

# A QUICK INTRO TO A.G. (CONTINUES)

## PREVIOUSLY...

- Affine and projective space
- Affine and projective sets and their ideals, varieties (when ideal is prime)
- Coordinate ring and function field of a variety
- Dimension (transcendence degree of  $\bar{K}(V)/\bar{K}$ )
- Curve: proj. variety of dimension 1.
- $C: f(x, y, z) = 0$  is singular at  $P \in C \iff \frac{\partial f}{\partial x} \Big|_P = 0$























