

Visualization Process

An overview of Vis Pipelines

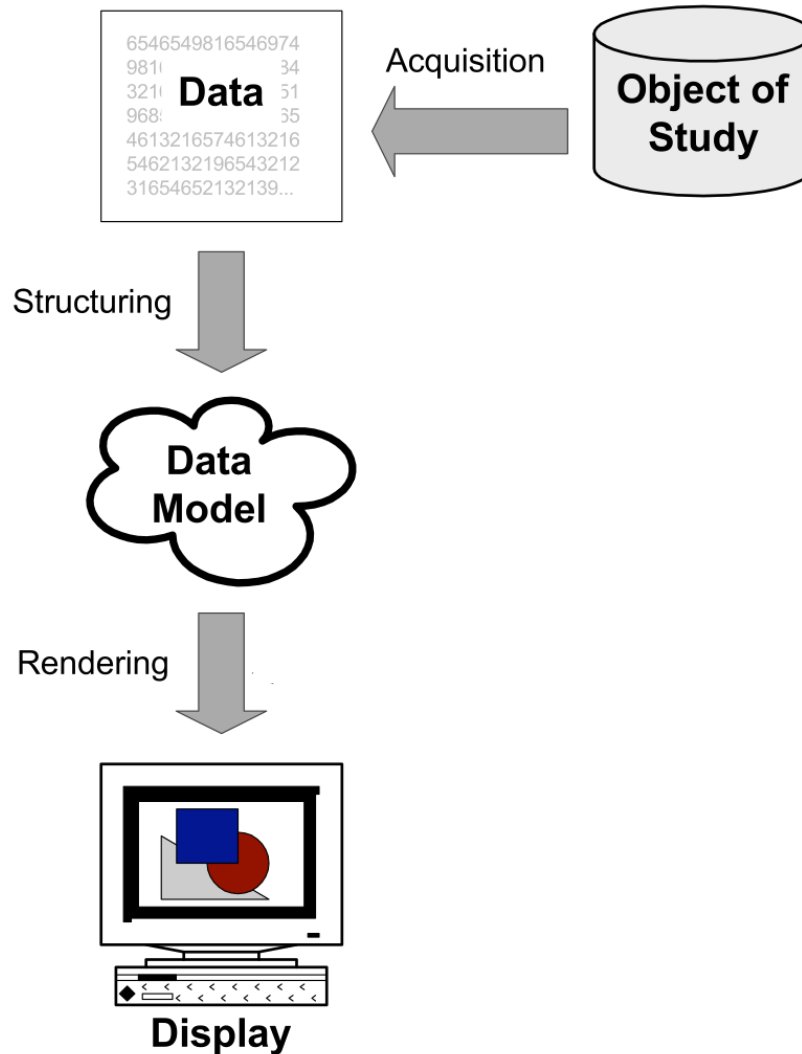
Cmpt 767

Steven Bergner

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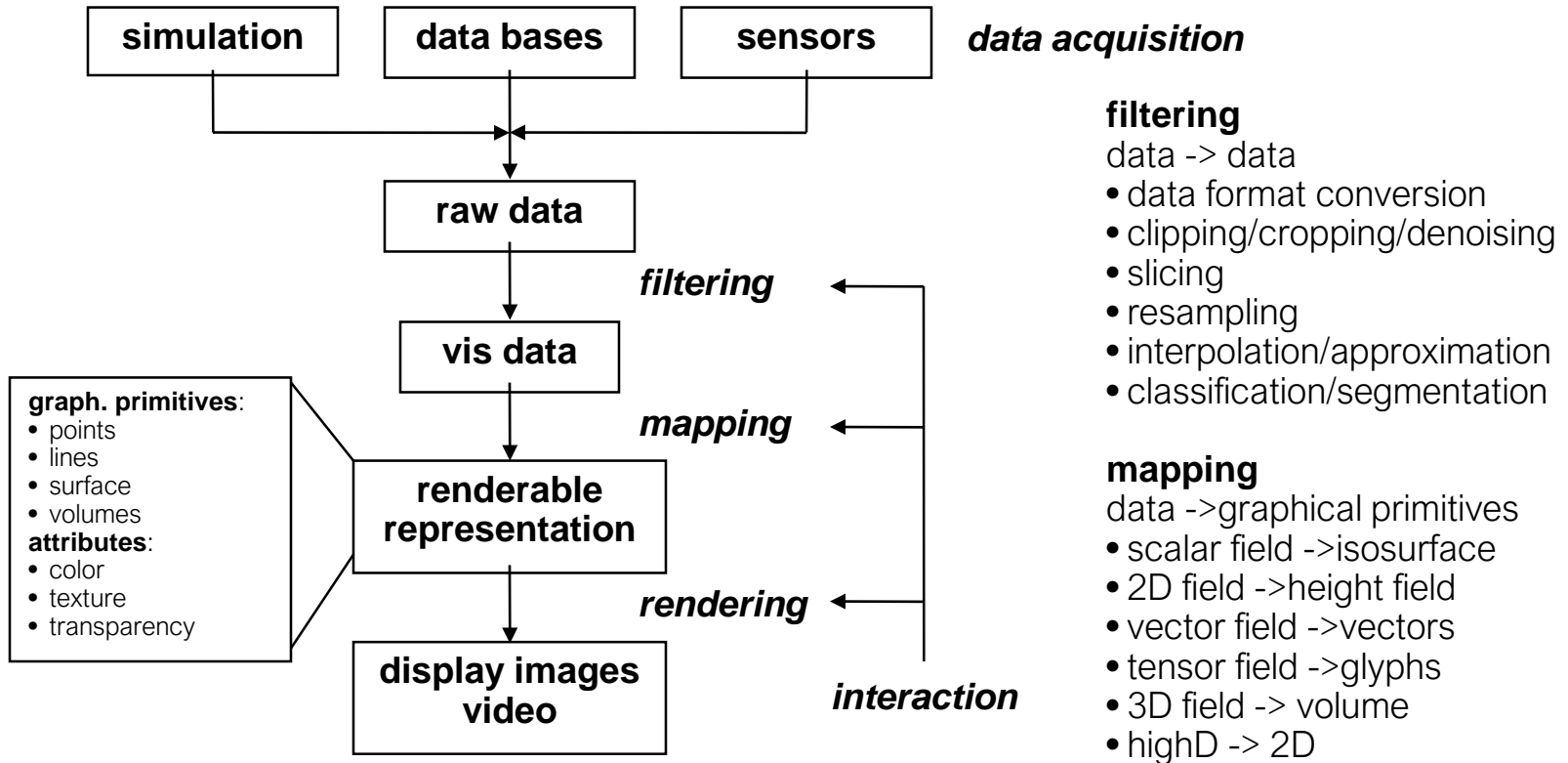
[Weiskopf/Machiraju/Möller]

