Open problem: What should we infer or label?

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Computer vision tasks

- Proxy for down stream applications
 - Few are useful by themselves
 - How good are our proxies?







Example: Assistive technologies

- Object detection
 - Goal: How many elderly people do you detect?
- Down stream goal
 - How quickly and accurately do you detect a dangerous situation?
 - How much more efficient do you make the caretaker?



Example: Autonomous driving

- Semantic segmentation
 - Goal: Label every pixel with a class
- Down stream task:
 - Get from A to B without crashing



What do computer vision tasks provide?

- An efficient proxy to design and tune models
- Pre-training
- A compact and generalizable representation





