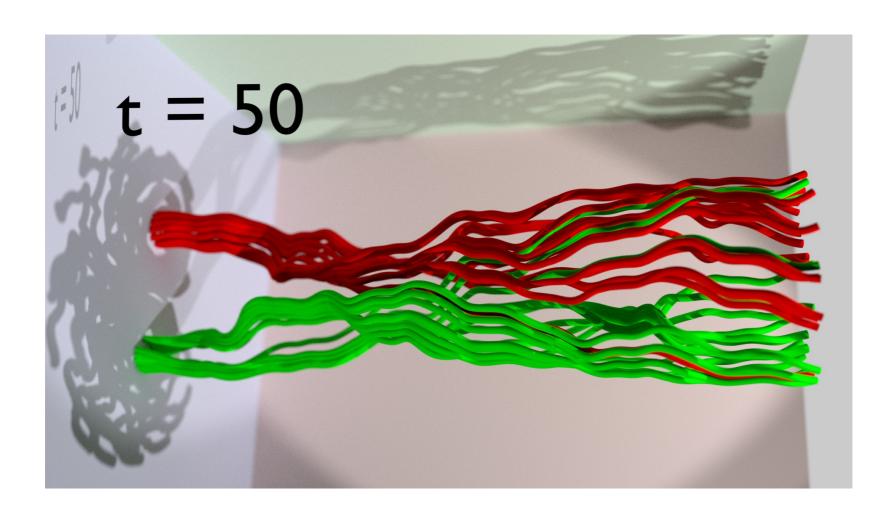
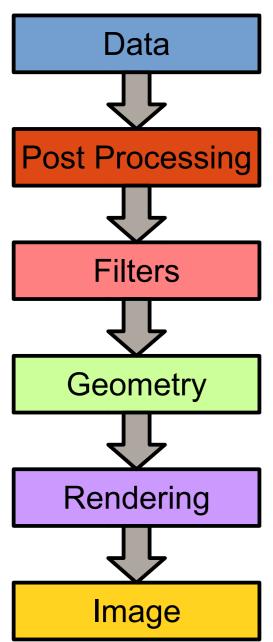
#### **Simon Candelaresi**





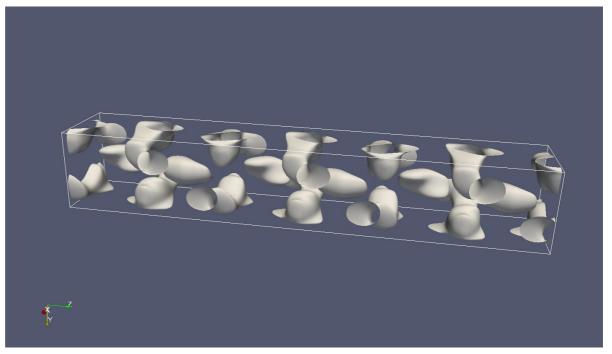
# Data to Image



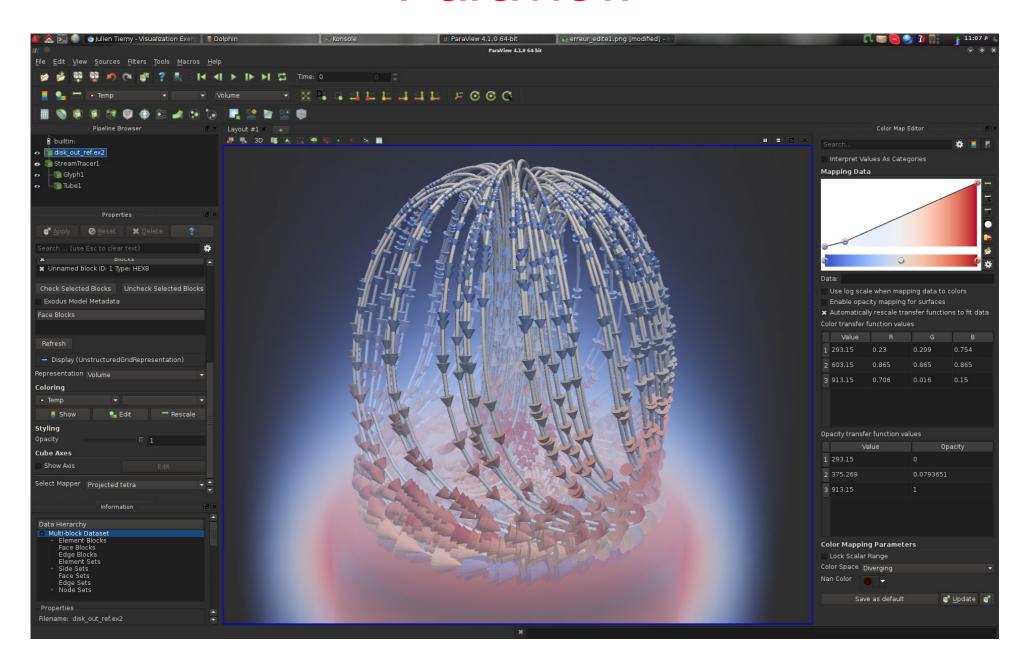
01110001110101001101 (bfield.vtk)