Visualization Process



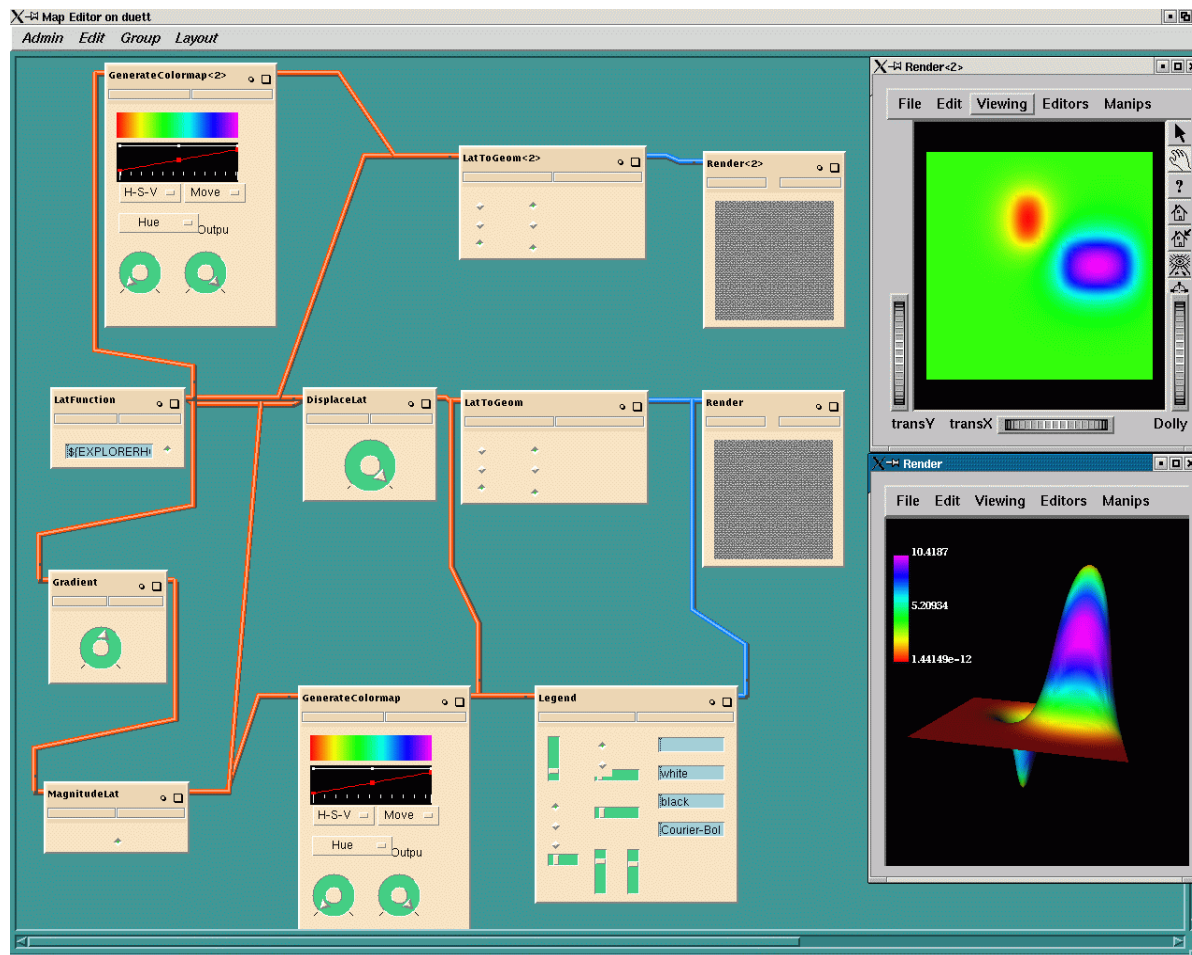
Visualization pipeline

Visualization Pipeline



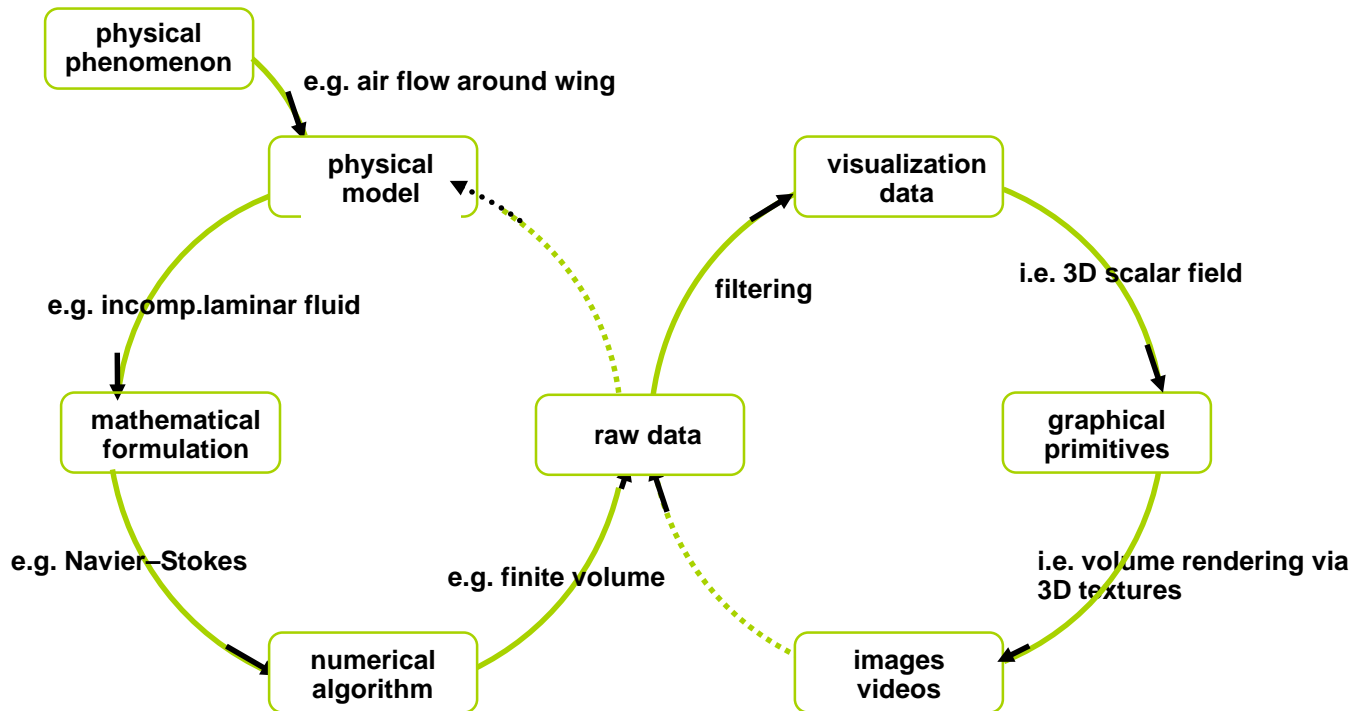
Visualization Pipeline

- Example -- IRIS Explorer



