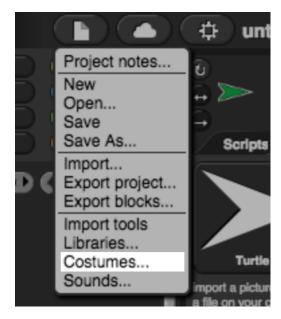
Lab 1.4: Sprites in Action

In this lab, you will use costumes and movement to create simple Snap! animations.

Part 1: Run, Spot, Run

1.1) In a New Snap! project, click on the file menu, then click costumes. Import the costumes dog2a and dog2b.



Menu->Costumes



Import Costumes

- 1.2) Write a script to make the sprite change costume each time the space bar is pressed. (The sprite should switch back and forth between the two costumes.)
- 1.3) Add to your script so that the sprite will



Introduction to Computer Science

- 1. Face to the left.
- 2. Move a few steps.
- 3. Change costume when the left arrow key is pressed.

In your window, the dog should look like it is walking when you press the left arrow key repeatedly.

1.4) Enhance your script to look as though the dog can walk to the right with you click the right arrow key.

Part 2:Here be Dragons

- 1.1) Create a new sprite. Following the same steps as in part 1.1, import the costumes dragon1-a and dragon1-b.
- 1.2) Write a script to make the sprite appear to breathe fire when the f key is pressed. The sprite should switch to the fire-breathing costume for a few seconds, then switch back to the original costume.
- 1.3) Modify your script so that the dragon attacks the mouse pointer when the f key is pressed. When the f key is pressed, the dragon should take the following actions in order:
- 1. Make sure it is in the "normal" costume
- 2. Point at the mouse pointer
- 3. Glide to the mouse pointer's position
- 4. Change to the "fire-breathing" costume
- 5. Pause to breathe fire
- 6. Change back to the "normal" costume

Part 3: Run Away

- 3.1) Add another sprite to your program. (This sprite can have any costume you choose).
- 3.2) Write a script to make this new sprite point away from the dragon and move when the r key is pressed.
- 3.3) Modify your script so that instead of moving when the r key is pressed, the new sprite moves when the dragon attacks. The fleeing sprite should move when the dragon starts breathing fire.
- 3.4) Add a second sprite that runs away from the dragon as well.



Introduction to Computer Science

Grading Scheme/Rubric

Lab 1.4 Criteria	Points
2.2 Dragon breathes fire	0.25
2.3 Dragon attacks mouse pointer correctly	0.75
3.2 A sprite runs away from dragon	0.25
3.3 Sprite runs away when dragon breathes fire	0.5
3.4 Another sprite runs away too	0.25
PROJECT TOTAL	2.0 points