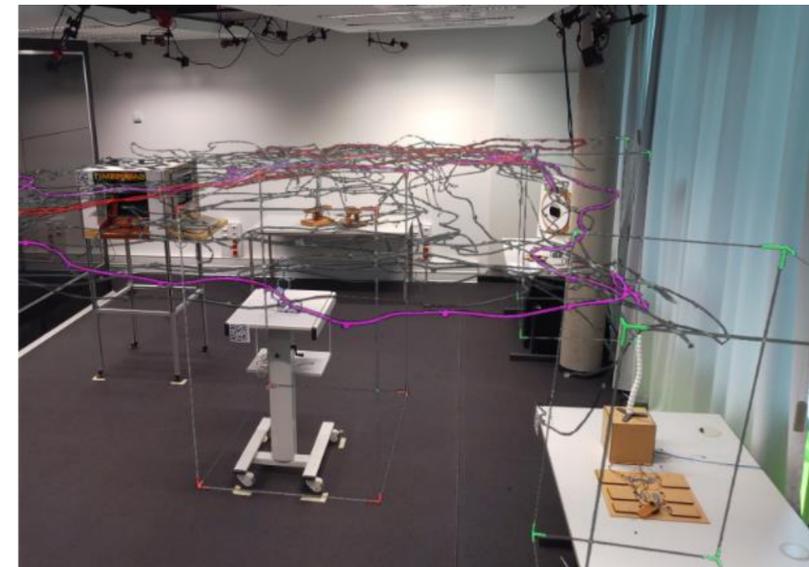
Modification with Body



Filter



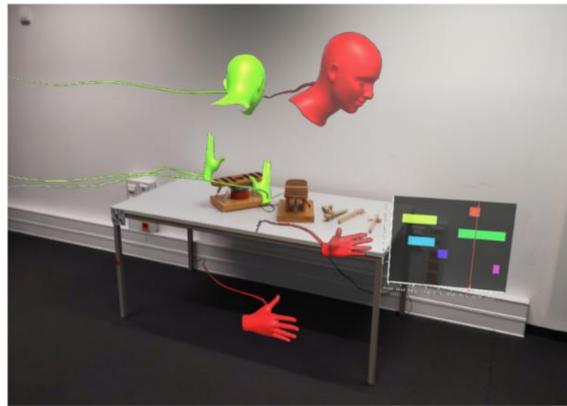
Positive - Data-Level - Filter