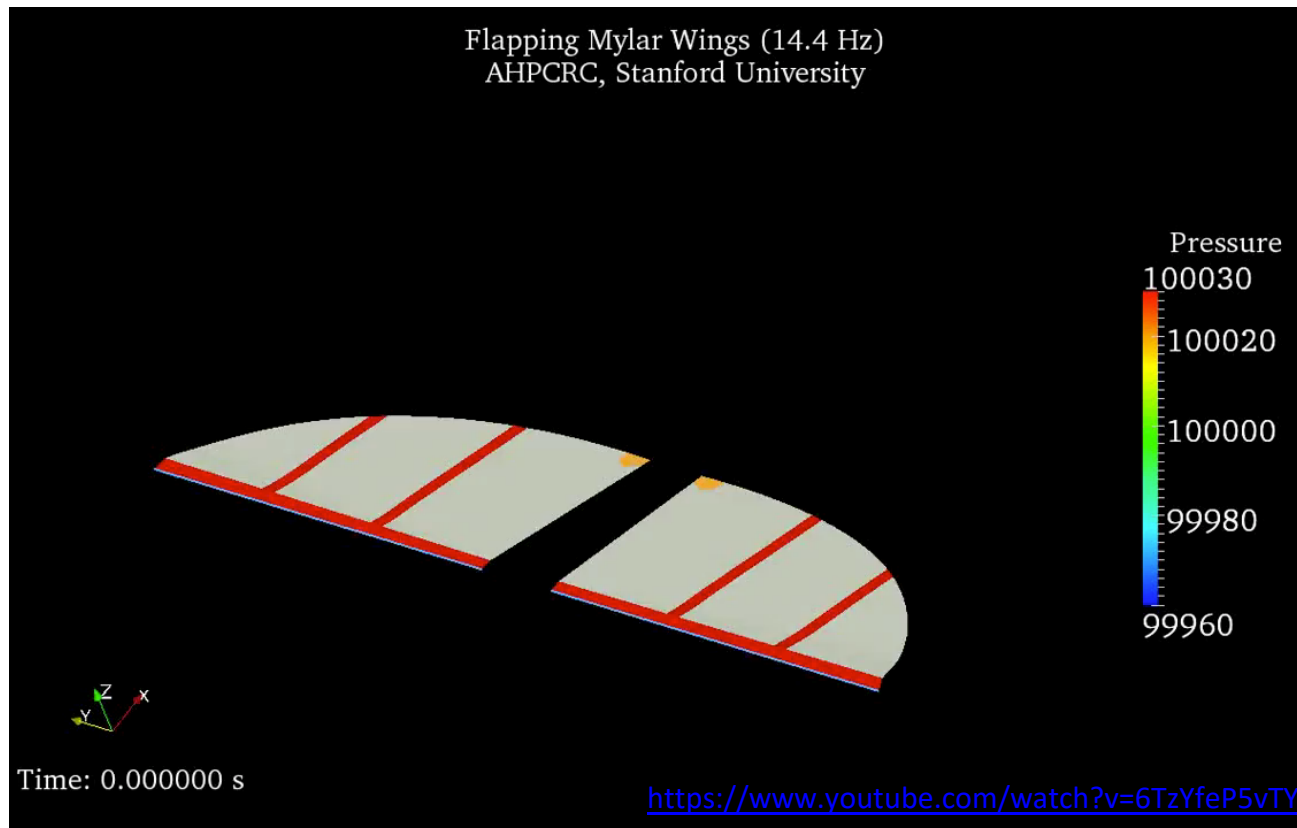
Visualization Pipeline

- Example: simulation of the flow within a fluid around a wing



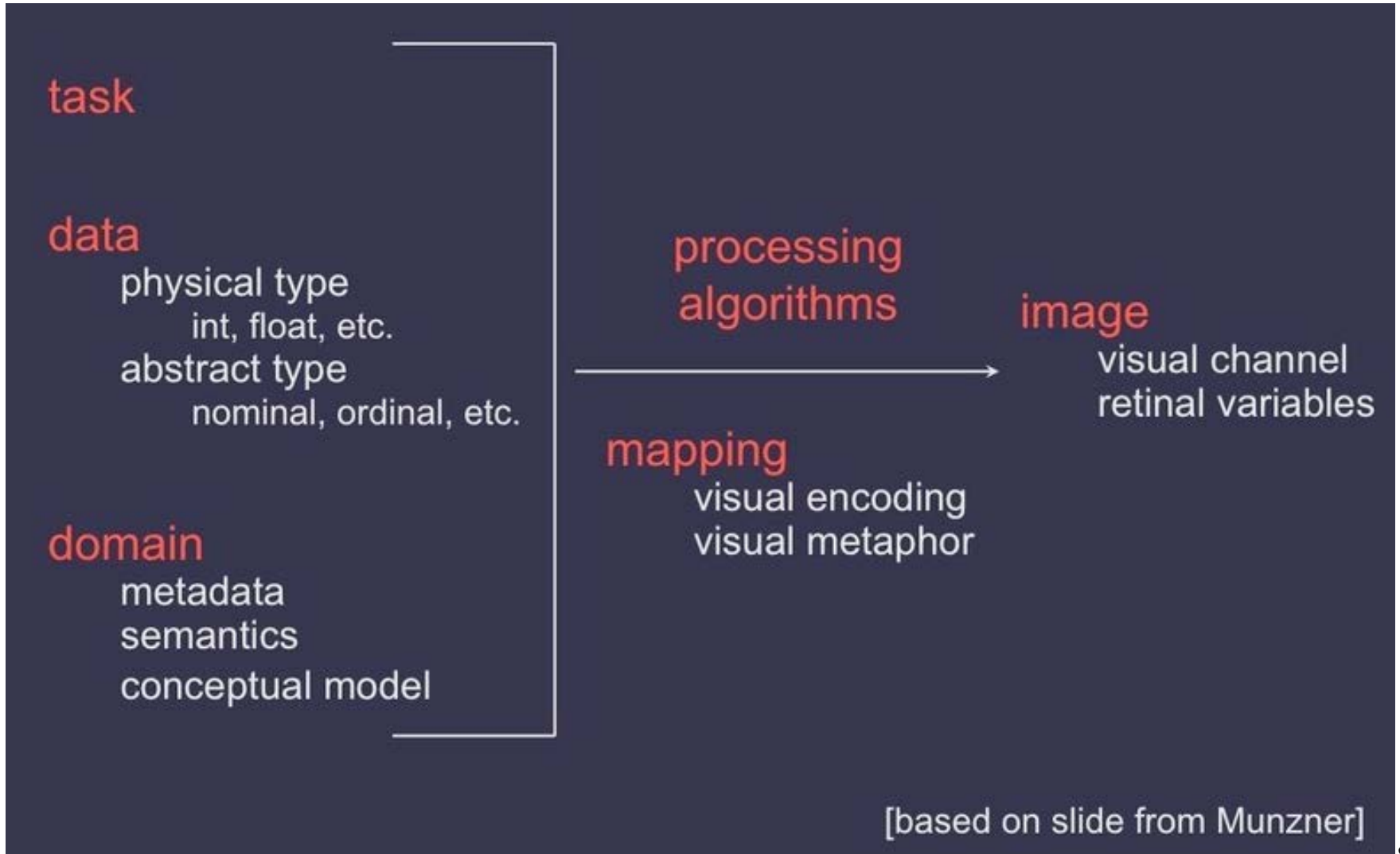
Visualization Pipeline

