



VOWPAL WABBIT

Version 8.9

NeurIPS 2020 Expo day

Why Vowpal Wabbit?

Step 1: Basics
Seek/Avoid



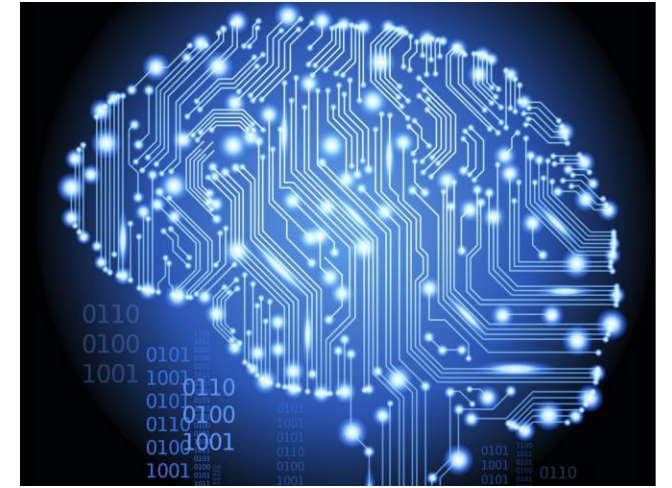
Step 2: Advanced
Rich Sense
Planning



Step 3...

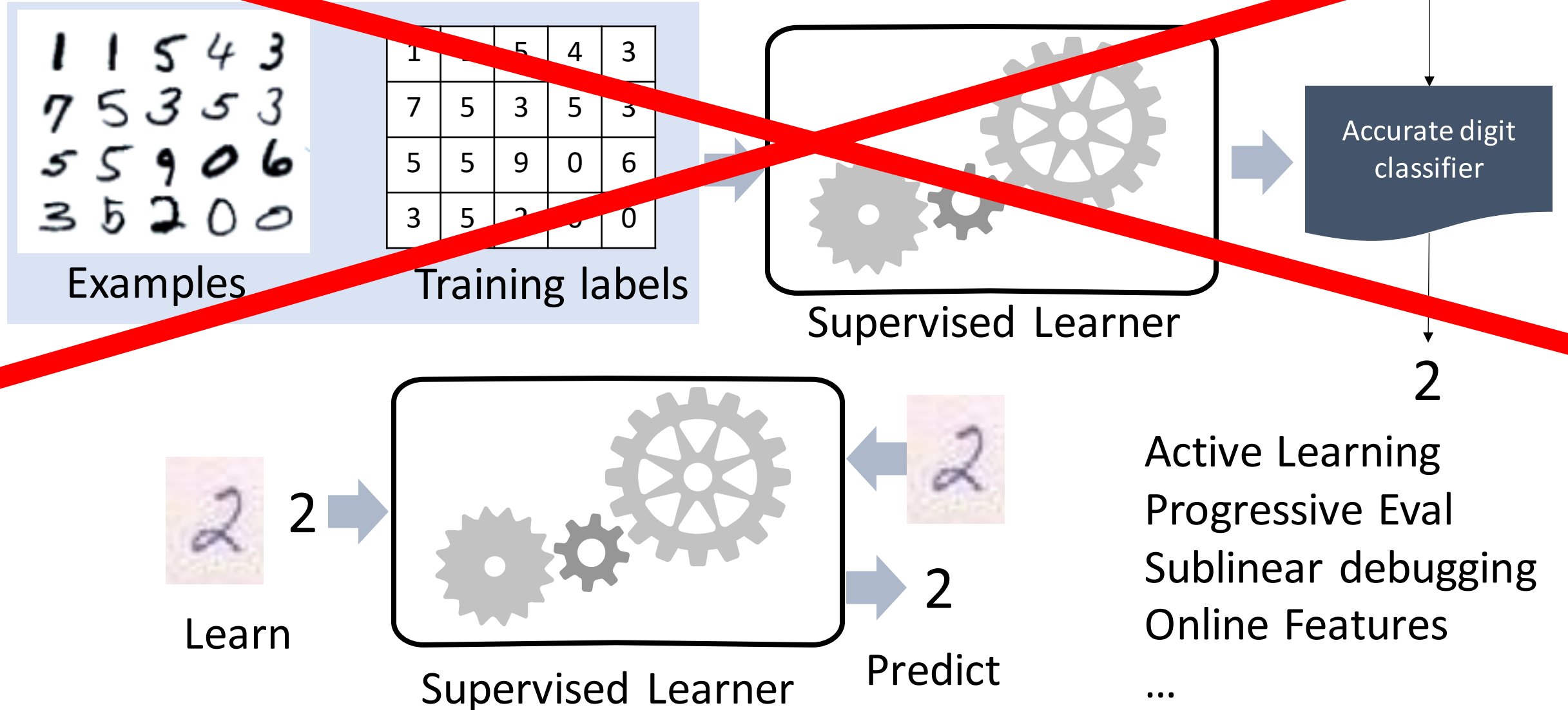
Step 4...