Positive - Data-Level - Filter



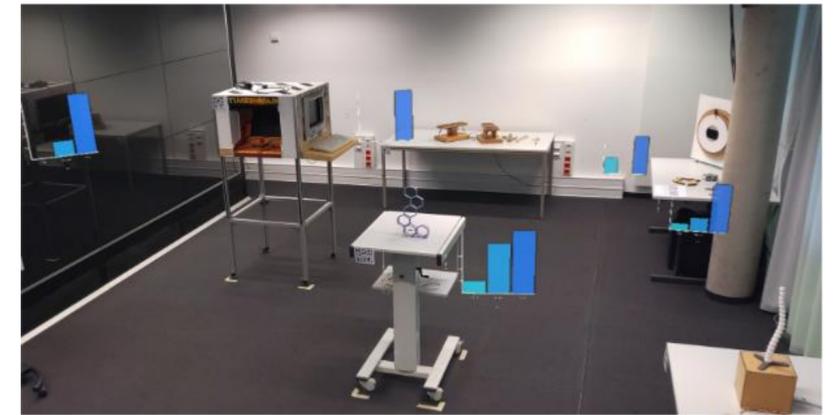
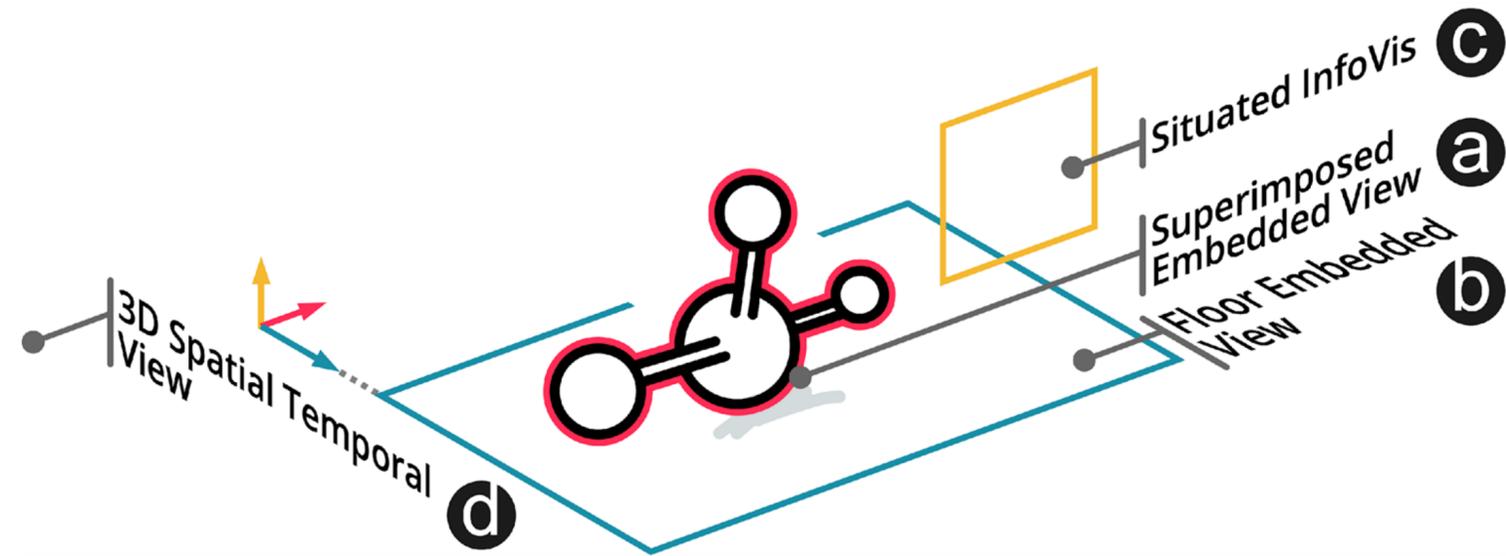
Visualizer