$$B^2 = \vec{B} \cdot \vec{B}$$

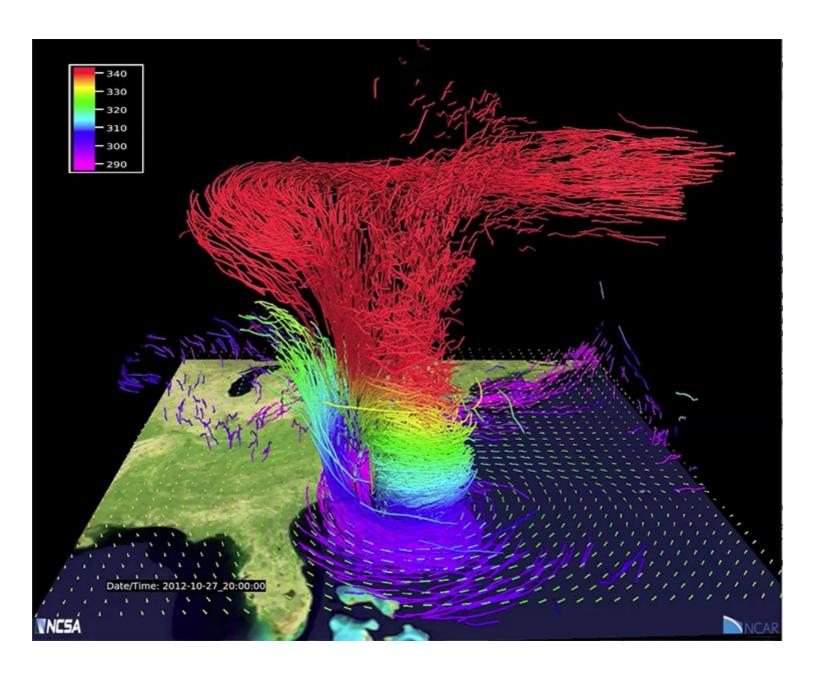
$$B^2 = [0.1, 0.2, 0.3]$$



#### **Paraview**



# Vapor



#### **Pros and Cons**



Read many data formats.



Read geometry data.



Most common filters.



Limited and slow post-processing.



Poor animation options.



Unrealistic look.



Very limited light/shading options.

# What Makes a Realistic Look?



# Blender



7

# Blender



### Blender



#### **Pros and Cons**



Great and realistic graphics.



Realistic shaders, materials and lighting.



Easy and powerful animations.



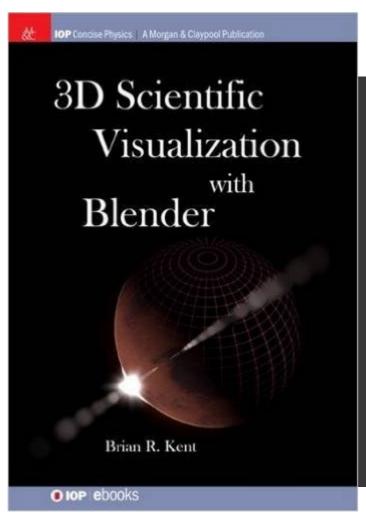
No data import (except geometry and lights and materials).

