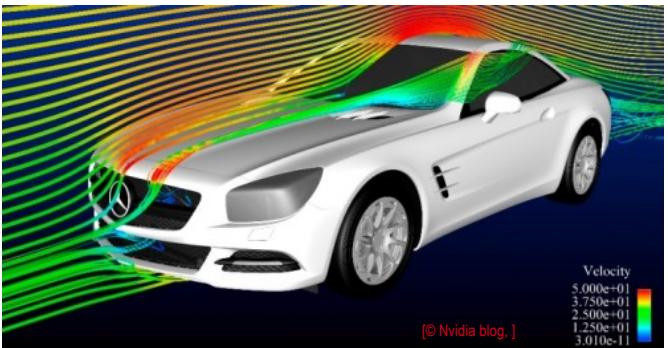


Interactive GPU-based Flow Simulation

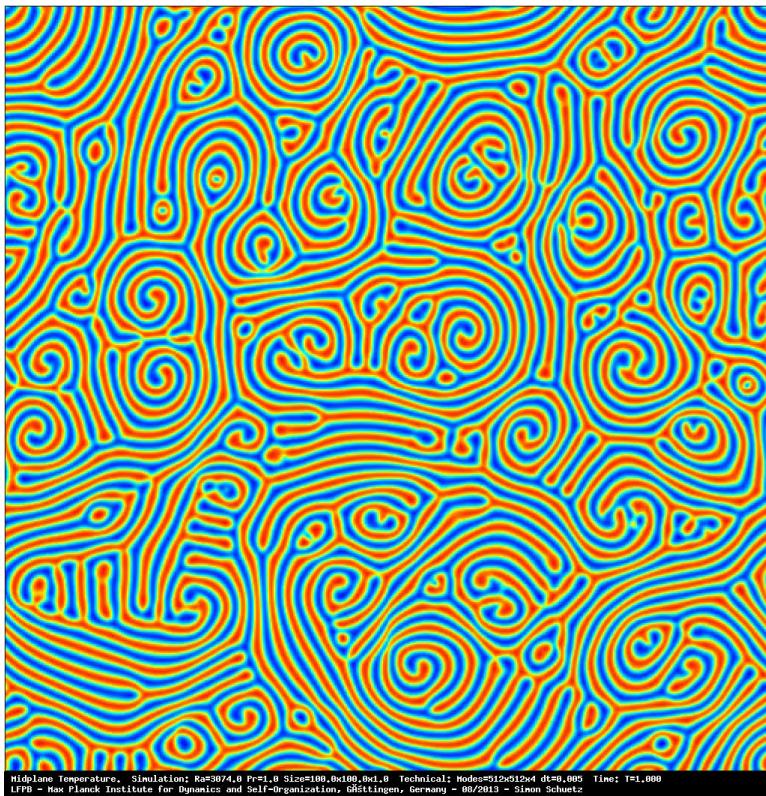
Tobias M. Schneider, Simon Schütz
EPFL STI IGM ECPS

GPU-based Flow Simulation - Project

Dream: Interactive flow simulation for design



Dynamics (top view)

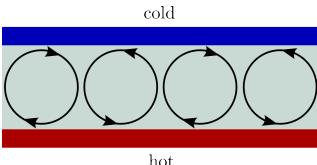


Needed:

- fast computers
- interactive input



Simpler system: Convection between two plates



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GPU-based Flow Simulation – Tasks and Requirements

- Configure Drivers to compile/run CUDA/C++ code
 - Modify **CFD code** for interactive input
 - Design **Graphical Output**
 - **Touchscreen** for input?