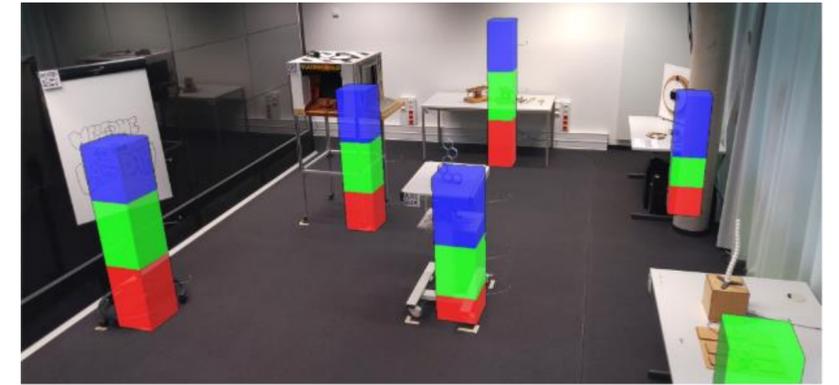
3D Trails + Avatar with Situated Vis



3D Avatar with Trajectory



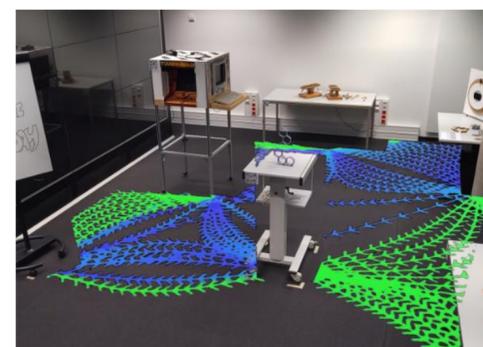
Situating InfoVis



Superimposed Embedded View



Flow View



Sequence View



Pace View



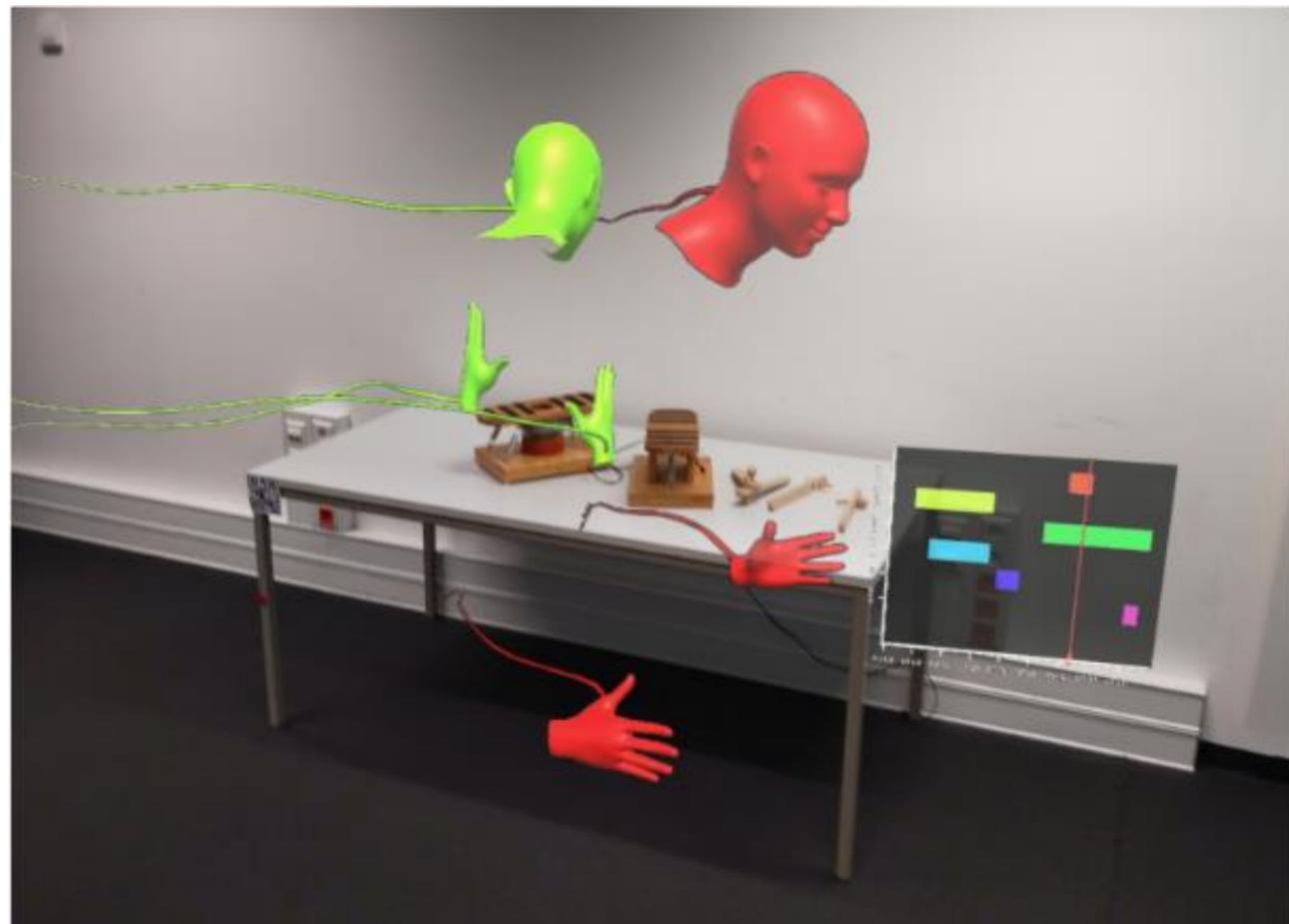
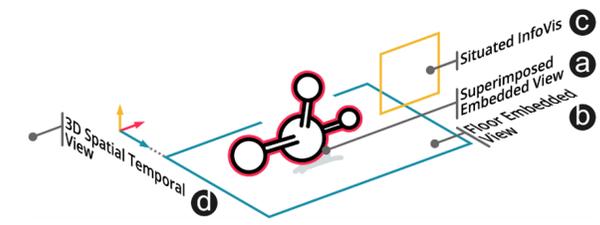
Approaching View