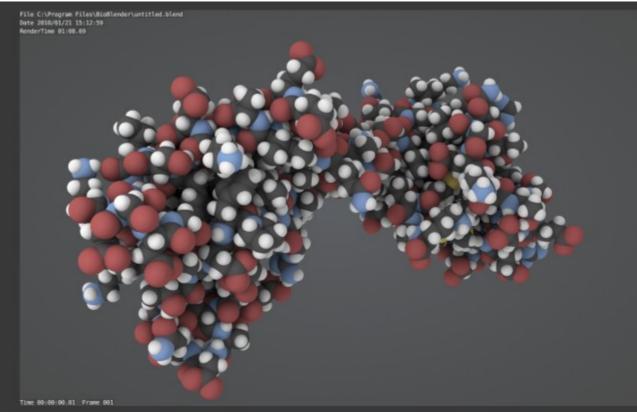


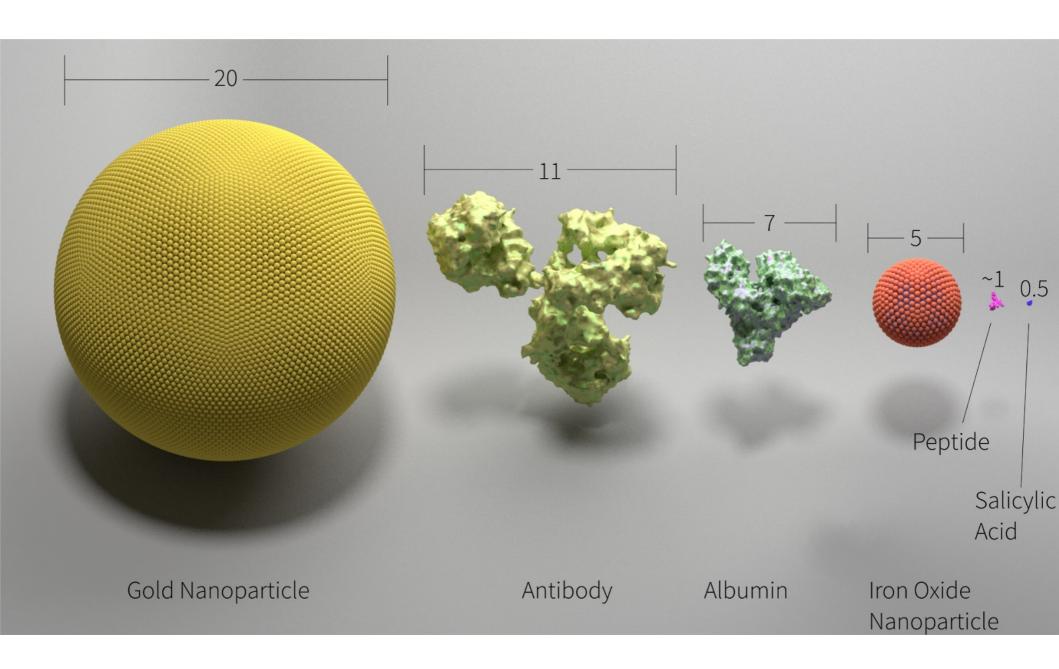
No filters.

