

A General Agnostic Active Learning Algorithm

T13

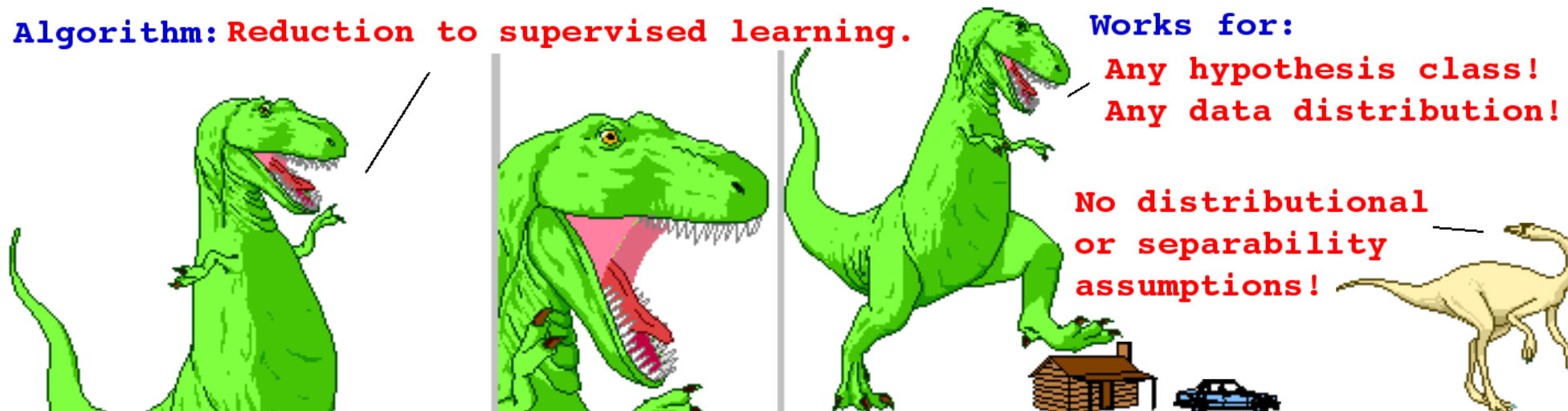
Sanjoy Dasgupta, Daniel Hsu, Claire Monteleoni

Algorithm: Reduction to supervised learning.

Works for:

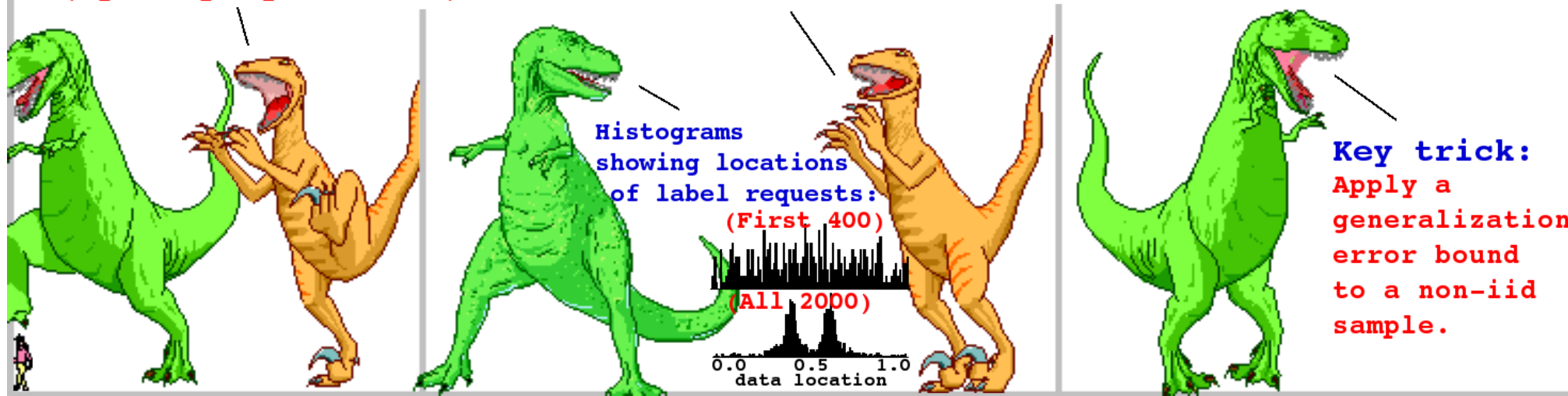
Any hypothesis class!
Any data distribution!

No distributional
or separability
assumptions!



Computational efficiency:
Same as supervised learning
(up to poly factors).

Statistical efficiency:
Never worse than supervised learning.
Significantly better in some cases!



Key trick:
Apply a
generalization
error bound
to a non-iid
sample.