- Example: simulation of the flow within a fluid around a wing



Pipeline Model

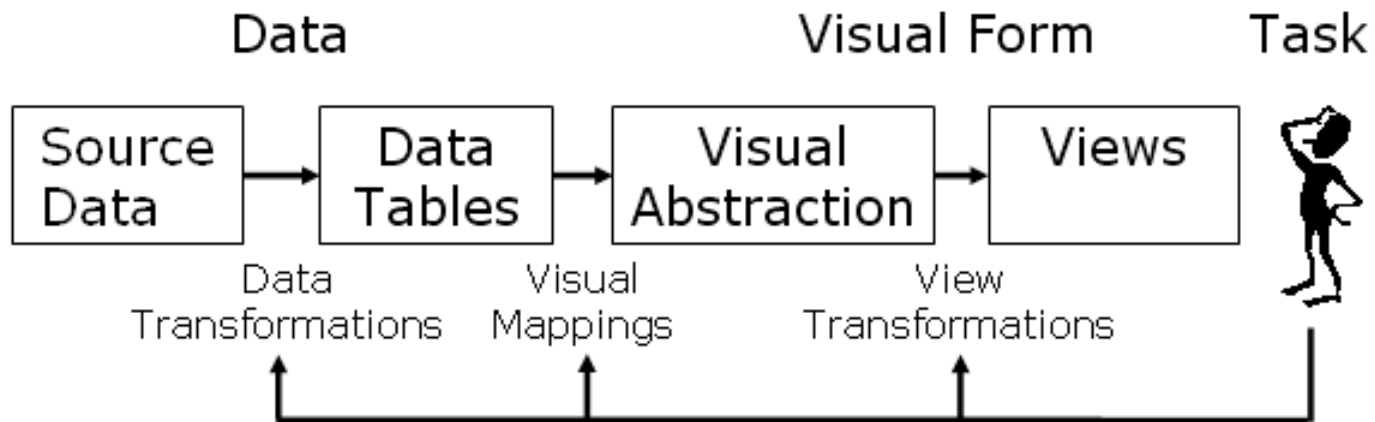
[Maneesh Agrawala]
[Tamara Munzner]



[based on slide from Munzner]

