Composition challenges for sensor data visualization

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Design a dashboard

Where/When : Define what will be the purpose of the dashboard
What : Select data to be visualize
How : Chose visualization for each group of data
Where/When : Audit the resulting dashboard according to the initial motivation

Collaboration of three domains

Variations

OverTime

2D

Scalar

1D

Dashboard designer

Data Manager

Where

When

Challenges

Isolation

Evolution

Integrity

Before

OverTime

Domain Evolution

Proportion

σ(t = t, speed)

π (speed × lat × long × time)

σ(t = t, speed)

π (lat × long)

local consistency

local consistency

local consistency

Validation