

Unit 6: Computer Graphics in Java
Project 2: Pair Programming Graphics Project

Objective

Demonstrate knowledge about Java Graphics

Previous knowledge

In order for your team to produce an outstanding product you must have acquire the following programming skills:

- ☺ Know the graphics coordinate system
- ☺ Able to use and apply drawing methods from the Java Graphics class
- ☺ Able to draw lines, rectangles, ovals, arcs, and polygons
- ☺ Able to create custom colors
- ☺ Able to display text of different color, size and style.

Problem Statement

For this project, you and your programming partner need to write a Java graphics program. You need to create a drawing of your choice. However, your drawing needs to follow given specifications and constraints.

Required Display

Your final product will be graded according to the grading rubric on pages 5, 6, and 7 of this document.

Resources

As usual, you will find the following resources in my blackboard site

- 😊 GraphicsExamples
- 😊 Graphics in java.ppt

Required files

MyDrawing.java
MyDrawing.html

Data Input

None

Methods you will be using (and more)

- ☺ drawLine()
- ☺ drawRect()
- ☺ fillRect()
- ☺ drawOval()
- ☺ drawString
- ☺ setColor()
- ☺ drawPolygon();

Drawing Requirements

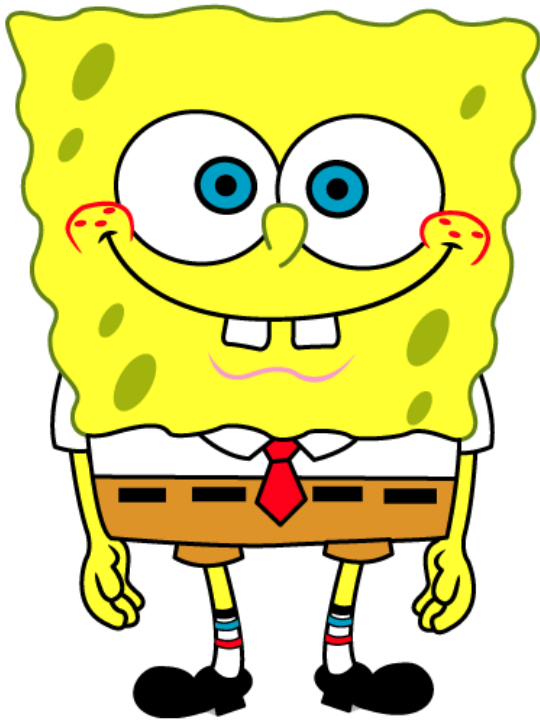
- ☺ Your drawing must be school appropriate
- ☺ No Profanity
- ☺ Must include all shapes we have learned in unit 6 (graphics unit)
- ☺ Must include title of your drawing
- ☺ Must include the names of both members
- ☺ Your code must include meaningful comments
- ☺ Must include a background
- ☺ CREATIVITY will be an extremely important factor when determining your grade.

Drawing suggestions

Here are some suggestions for your drawings.



Option 2: SpongeBob, mike and Shrake.



SpongeBob (missing background)



Mike wazowski



Shrake (missing background)

Other Project options



Olaf frozen



Chapulín Colorado Mundo's Hero



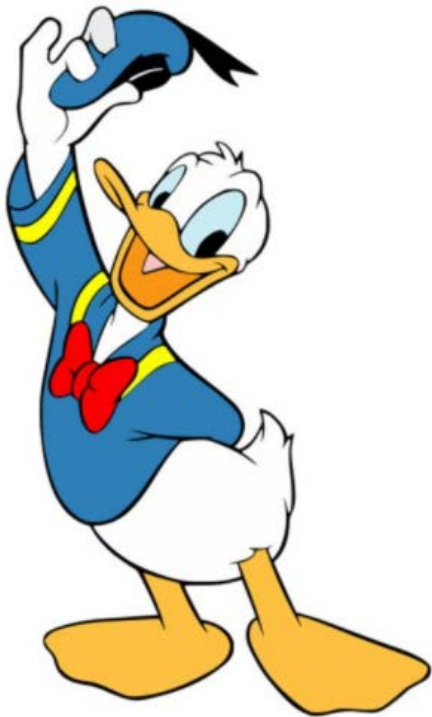
Stich from Lilo and Stich



Pancho Villa



Iago



Donald Duck



Los dos amigos

You are certainly encouraged to draw an object of your choice. However, it must be of the same or greater complexity of those suggested. YOU MUST ASK FOR MY APROVAL BEFORE GOING ON WITH YOUR PERSONAL SELECTED DRAWING

Project Grading Rubric School Bus

Items	Points	Points Earn
Seven passenger windows	20	
One driver window	10	
Two tires	10	
Two wheels	15	
Text "Klein I. S. D." Text "276"	10	
Include drawing of four students	10	
Objects are placed symmetrically	10	
Background	15	
	Total Grade	

Project Grading Rubric SpongeBob

Items	Points	Points Earn
Main Square and Pants	20	
Complete Eyes (4 ovals)	10	
Tie	10	
Arms	15	
Legs	10	
Shoes	10	
Object are placed symmetrically	10	
Background	15	
	Total Grade	

A similar rubric will be used for the other drawings

Extra Credit

One of my classes will vote to select the best drawing. Members of the winning team will get extra credit points