# 536E Graph Drawing 

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## Good ways to draw graphs?

Energy minimization


Graph Drawing Contest 1995

## Good ways to draw graphs?

Local heuristics


Graph Drawing Contest 1995

## Good ways to draw graphs?

Orthogonal edges


Graph Drawing Contest 1995

## Good ways to draw graphs?

Greek gods


Graph Drawing Contest 2016

## Good ways to draw graphs?

Skeletons/Flows


Skeleton-Based Edge Bundling for Graph Visualization, O. Ersoy et al. 2011

What graphs can be drawn in a certain way?

As contact of squares (or other shapes)


Square Tilings with Prescribed Combinatorics, O. Schramm 1993

What graphs can be drawn in a certain way?
As "close" points


## What graphs can be drawn in a certain way?

As visibility graphs between geometric objects


## Simultaneous drawings

Drawing different graphs on the same points

S. Kobourov 2003

Do "universal" point sets exist?

## Restricted drawings

Drawing graphs on small grids


MatlabBGL
How small?

## Graph Drawing



Graph Drawing Poster 2013