How do you AI?

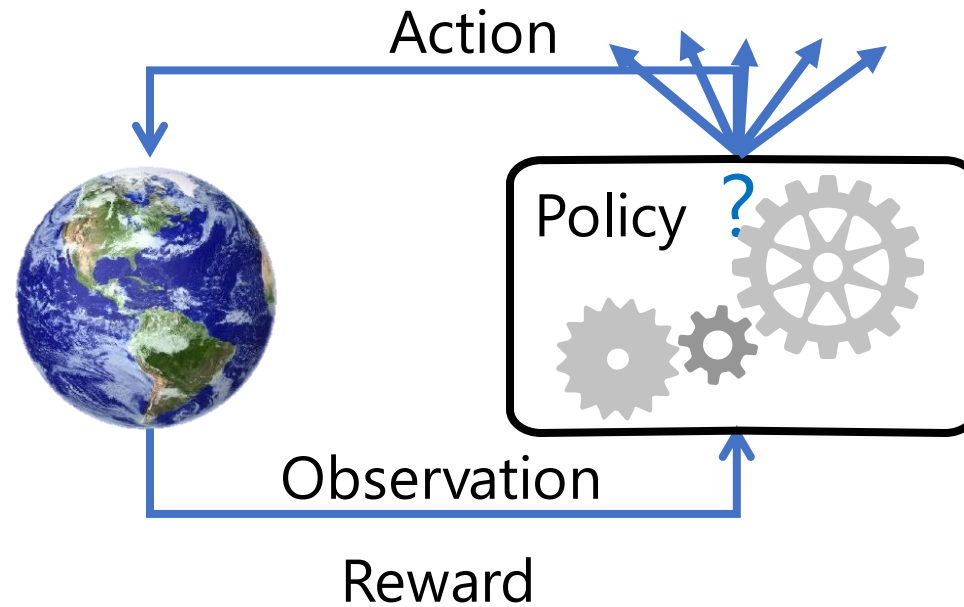


How do you do basic intelligence?

1: Online Learning



2: Interactive Reinforcement Learning



Contextual Bandits
Explore/Exploit
Learning to search
Counterfactual eval
...

Goal: Find a policy maximizing the sum of rewards

3: Research Support

How many other research problems have taken 70 years to solve?

Humility is in order.



Open Source (BSD license) <https://github.com/VowpalWabbit>

Learning Reduction based modularity

Many, many papers incorporated

Many experiments with different ways of doing things

4: Widely Useful

Core language = C++, with bindings in Python, Java, C#.

Command line / Daemon / Library / Services

Install: pip install / apt-get / nuget / maven

Theoretical foundations!

YAHOO!

ЯНДЕКС amazon

Baidu 百度

GraphLab

AMERICAN
EXPRESS



AOL

IBM

F T I
CONSULTING

Microsoft



Vowpal Wabbit builds our understanding of basic intelligence.