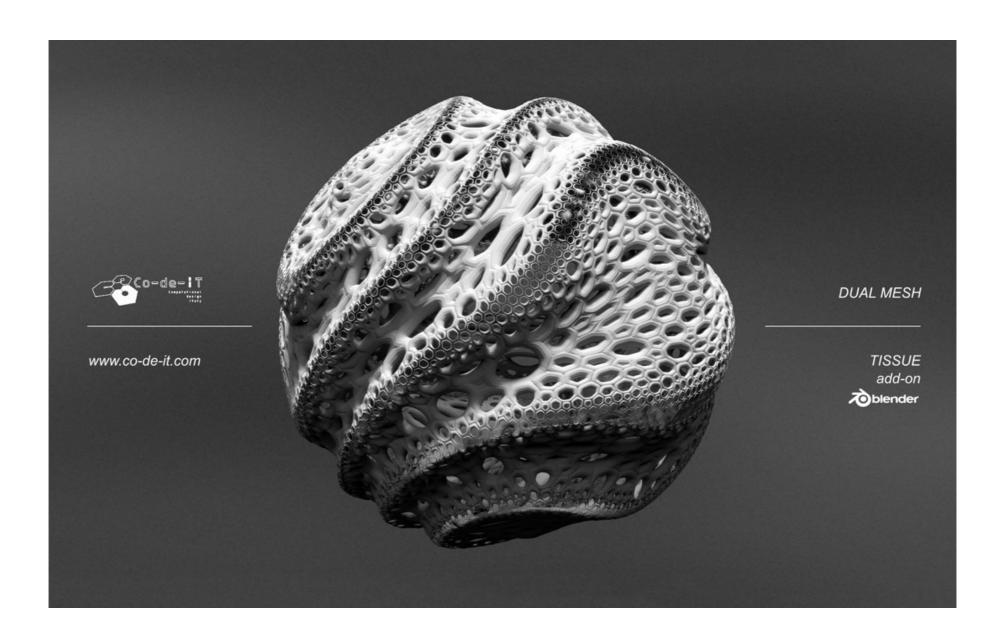


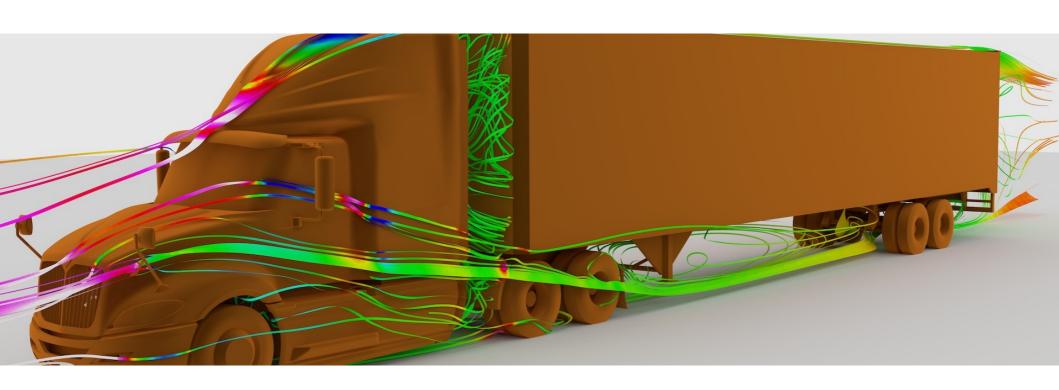
No postprocessing.

