Today:
- Line search methods
- Descent Directions
- What can go wrong with simple ideas (and how this is different from the SIMPLEX method)
- How to fix it using the Wolfe conditions (a sort of Goldilocks case)

Terms you'll see:
- Descent direction
- Wolfe conditions
- Sufficient decrease
- Armijo Conditions
- Curvature condition
- Strong Wolfe conditions

Line search method pseudo-code:

While not done (i.e. the gradient is still large)

Pick p as the search direction

Find alpha as a step length along p.

Move to x = x + alpha*p