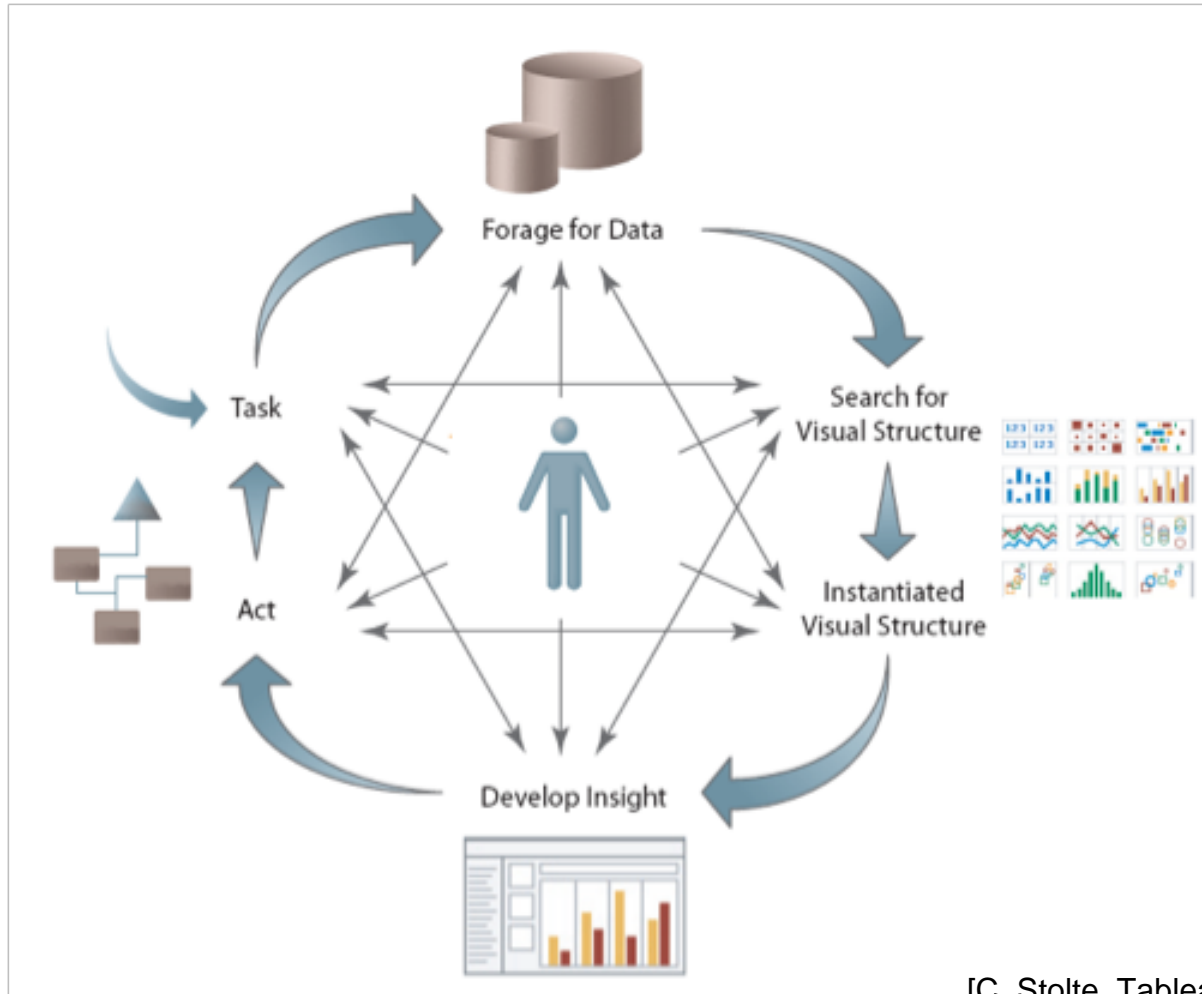
Pipeline Model

[J. Heer, Prefuse]



Cyclical Model

[C. Stolte, Tableau]



[C. Stolte, Tableau]