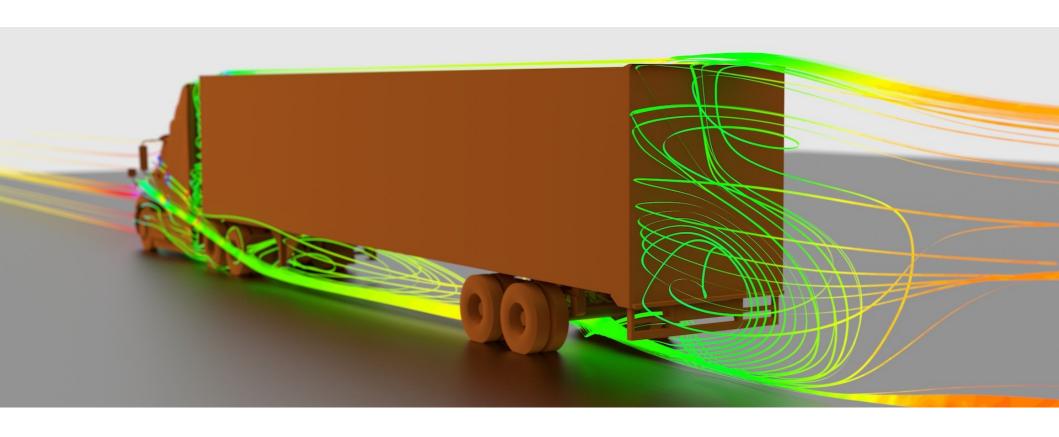


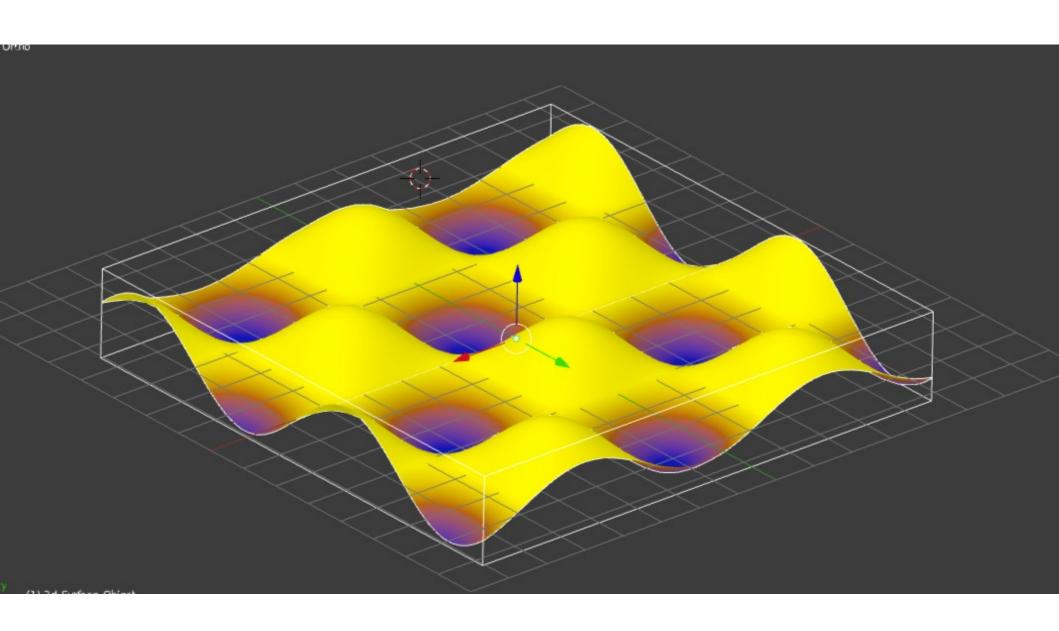


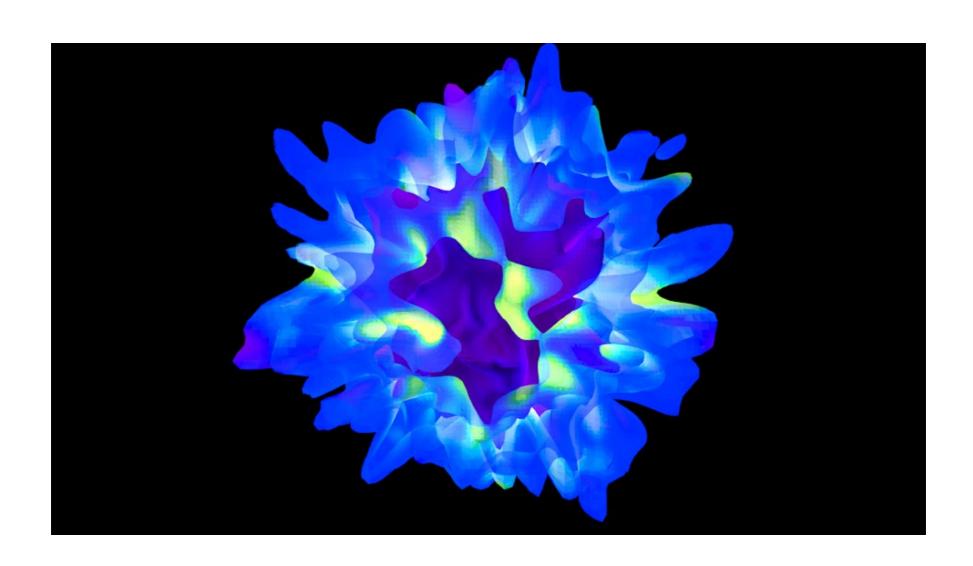


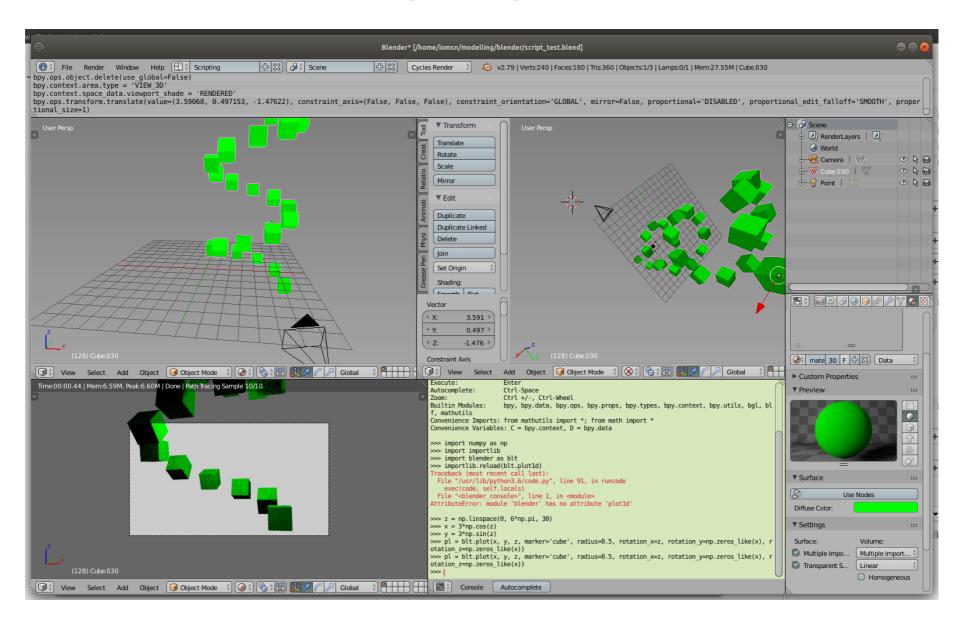


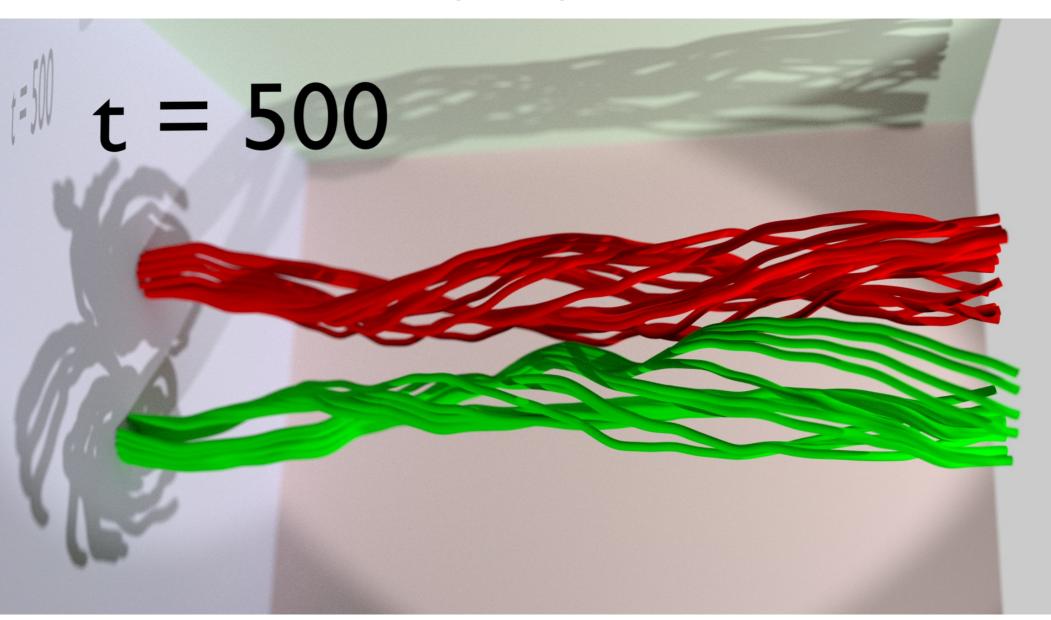














Quick and intuitively to use.



Everything possible through console.



Object oriented.



Group plot geometry into one blender object.

#### Outlook

- Axis and bounding boxes.
- Labels and annotations (LaTeX).
- Automatic camera and lights.
- Volume rendering.
- Iso surfaces.
- Streamlines
- Time integration.