

# Data 8, Lab 5

Groups, Joins, and Pivots

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# Groups

Flavour	Colour
strawberry	pink
chocolate	light brown
chocolate	dark brown
strawberry	pink
chocolate	dark brown
vanilla	white

`cones.group("Flavour")`

<https://www.youtube.com/watch?v=HLoYTCUP0fc>

# Pivot

Flavour	Colour	Price
strawberry	pink	2.5
chocolate	light brown	3
chocolate	dark brown	3.5
strawberry	pink	2.5
chocolate	dark brown	3.5
vanilla	white	3

Columns      Rows

```
cones.pivot("Flavour", "Colour", "Price", np.sum)
```

<https://www.youtube.com/watch?v=4WzXo8eKLAq>

# Joins – See Worksheet Q2

Colour	Shape	Amount	Price
red	Round	4	1.3
green	Rect	6	1.2
blue	Rect	21	2
red	Round	7	1.75
green	Rect	9	1.4
green	Round	2	1

marbles

Size	Weight
Rect	3.6
Round	4.25
Round	3.1

weights

```
marbles.join("Shape", weights, "Size")
```

<https://www.youtube.com/watch?v=ZGPlcpACNC0>

# Announcements

- Project 1 checkpoint due today
  - To get full credit on the checkpoint, you must pass all public tests up to the checkpoint (that is, up to and including Part 1, Question 8)
  - You can go back and change your answers before you submit next week
- Project 1: the entire project is due next Friday
  - Thursday for a bonus point
  - If you're working with a partner, only one person should submit, and make sure that you *both* add each other as partners on okpy
- HW3 and lab4 grades will be released today, and regrades are due Monday.
- HW5 will be released today, and due next Thursday (Wednesday for a bonus point)