Cyclical Model

[J. van Wijk, The Value of Visualization]

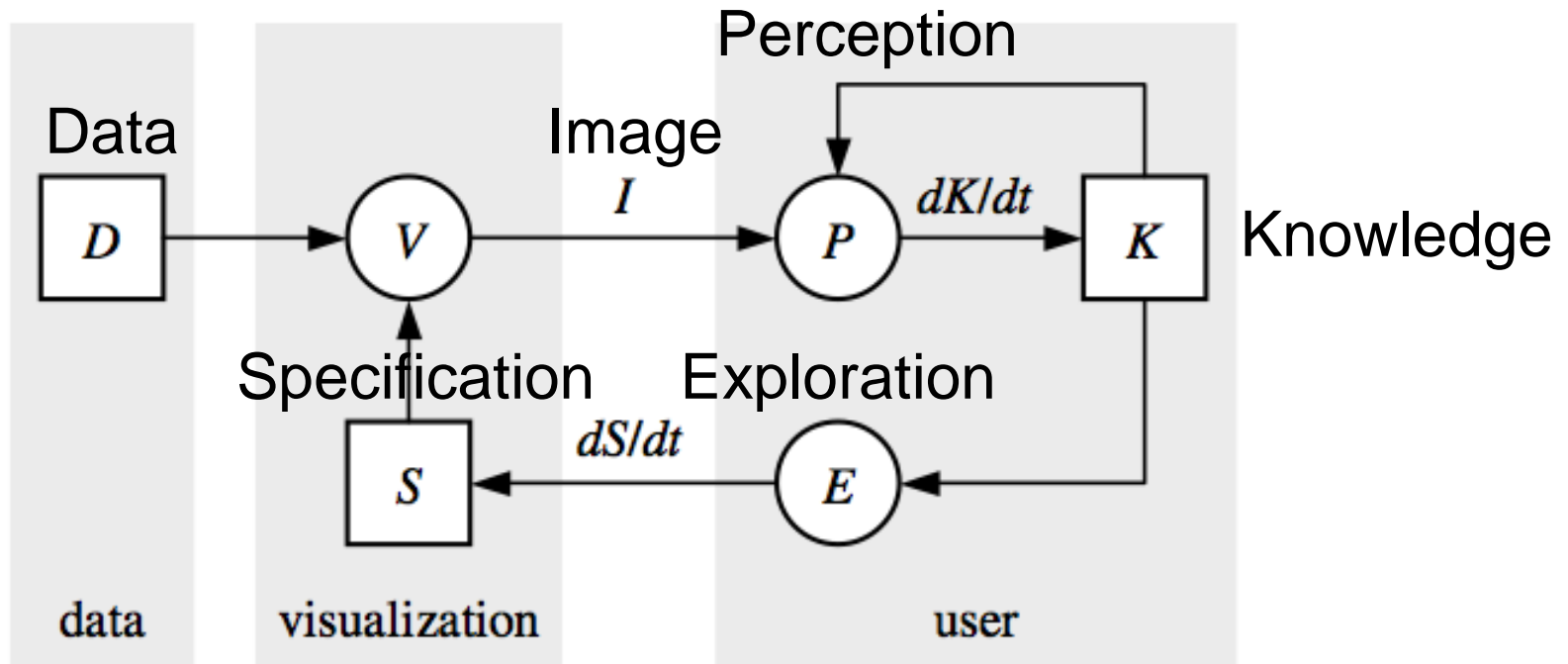
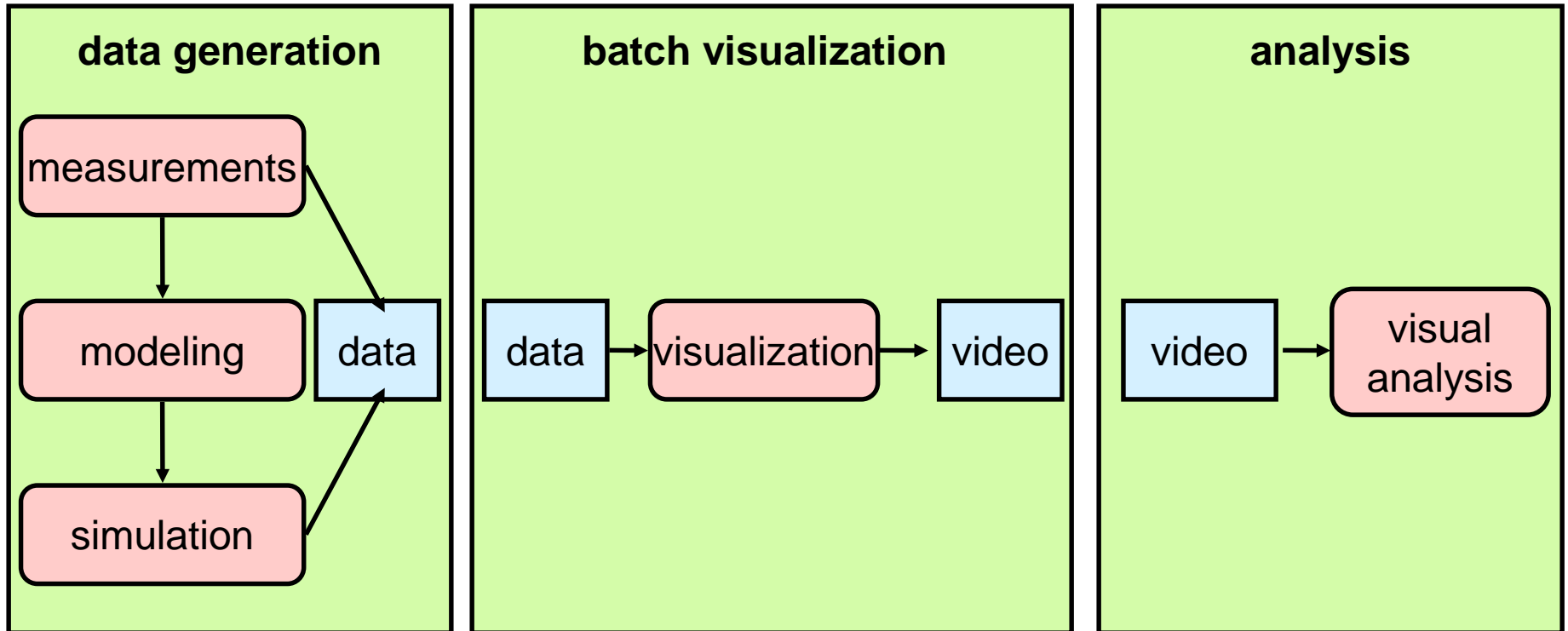


