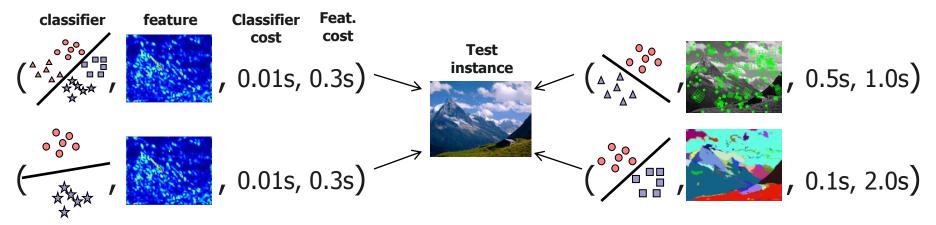


Can we enjoy the statistical gain of using multiple features/kernels/classifiers at a small computational cost?



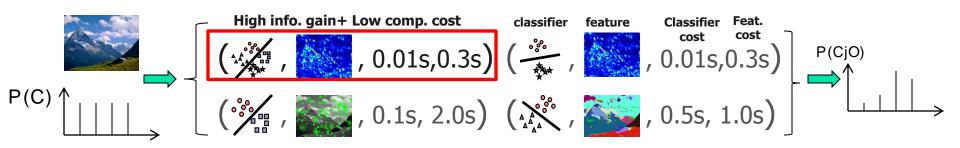
## Given an ensemble of classifiers (built on multiple features):

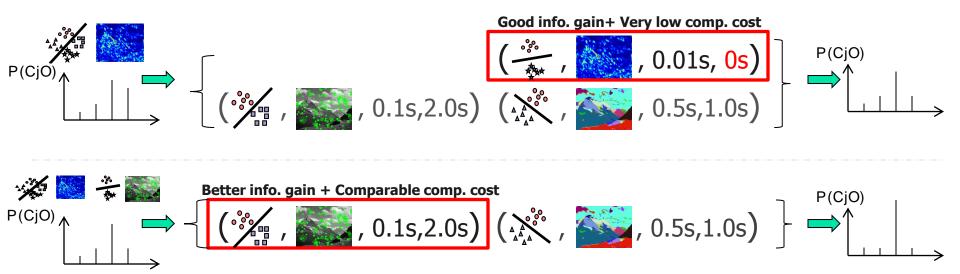


## **Active classification process:**

- classification as a sensing problem: each classifier is viewed as a potential *observation* that might inform our classification process
- a dynamic process: observations are selected sequentially based on previous observations
- selection based on value of classifier
  - A value-theoretic computation that balances an estimate of the expected classification gain and its computational cost







Model/Algorithm Highlights: instance-specific, dynamic, robust, joint consideration of statistical and computational properties

## Results (multiple features)

