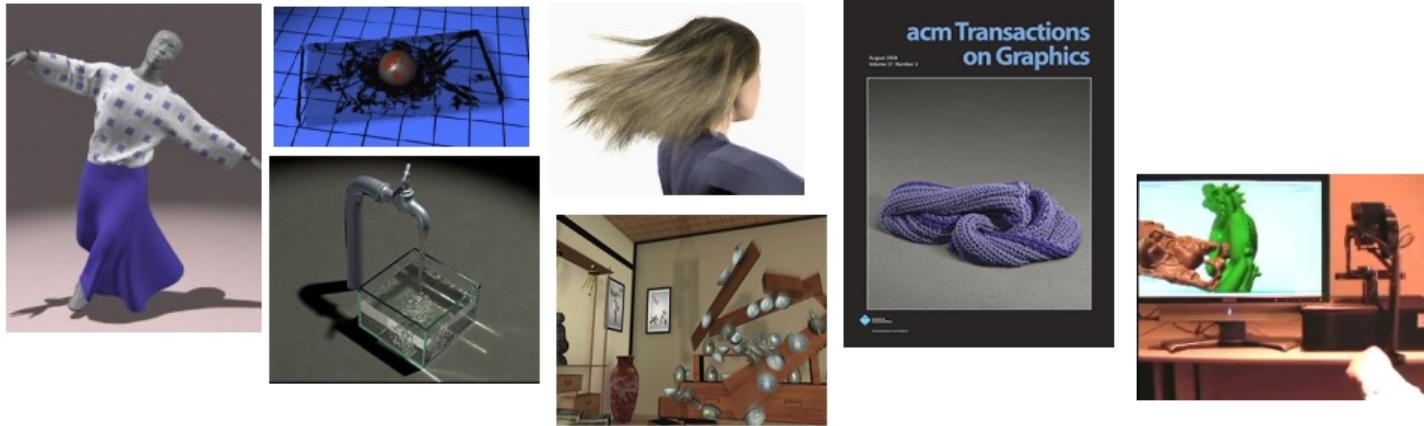


Where Next?

WebGL

Physically Based Modeling



Starting point:

- <https://www.cs.cmu.edu/~baraff/sigcourse/>

Inspiration:

- <http://andrew.wang-hoyer.com/experiments/cloth/>

- <https://youtu.be/v1gz6CPYYJg>

Physically Based Sound Synthesis



Starting Point:

- <http://www.cs.cornell.edu/projects/Sound/>
- <http://graphics.stanford.edu/courses/sound/>
- <https://youtu.be/wHwzRZColMc>

Inspiration:

- <https://youtu.be/dMUHp8i6E5E>
- <https://www.youtube.com/watch?v=rskdLEl05KI>

Image from: <http://graphics.berkeley.edu/papers/Obrien-SSR-2002-07/>

Fluid Simulation



Starting point:

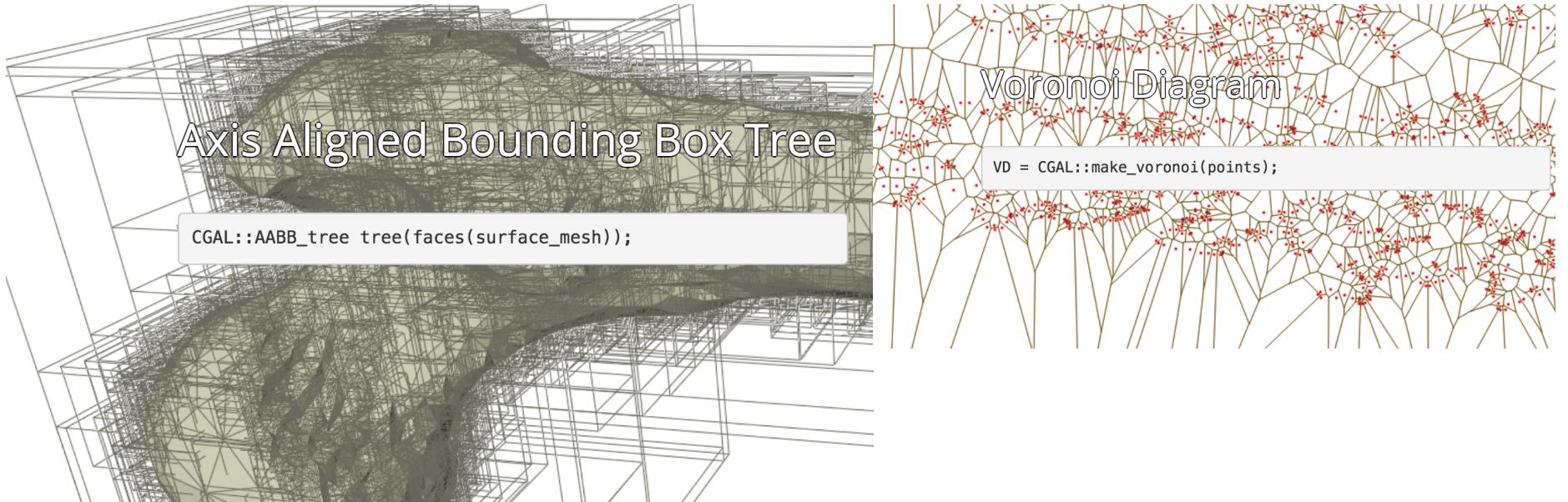
- <https://www.cs.ubc.ca/~rbridson/fluidsimulation/>

