Volcano Dilip Many, Pascal Goffin, Fabio Zünd 2007 Dilip Many, Pascal Goffin, Fabio Zünd 2007

LAVA

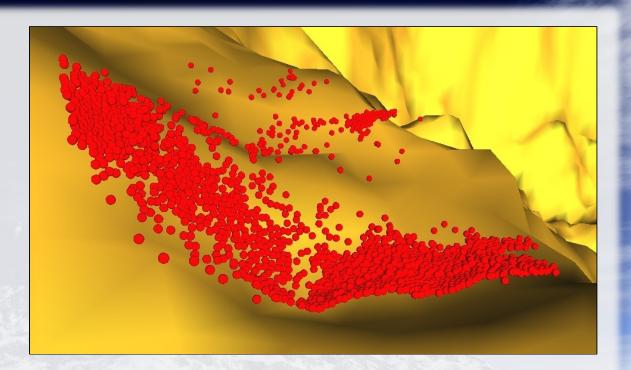
full SPH system

with:

- pressure force
- viscosity force
- gravity force
- terrain collision handling

problems encountered:

- density computation
- parameter tuning
- graphical representation



Volcano

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SMOKE

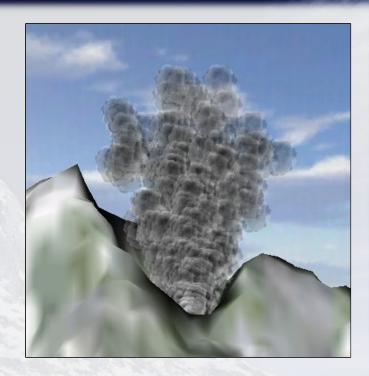
- based on a particle system
- leapfrog integration scheme used

with:

- random velocity
- random angle between 65° and 115°
- random number of particles per timestep
- particles motion influenced by gravity
- particles have a lifetime
- particle removed from the system after a given time or position

major problem:

- transparency



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RENDER, SKYBOX

Skybox:

- Terragen
- Terrain
- Textures
- Camera
- Lights

Renderer:

- SoOffscreenRenderer
- QuickTime Pro