Heatmap View



Visualizer



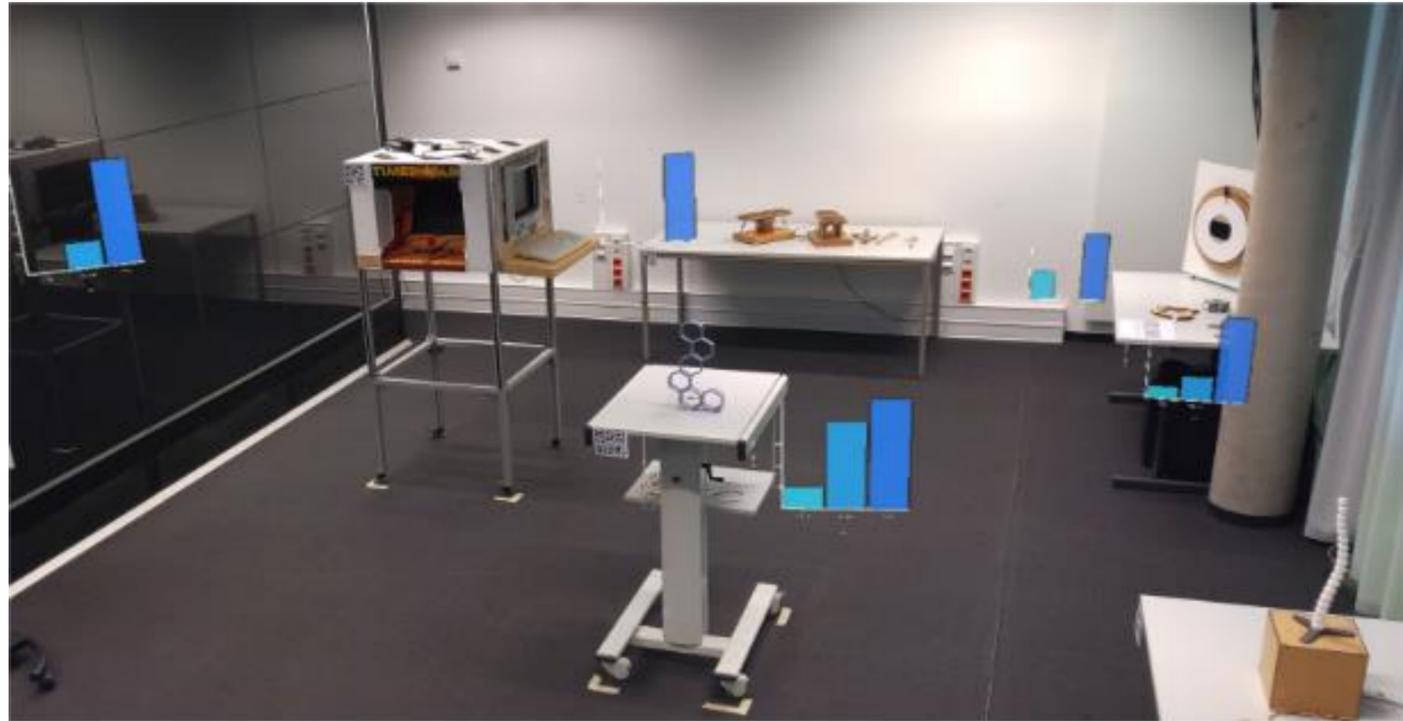
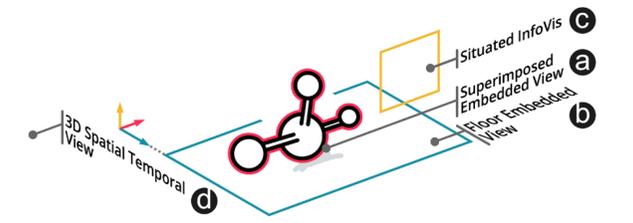
3D Trails + Avatar with Situated Vis