Figure 1: A simple model of visualization

Scenarios of Visualization In context of different tasks

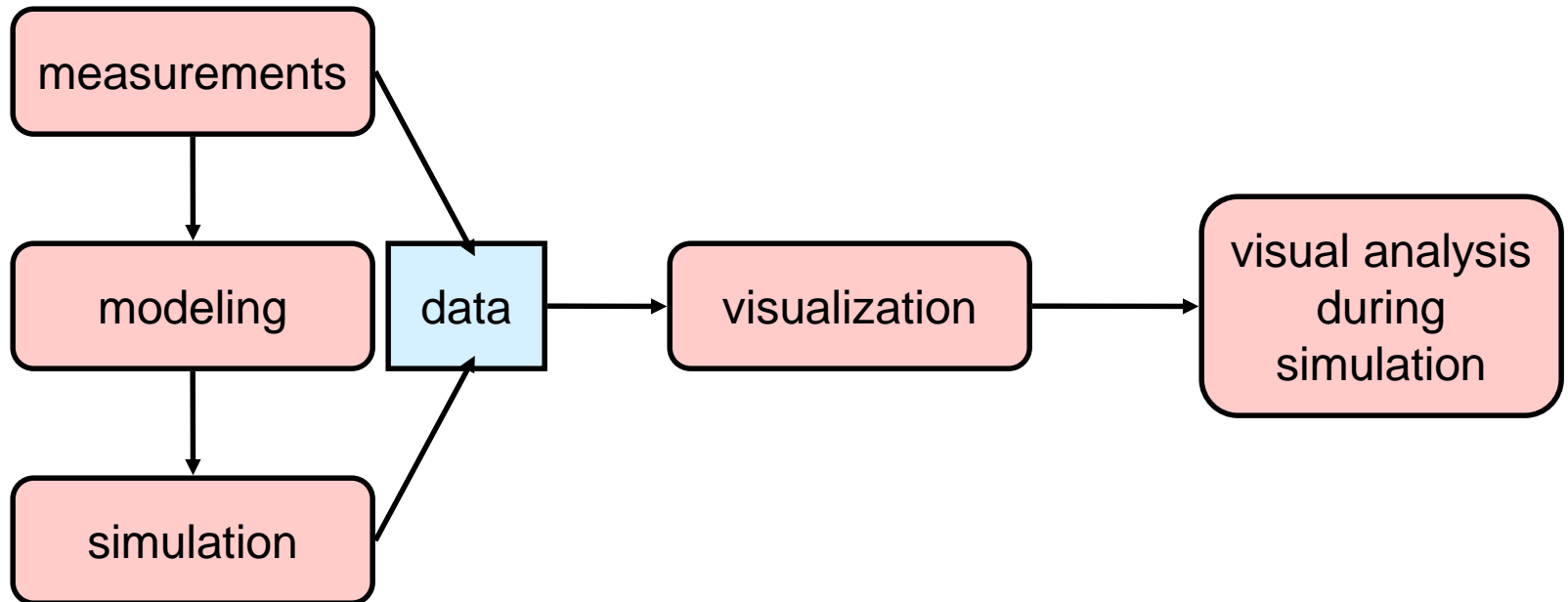
Scenarios

- Video/movie mode



