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**Python 2: Getting More Out of Python  
Lesson 8, Project 1**

Handed in: 13 Mar 2015 07:29:45PM Graded: 16 Mar 2015 11:54:04AM

**Here are your instructions:**

Write a GUI-based program to build a window layout as shown below. When the frame is resized, the buttons should stay the same height and expand sideways. Frame 1 and Frame 2 should always be the same height and width as each other, and Frame 3 should be half as wide again as they are (i.e. 150% wider, as shown below).  Labeling each Frame is optional / good exercise.

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| | |

| Frame 1 | |

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| | |

| | |

+---------------------+ Frame 3 |

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| | |

| Frame 2 | |

| | |

| | |

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| Button 1 | Button 2 | Button 3 | Button 4 | Button 5 |

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**Your Comment:**

Much better....pretty close to the actual dimensions of the diagram and it satisfies the relative size requirements as well :)

**Items Handed In**

* [Open Project Handed In](https://students.oreillyschool.com/student/project/?/.handin/160-7882-2/com.ost.jwoloson.160.7882.2.GUILayout_Homework.zip)

**Overall Comments:**

Hi Jason,

This is completely outstanding. Great work playing with these objects and finding so many ways to tweak them.

Here's some advice for Project 3:

-If you have discovered, it is actually fine to use a pack and grid manager together as long as they aren't put in control of the same widgets. So packing a Label into a Frame that was stretched to a grid is straightforward.

-Grids take more work in that each row and column should be configured. You actually got self.rowconfigure(0, weight=1) twice, but because default weight is 0, our button row 2 stays thin and trim, as it should.

-I recommend with experimenting with a pack manager for placement of widgets in Frame3. Those

widgets would be Entry and Text widgets respectively. The first should stay thin and trim across the bottom or top while the Text object should balloon to fill the rest of the frame, no real estate wasted.

-Pat

**Grade:**

Great

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