

CompSci 6

Programming Design and Analysis



March 18, 2010

Prof. Rodger



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ABOUT

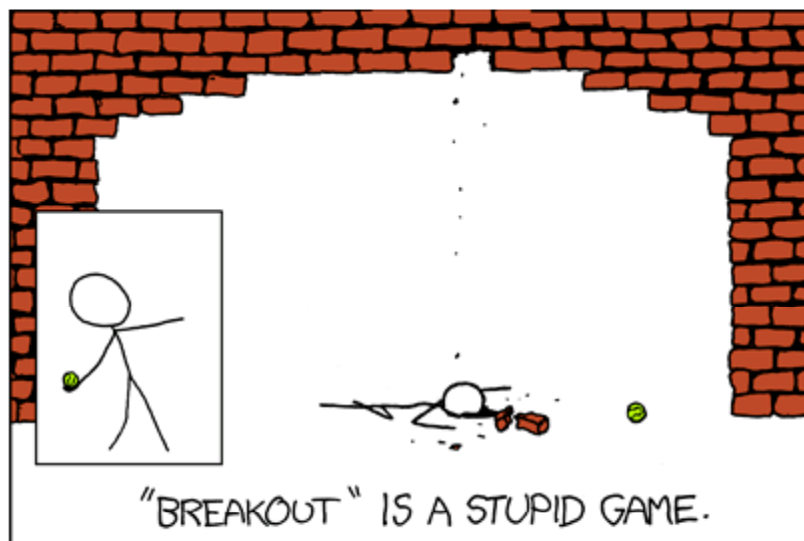


*A WEBCOMIC OF ROMANCE,
SARCASM, MATH, AND LANGUAGE.*

XKCD UPDATES EVERY MONDAY, WEDNESDAY, AND FRIDAY.

BRICK ARCHWAY

|< < PREV RANDOM NEXT > >|



Announcements

- Assignment 7 out today
- Classwork today is start Assignment 7, so there is no classwork to turn in for today.
- Topic today is more on 2D arrays
- No reading for next class. No Reading quiz.

Assignment 7 - Pixmap

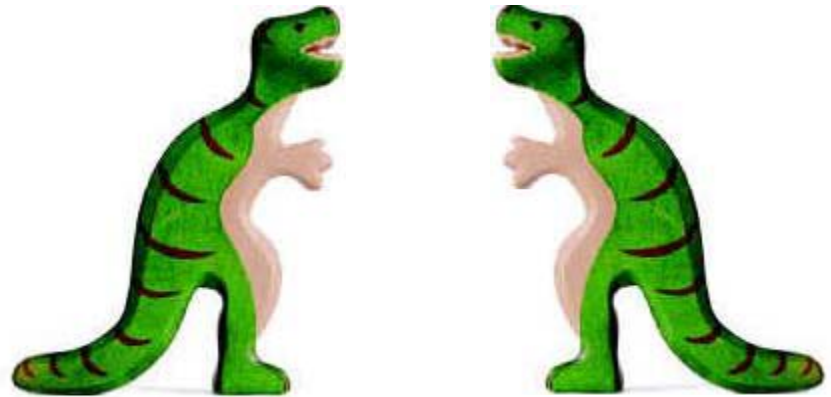
- Wrapped up our 2-D array into a class
- Pixmap
 - `private String myFileName;`
 - `private BufferedImage myImage;`
 - `private Dimension mySize;`
- Create a pixmap
- Get and Set a color from one pixel
 - `public Color getColor (int x, int y)`
 - `public void setColor (int x, int y, Color value)`

Other Pixmap methods

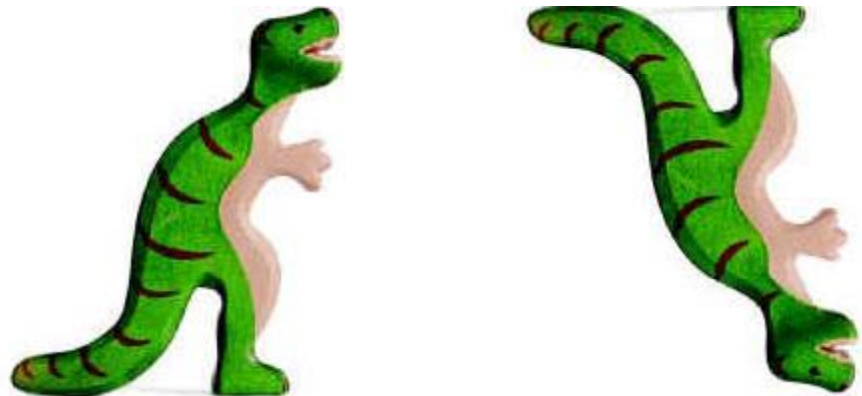
- `public String getName ()`
- `public boolean isInBounds (int x, int y)`
- `public Dimension getSize ()`
- `public void setSize (int width, int height)`
- NOTE: Look at code for “Negative” – it’s already been done for you