Inspiration:

- <https://youtu.be/Yd4blFeRTEw>

- <https://www.youtube.com/watch?v=cUWDeDRet4c>

Computational Geometry



Starting point:

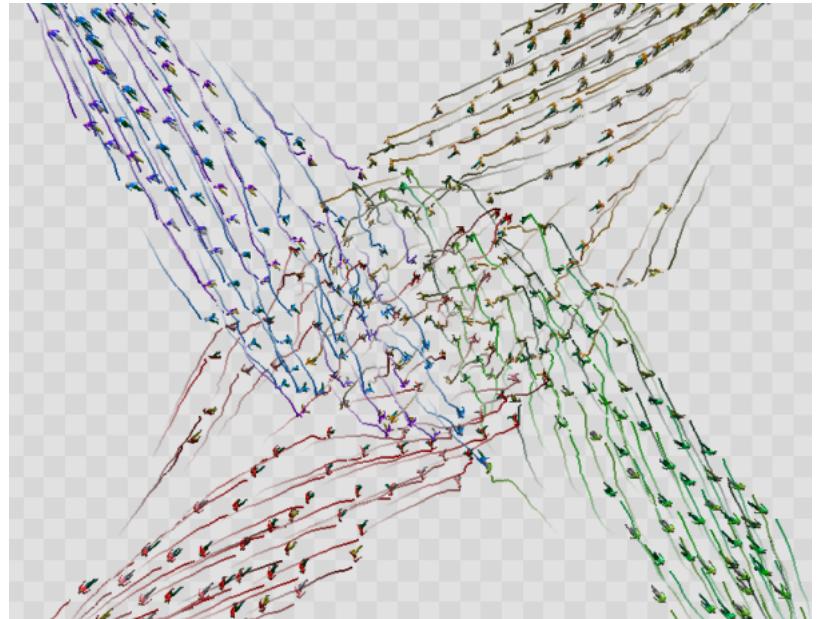
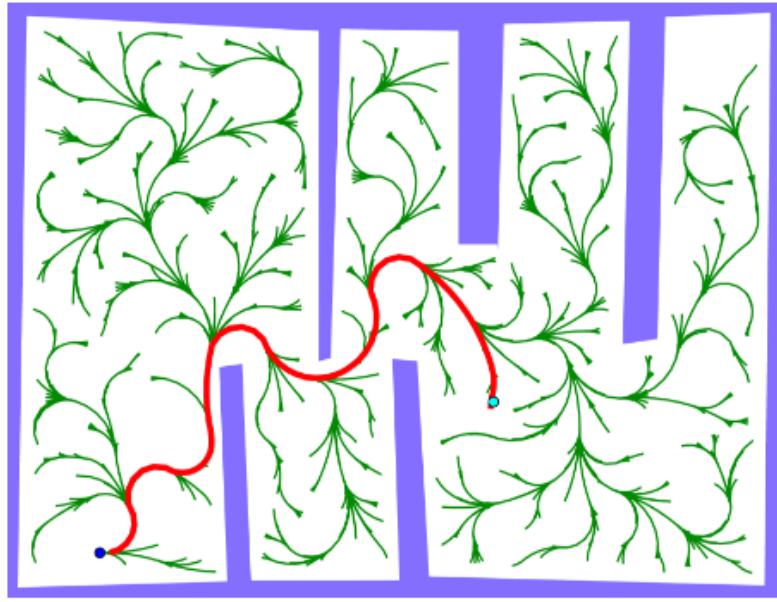
- <https://www.springer.com/us/book/9783540779735>
- CSCI 591: Computational Geometry (Spring 2019)
- TDA @ MSU group

Inspiration:

- <https://youtu.be/rGtvpcyjxY4>

Image from: <https://www.cgal.org/>

Motion Planning



Starting point:

