# Integrating Diverse Student Devices into the Digital Classroom

#### Classroom Presenter

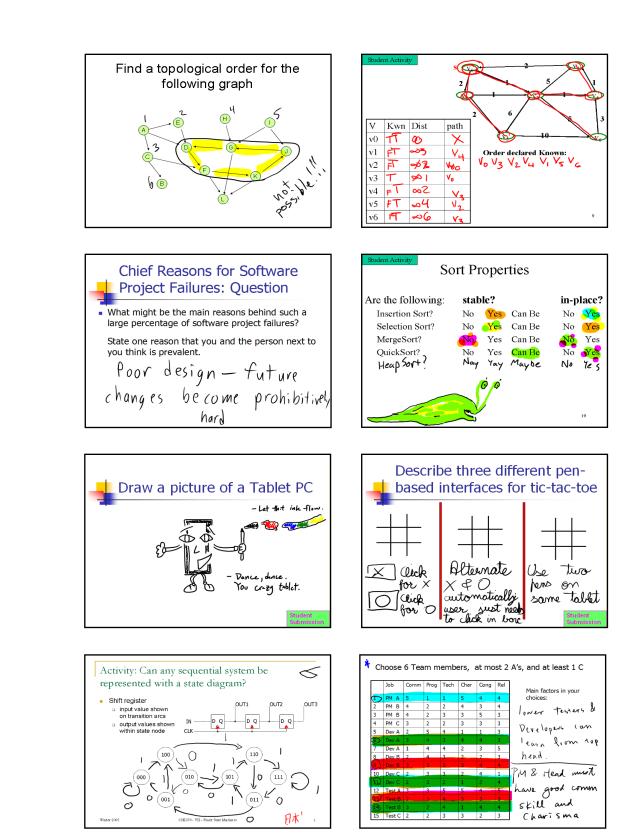
Used in 100s of courses

#### **Problem: Tablet PC Only**

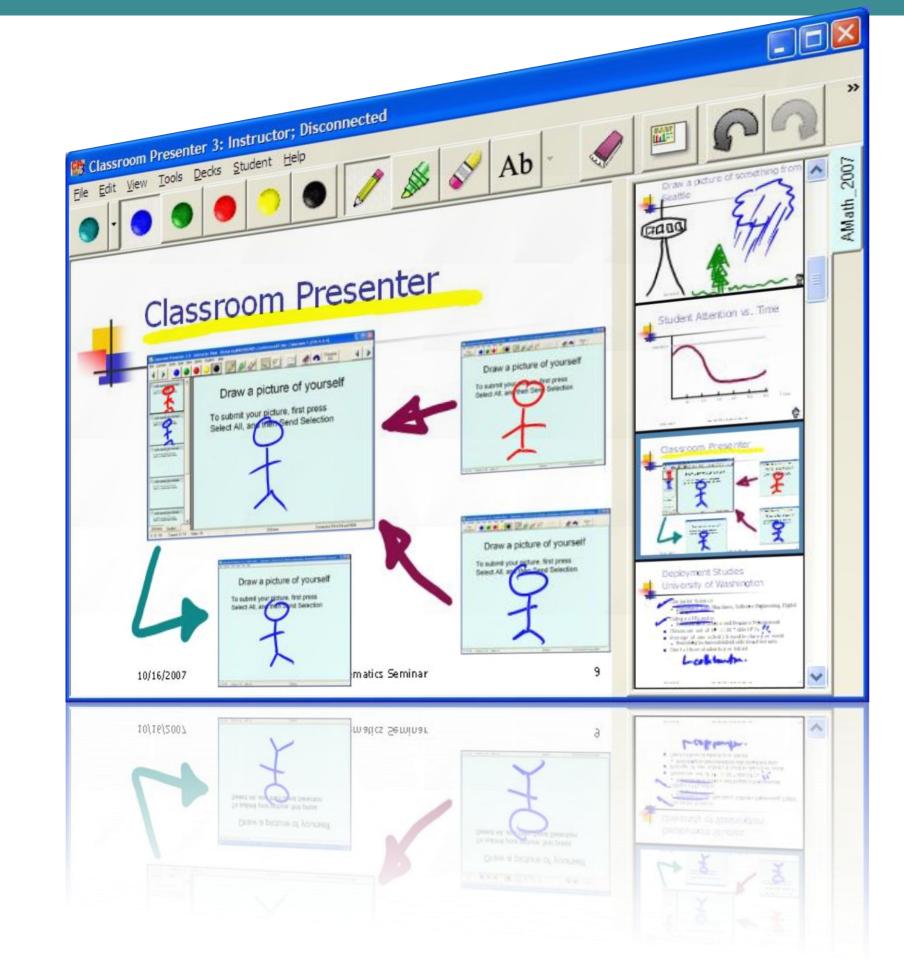
- Costly/Time-consuming to deploy
- Most people don't own Tablet PCs

#### **Student Submissions**

A successful pedagogy – give students in-class activities
Supports active and peer learning
Works well when the class all has
Tablet PCs