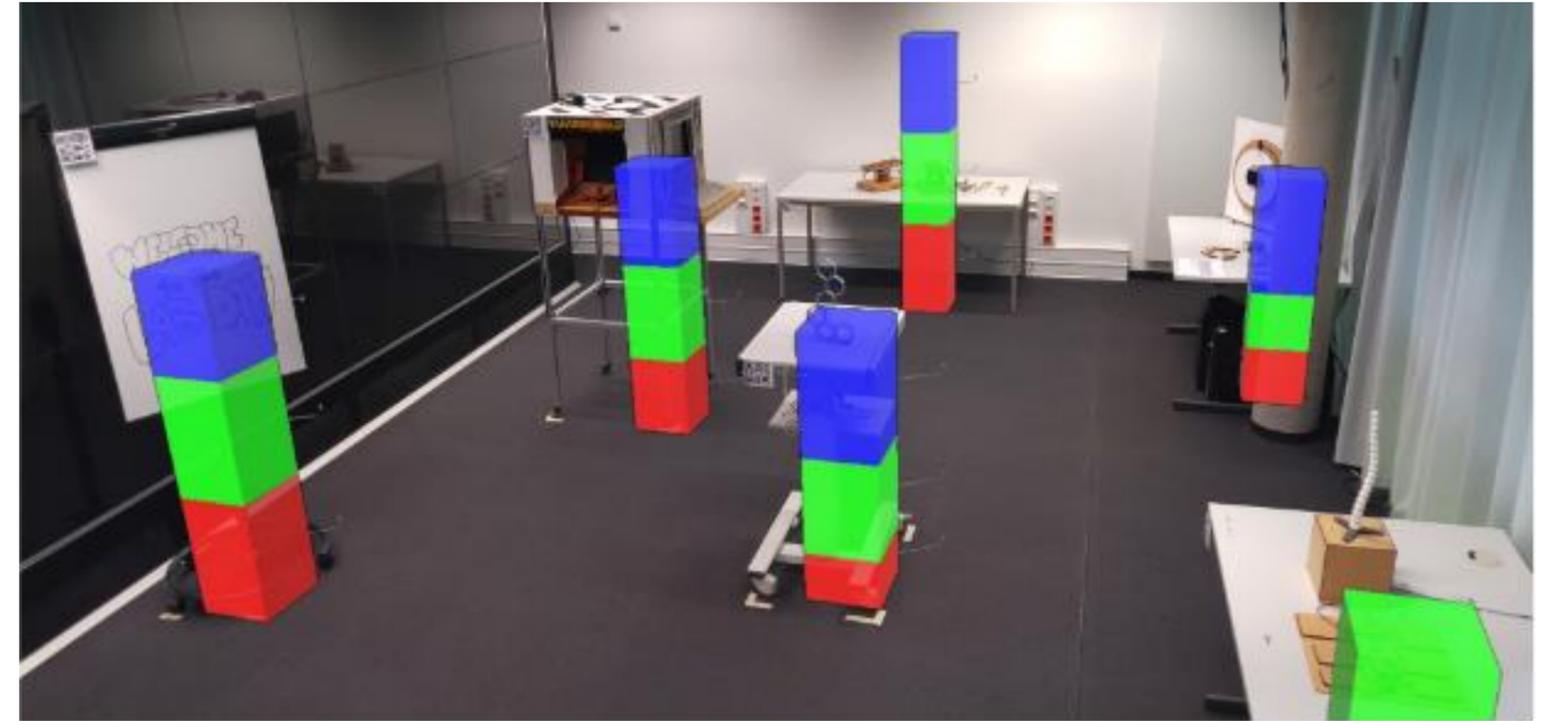
3D Avatar with Trajectory



Visualizer



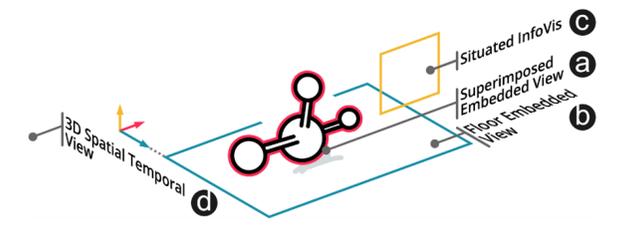
Situated InfoVis



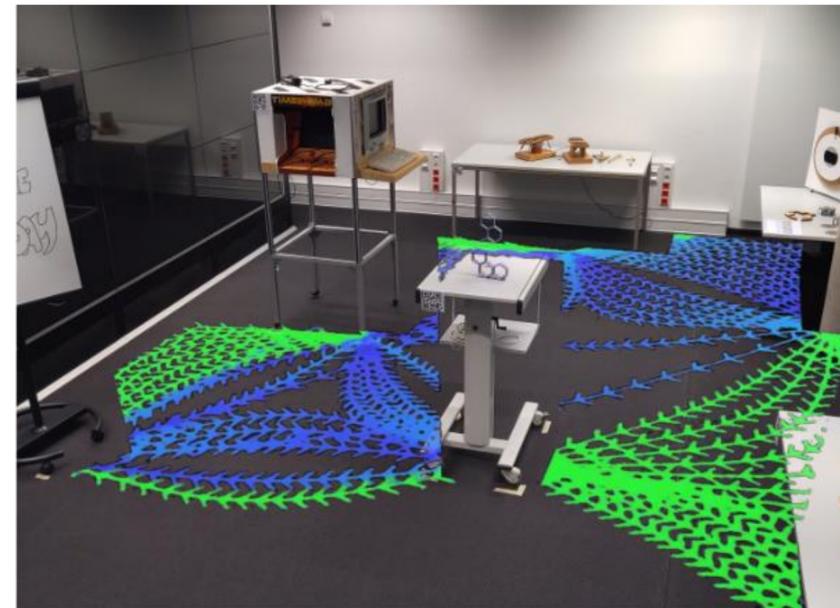
Superimposed Embedded View