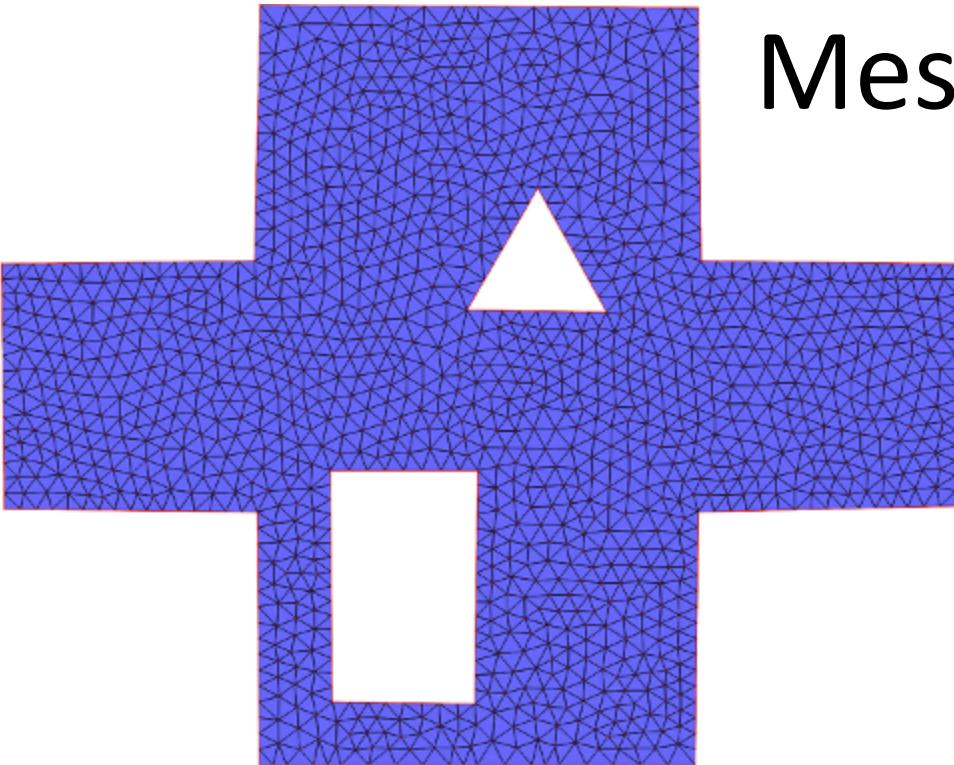
- <http://planning.cs.uiuc.edu/>
- <https://dl.acm.org/citation.cfm?id=2615399>

Inspiration:

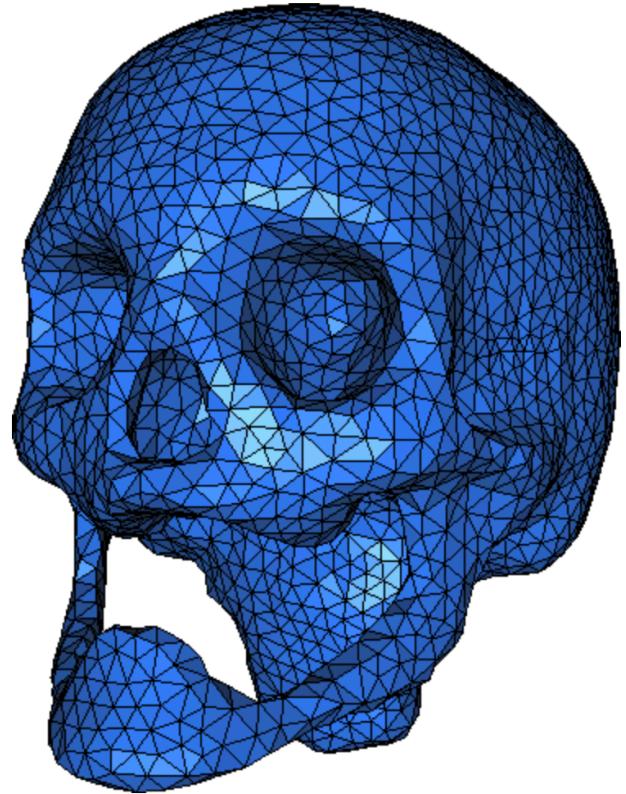
- <https://youtu.be/lGOvYyJ6r1c>

Image from:

(right) <https://dl.acm.org/citation.cfm?doid=1141911.1142008>
(left) <http://mrs.felk.cvut.cz/research/motion-planning>



Mesher



Starting point:

- <https://www.crcpress.com/Delaunay-Mesh-Generation/Cheng-Dey-Shewchuk/p/book/9781584887300>
- CSCI 591: Computational Geometry (Spring 2019)
- TDA @ MSU group summer reading

Inspiration:

- <https://youtu.be/eKr37FTa3tg>

Image from: https://doc.cgal.org/latest/Surface_mesher/index.html#fig__figureSurface_mesherSkull

Machine Learning



Getting started:

- http://www.connellybarnes.com/work/class/2016/deep_learning_graphics/

Inspiration:

- https://youtu.be/6FzVhIV_t3s

Image from: <https://users.cg.tuwien.ac.at/zsolnai/gfx/gaussian-material-synthesis/>