

No class Thursday, Friday,
or Monday

Final Tuesday May 2

8 to 10 AM
here

Falling Block Game

What can the ^{user} ~~user~~ do?

move block left/right *

→ rotate *
send down

What does the program need to do?

Select next block

display board

Respond to user input

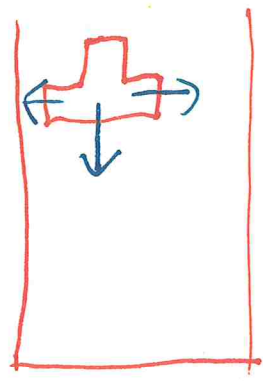
- edge of screen *

stop when hits another block *
(falling down & side to side)

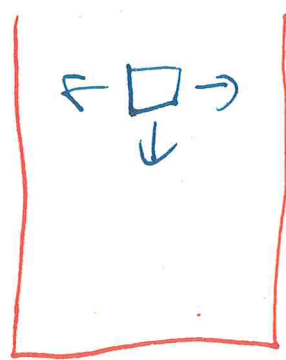
clear row
score

Piece movement

where is the piece?



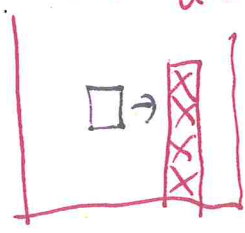
x, y



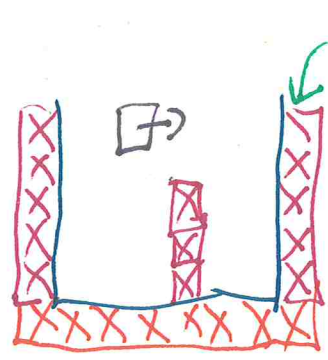
0 1 2 3 4 5 6

player wants to move right
if $x < 6$:
 $x += 1$

what about a piece on right?



if space to right
empty AND $x < 6$:
 $x += 1$



if space to right
empty:
 $x += 1$

April 13

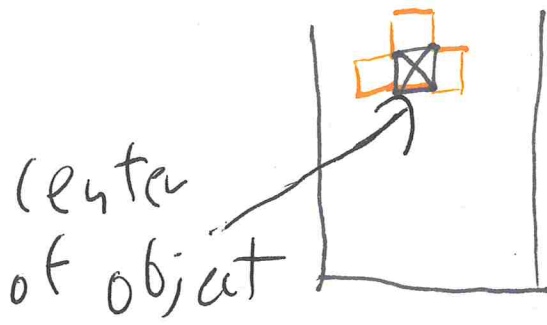
Jobs to do

- Finish rotate
- Score
- Make pieces (not a worry)
- move left (not a worry)
- move down
- convert to LEDs Wagner
- user interface

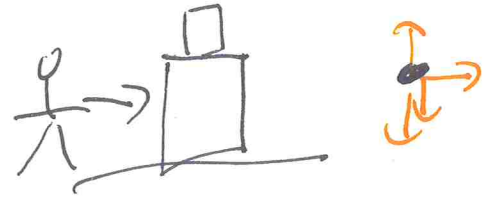
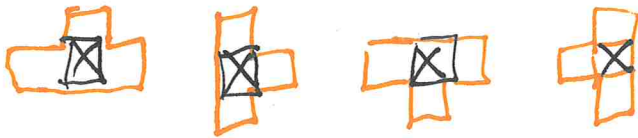
GitHub.com

Software repository

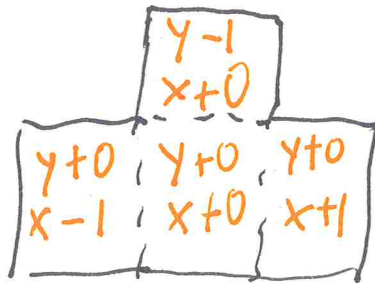
version control



Free body diagrams



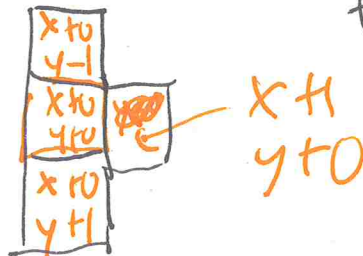
Represent objects as points relative to center.



do we want to

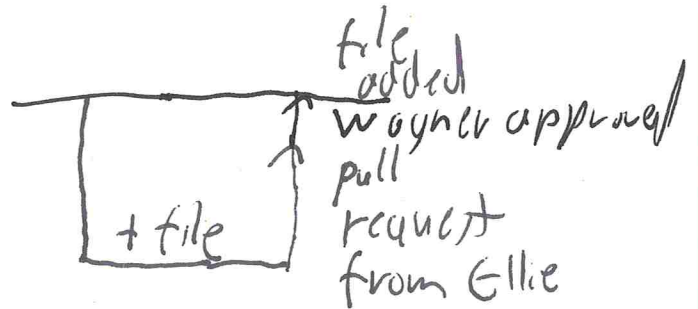
when can we rotate? when can we rotate ^{there} is both ways? ^{from}

No.



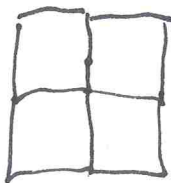
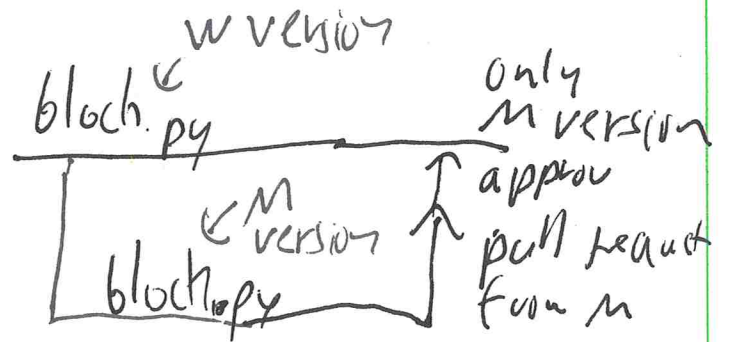
prof wagner

Ellie



prof wagner

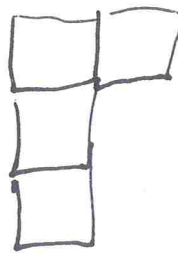
M



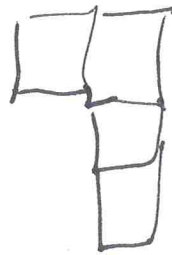
John



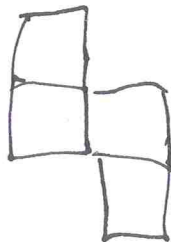
E



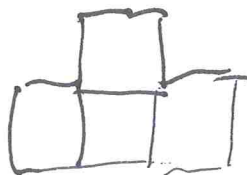
M



L



C



R

finish