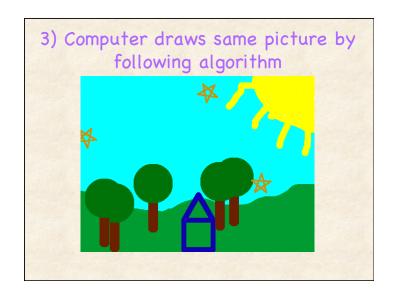


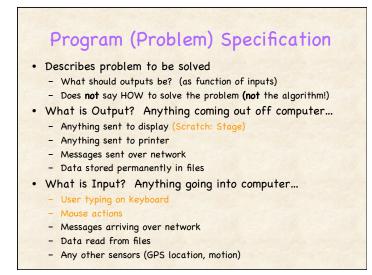
# What are different approaches of "Computer Art"? 1. Human uses computer to modify digital images 2. Human uses computer as drawing/painting tool 3. Human designs algorithm; computer follows to create exact picture (e.g. drawing in Scratch) - Homework 2 4. Human designs algorithm w/ some randomness, unknown result • Human examines results, picks most appealing • Or, computer "evaluates" and shows best (according to some metric) 5. Human interacts with computer • Algorithm translates pitch to shape; volume to size; movement to color

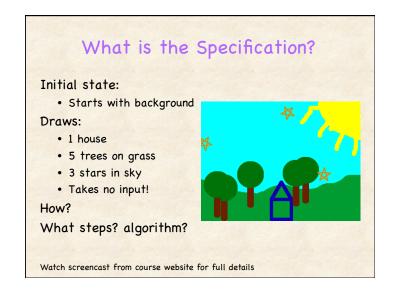
· Golan Levin makes art that looks back at you

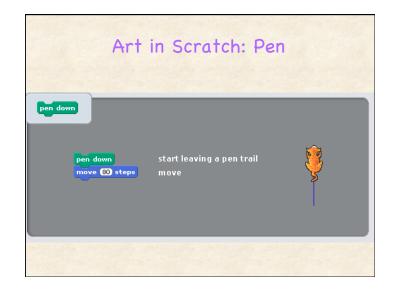
http://www.ted.com/talks/golan\_levin\_ted2009.html

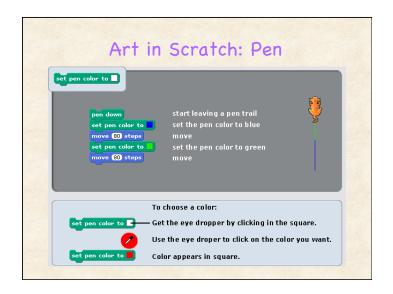


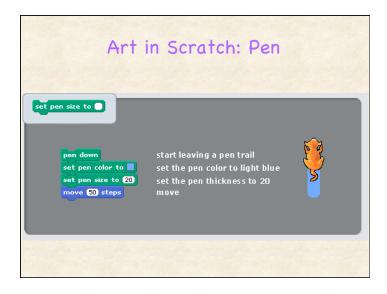


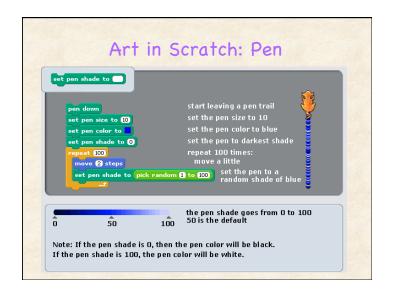






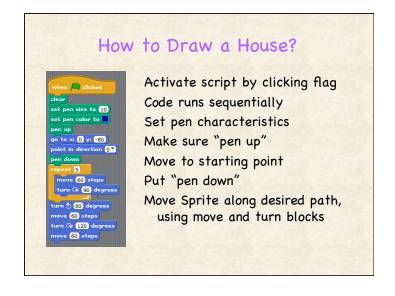


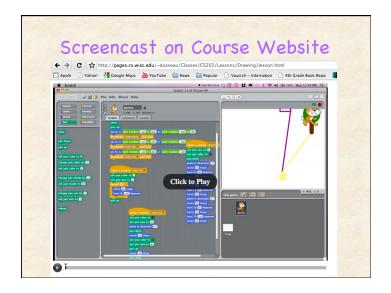






Develop code for house now...









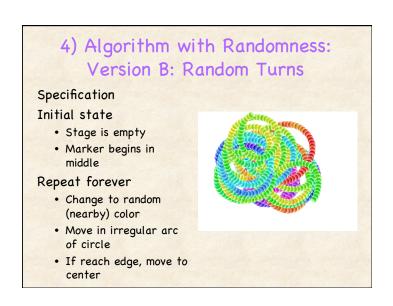




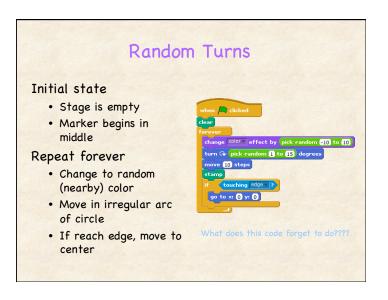


#### 4) Algorithm with Randomness: Version A: Brownian Motion Specification? Initial state · Stage is empty · Marker begins in middle of stage Repeat forever

### Move randomly up/ down and left/right · Change to random (nearby) color · If reach edge, go back to center



#### Brownian Motion Initial state · Stage is empty · Marker begins in middle of stage Repeat forever × by pick random -10 to 10 · Move randomly up/ nge y by pick random -10 to 10 down and left/right · Change to random (nearby) color · If reach edge, go back to center



#### Programming Concepts

#### General

- · Think about initial state
- · Incrementally test code as you go
- Scripts must be activated to run (when flag clicked)
- · Execution within script proceeds sequentially
- · Control: forever, repeat <times>, if <question> then

#### Blocks in Scratch

- · Movement: X-Y coordinate system for Stage
- Pen and stamps
- · Random numbers

#### **Announcements**

#### Homework 2 due before class Monday

- · See web page for hw details
- Any questions with <a href="mailto:cs202-tas@cs.wisc.edu">cs202-tas@cs.wisc.edu</a>

Homework 1 Graded - Available thru Learn@UW

#### Optional: TED Talk

- · Golan Levin makes art that looks back at you
- http://www.ted.com/talks/golan\_levin\_ted2009.html

## Today's Checkup What happens if you don't specify the initial state of your program?

Which are likely to be used for initialization?

move 10 steps

set size to 100 %

change size by 10

glide 1 secs to x: 0 y: -76

Den III

switch to costume costume1

clear

next costume