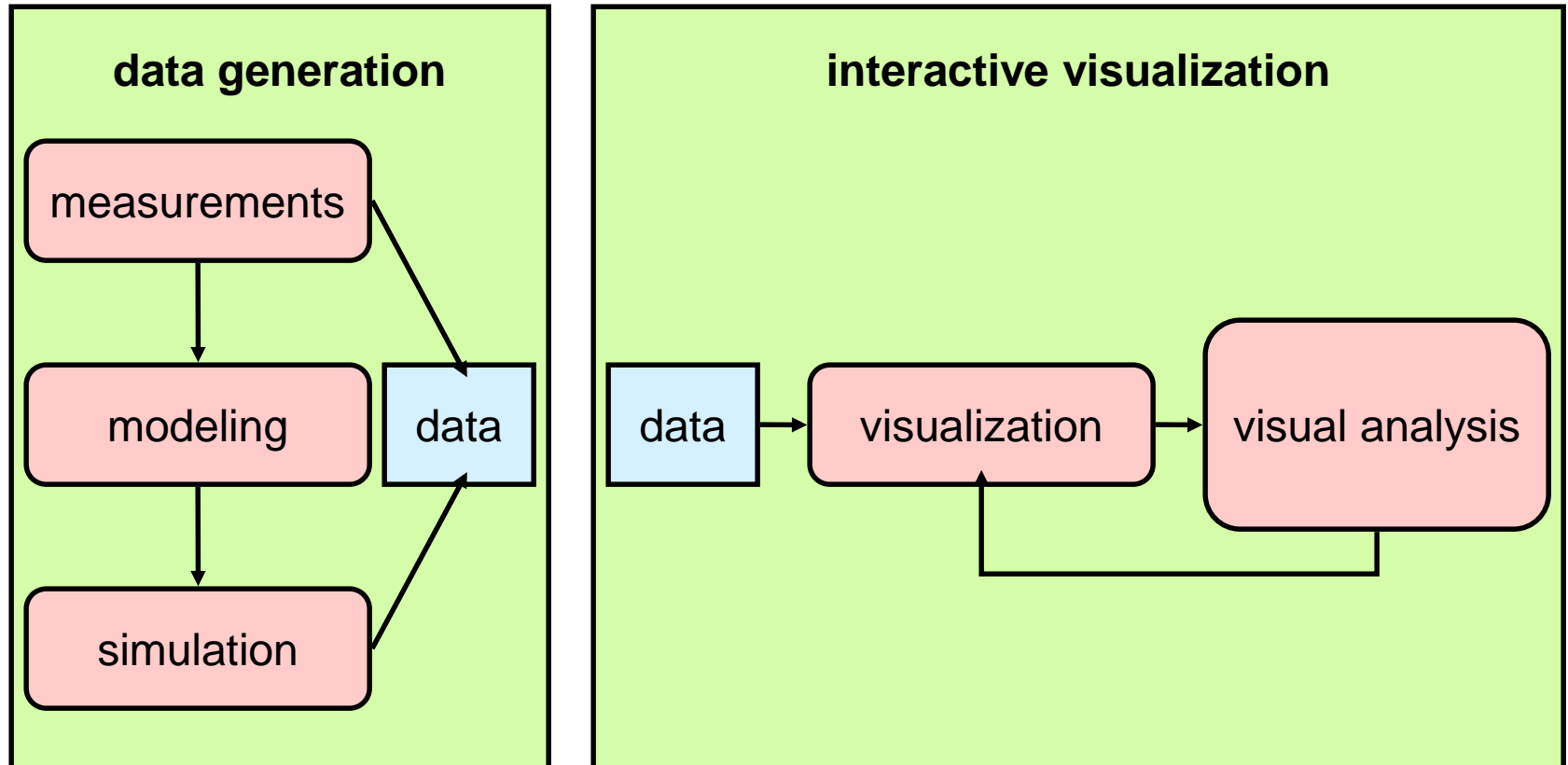
Scenarios

- Tracking



Scenarios

- Interactive post processing / visualization



Scenarios

- Interactive steering / computational

