CSE 142 Programming I

Brief Intro to GP142

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All coordinates are measured from the center of the screen: (0,0) CSE 142 Summer 2000 — Issae Kunen GP142-2

Drawing Commands

Initializing the Library

call GP142_open()

- GP142 has built in functions to draw
 - **>**pixels
 - ➤lines
 - ➤ rectangles
 - ➤ triangles
 - **>**ovals
 - ➤ circles
 - **>**text

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Example GP142 Command

 Draw a red circle with radius 40 centered at (20, -30)

GP142_circleXY(RED, 20, -30, 40);

 All of these commands are in the GP142 reference manual

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Events

- GP142 uses events to provide actions
- Events are generated for each
 - ➤ Mouse click
 - ➤ Keystroke
 - ➤Quit button is hit
 - ➤ Every 10th of a second

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• These need to be done once per program

Before you can draw anything you must

When you're done, call GP142_close()

GP142-5

GP142-3

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Event Loop

GP142 Predefined Constants

- Event Types
- Log ON/OFF
- Animation RUN/HALT/etc.
- Colors
- Don't try to redefine these! They're already there.

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How Do We Use It?

- We have to keep track of where everything is
- At each periodic event, we clear the screen (GP142_clear()) and draw things in their new positions
- If the user does something, then the loop handles it

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GP142-9

Where to Learn More

- Read the users guide
 - **≻**Online
 - ➤In your course packet
- Play with the library—it will make more sense once you try it out

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GP142-10