CS150 - More Tkinter

Announcements

- HW is due tomorrow

- New HW up today
  (take a look at it/over the weekend -
  no extentions on this one!)

  May work with new partner
  (which I recommend!)

- Office hours today 10-11

Tkinter

Making GUI's.

We've seen several examples:

- Buttons

- Scrolled Listbars

- Events

Steps: root = Tk() ← main window

root. mainloop()

Pack

Adds the widget to the window.
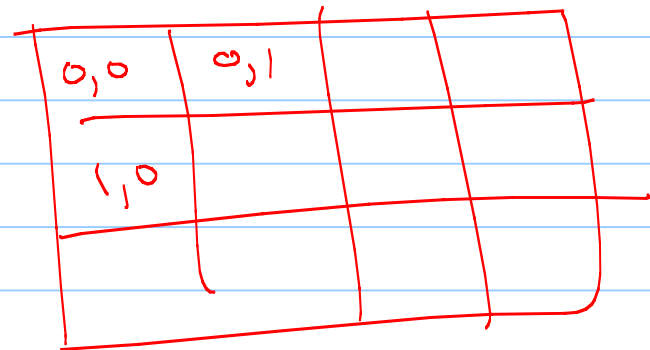(See example TkEdit.py)

Always packs it in the indicated fashion.

Somewhat limited in terms of layout capabilities.

Grid layout

Lets you specify where it will
go in row/column layout.

Also is easy to specify non-square
buttons — use columnspan or row span

See TkButtons.py

Geometry Layout

Lets you specify exact positions
(more like csl graphics)

See TkPlace.py

Having more windows

Can have actions create +
destroy extra windows.

Our example: (Tk2win.py)

- Creates a window in the main
  script. A button in that
  window calls a function.

- That function creates an instance
  of a class which makes a
  second window (using Toplevel)

Toplevel — like frame, but new window.

Text Widget

This is an internal text editor.

Lets the user enter text, which you can then "grab".

Ex: TkText.py

Final Example: Stopwatch

Two classes:
- First tracks <u>date</u>
- Second makes the window

Quiz : email to me by end of class!

Make a GUI.

Requirements:

    — At least 2 different widgets.

    — Some action to happen.
    (so each widget has a command,
    & command calls a function)