WS #4 - Verbs

Wednesday, September 10, 2025

 $\mathrm{DS}~002\mathrm{R}$ - Jo Hardin

N	ame: _								_				
N	ames of	people yo	ou work	ed with: _									
ta	Work in groups of 3-4. Do you remember everyone's name? Tell your group about one talk/performance/event/activity not related to your classes that you are looking forward to in the coming weeks.												
w Io in	Task: Consider the diamonds dataset (all the variables names are given). Below are 2 tasks which can be accomplished using the following syntax (exactly two verbs before arrange()) Identify the data verbs and arguments for accomplishing each task (the dataset includes the columns x, y, and z which are length, width, and depth in mm). Note, you may not need the last arrange(), but it won't cause errors. ¹												
d:	<pre>diamonds > verb1(args1) > verb2(args2) > arrange(args3) > head(1)</pre>												
#		ole: 3 x											
				clarity	-		-		У	Z			
				<ord></ord>									
		Ideal	E	SI2			326						
2		Premium		SI1			326						
3		Good	Ε	VS1	56.9				4.07		c \	n	
	1. Wh	ncu cotor	: diamo	and in this	datase	t is the	ıargest	on ave	rage (m	i terms	or carat)		

more than \$10,000 total?

2. What is the average price per carat of diamonds for the subset of diamonds that cost

¹From **Data Computing**, Daniel Kaplan

Solution:

1. Which color diamond in this dataset is the largest on average (in terms of carats)?

```
diamonds |>
  group_by( color ) |>
  summarize( avesize = mean(carat) ) |>
  arrange( desc(avesize) ) |>
  head(1)
```

```
# A tibble: 1 x 2
  color avesize
  <ord>     <dbl>
1 J 1.16
```

2. What is the average price per carat of diamonds for the subset of diamonds that cost more than \$10,000 total?

```
diamonds |>
  filter(price > 10000) |>
  summarise( mean.ppc = mean(price/carat) ) |>
  arrange( desc(mean.ppc) ) |>
  head(1)
```