ENGINEERING COMPUTER PROGRAMMING (SUPPLEMENTARY)

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USER INTERFACE PROGRAMMING

Programs with a graphical user interface (GUI) are structured around events. Most of the time, the program just waits for an event to happen.

Events are for instance:

- key presses
- window is minimized, maximized, or closed
- mouse is moved
- mouse button is pressed
- cursor enters window or leaves window

Event-based programming means that a program doesn't have a sequential flow of control, but consists of functions that are called by events.

WAITING FOR USER INTERACTION

return False

The Table.ask(prompt) method must wait for the user to press a key: def ask(self, prompt): self.question.setMessage(prompt) while True: e = self.canvas.wait() ← e is an event object d = e.getDescription() if d == "canvas close": sys.exit(1) if d == "keyboard": key = e.getKey() if key == 'y': return True if key == 'n':