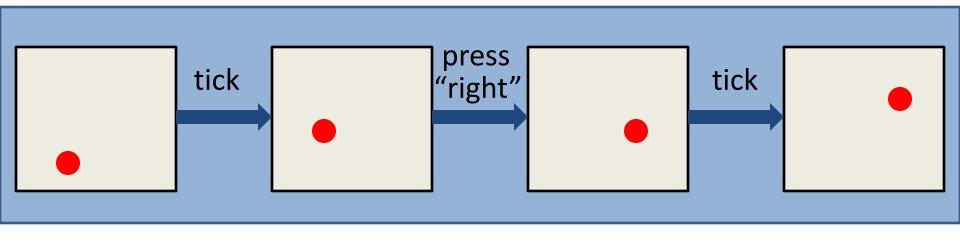
StoryBoards

A series of frames, connected by game actions

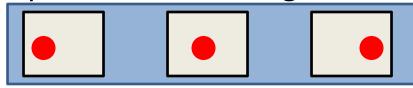


Can be used to sketch out game behaviors/requirements

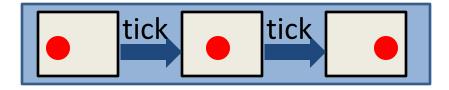
Goal: allow students to plan games through storyboards, then use those boards as test cases while writing their game

Student Workflow: Design Phase

- fill in a game design worksheet with characters and how they change (as in current workbook)
- get blank storyboard
- drag/drop graphics to make images



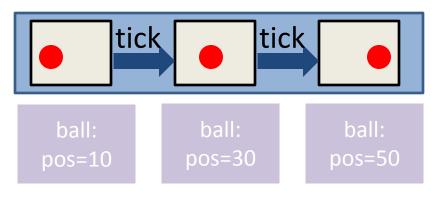
 add arrows indicating action from frame to frame (action choices given through drop-downs)



- can "play" board to see animation in action
- make more boards to show corner cases, etc

Student Workflow: Frames to Worlds

 Pick a storyboard. For each frame, instantiate the worksheet with current character data

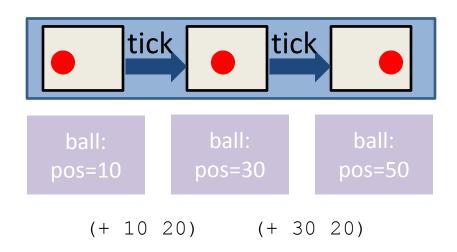


write place-image expressions for each frame/sheet

• abstract to create a draw-scene function; recreate existing frames using that function (test against storyboards)

Student Workflow: Animation

 write expressions to compute new character data (worksheet) from previous frame's on each arrow



abstract to create update functions

Student Workflow: Testing

- Once functions have been written, tool can simulate the configuration and action of each storyboard against the provided functions
 - test each character update function against the contents of the worksheet instances (i.e., generate the test cases from the worksheet instances)