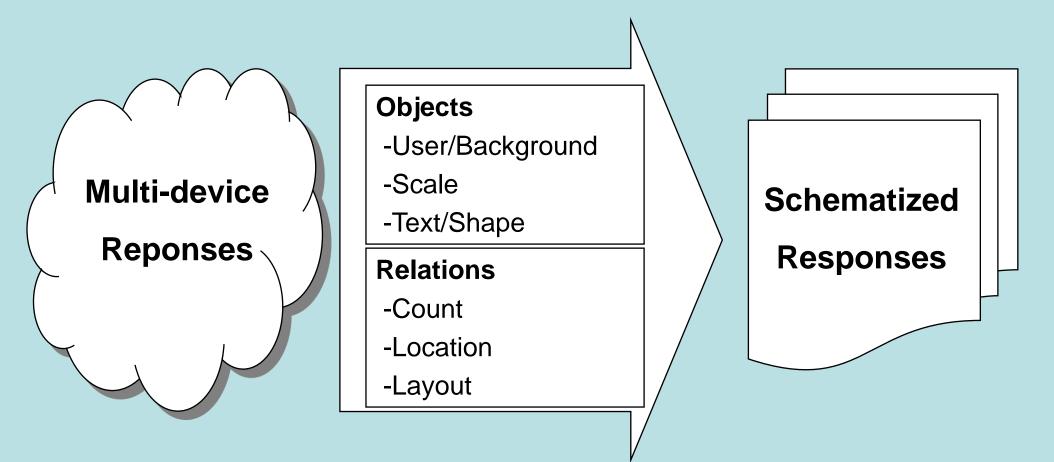


## How do we leverage the devices people already own?

## Design Issues

#### Questions:

- How do you design activities for many different devices?
- What activities are easy/hard to support across devices?
- What tools will help instructors design cross-device activities?
- How can instructors make sense of responses from different devices?

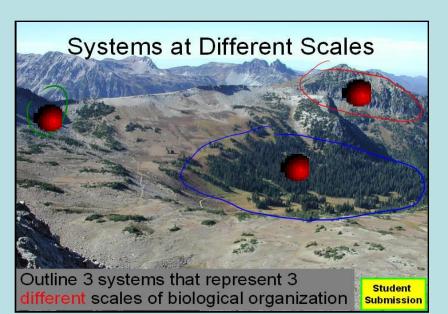


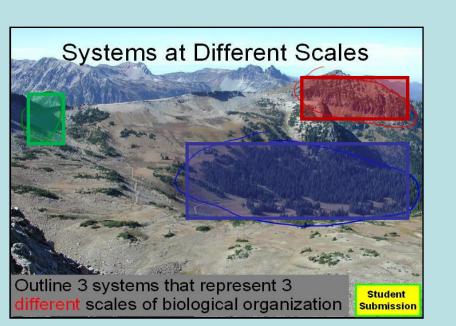
The Goal: Describe the semantics of an activity so we can select the best way for students to answer it on his/her device and do some automatic clustering/understanding.

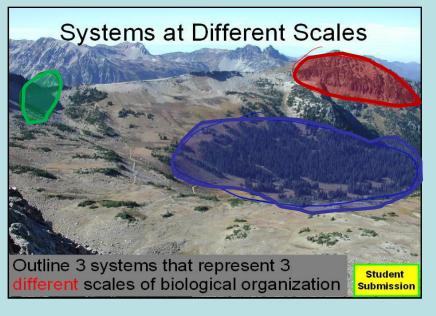
## **Use Issues**

Explore novel input techniques for small devices. For example:

- Drawing points/regions/boundaries
- Drawing/Editing diagrams
- Inputting text







**Points, Regions or Boundaries?**: Depending on the capabilities of a device and the type of response required for an activity, the input interface used may be different.

### **Build Issues**

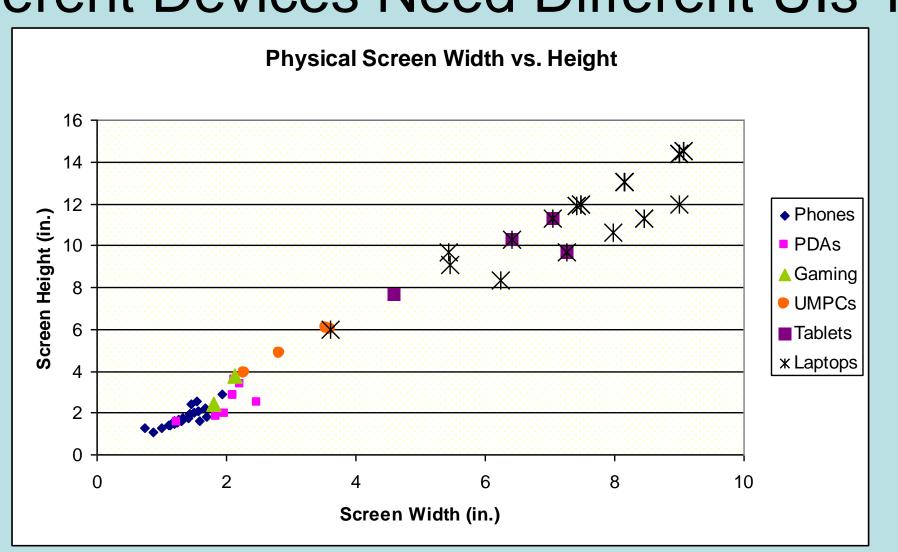
Each platform has uses different language and API:

- C++
- C#
- Objective C

Java



#### Different Devices Need Different Uls Too!



More Information: http://classroompresenter.cs.washington.edu