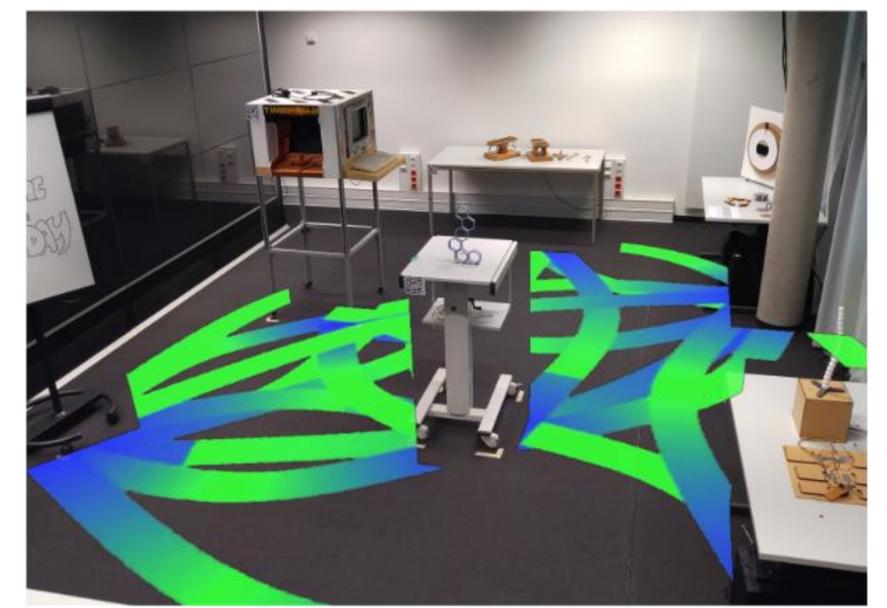
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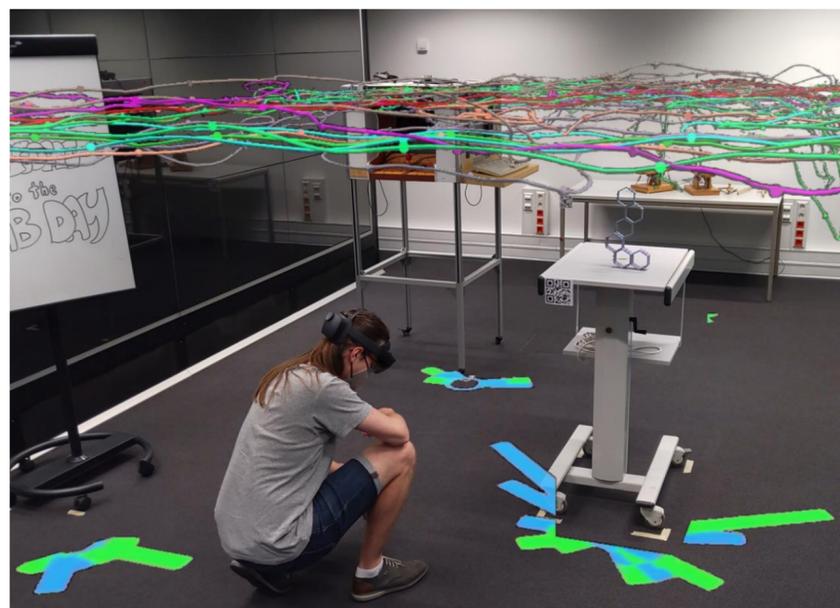
Flow View



Sequence View



Pace View



Approaching View



Heatmap View