Mirror Vertically and Horizontally

- Mirror vertically
 - Think about writing a swap method

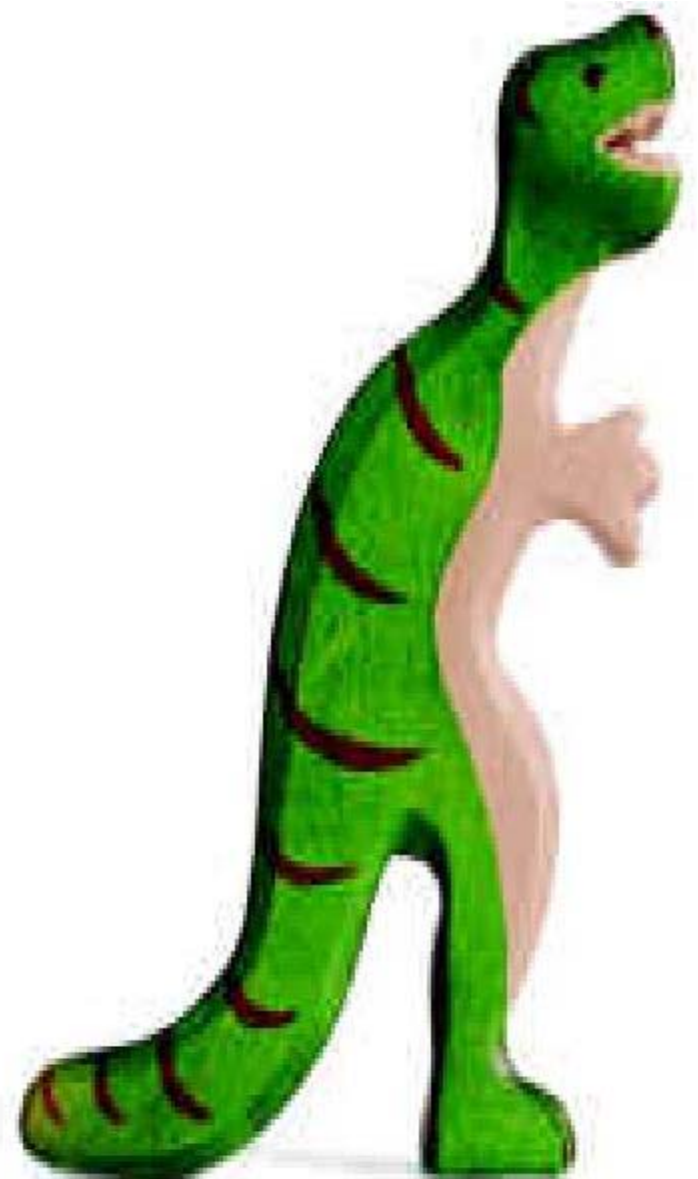


- Mirror horizontally



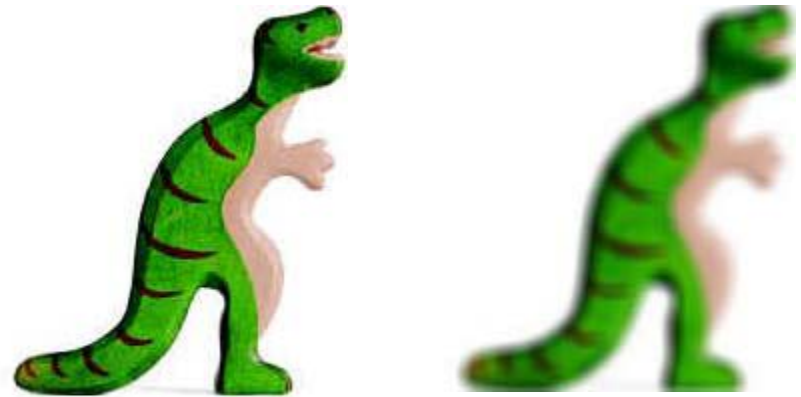
Expand

- Example –
 - Expand by 3 rows and 2 columns



Filter – Blur and Edge Detection

- Example –
Blur 9 x 9



- Example –
Edge
Detection 5x5

