$RWorksheet_monteal to \#4c$

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- 1. Use the dataset mpg
- a. Show your solutions on how to import a csv file into the environment.

```
data_mpg <- read.csv("mpg.csv")
data_mpg</pre>
```

##		y	manufacturer	model	displ	waar	CVI	trans	dru	ctv
	1	1	audi	a4	_	1999	4	auto(15)	f	18
##	2	2	audi	a4		1999	-	manual(m5)	f	21
##	3	3	audi	a4		2008	4	manual(m6)	f	20
##	4	4	audi	a4		2008	4	auto(av)	f	21
##	5	5	audi	a4 a4		1999	6	auto(av)	f	16
##	6	6	audi	a4		1999	6	manual(m5)	f	18
##	7	7	audi	a4		2008	6	auto(av)	f	18
##	8	8	audi	a4 quattro		1999	4	manual(m5)	4	18
##	9	9	audi	a4 quattro		1999	4	auto(15)	4	16
##	10	10	audi	a4 quattro		2008	4	manual(m6)	4	20
##	11	11	audi	a4 quattro		2008	4	auto(s6)	4	19
##	12	12	audi	a4 quattro		1999	6	auto(50)	4	15
##	13	13	audi	a4 quattro		1999	6	manual(m5)	4	17
##	14	14	audi	a4 quattro		2008	6	auto(s6)	4	17
##	15	15	audi	a4 quattro		2008	6	manual(m6)	4	15
##	16	16	audi	a6 quattro		1999	6	auto(15)	4	15
##	17	17	audi	a6 quattro		2008	6	auto(s6)	4	17
##	18	18	audi	a6 quattro		2008	8	auto(s6)	4	16
##	19	19	chevrolet	c1500 suburban 2wd		2008	8	auto(14)	r	14
##	20	20	chevrolet	c1500 suburban 2wd		2008	8	auto(14)	r	11
##	21	21	chevrolet	c1500 suburban 2wd		2008	8	auto(14)	r	14
##	22	22	chevrolet	c1500 suburban 2wd		1999	8	auto(14)	r	13
##	23	23	chevrolet	c1500 suburban 2wd		2008	8	auto(14)	r	12
##	24	24	chevrolet	corvette	5.7	1999	8	manual(m6)	r	16
##	25	25	chevrolet	corvette	5.7	1999	8	auto(14)	r	15
##	26	26	chevrolet	corvette	6.2	2008	8	manual(m6)	r	16
##	27	27	chevrolet	corvette	6.2	2008	8	auto(s6)	r	15
##	28	28	chevrolet	corvette	7.0	2008	8	manual(m6)	r	15
##	29	29	chevrolet	k1500 tahoe 4wd	5.3	2008	8	auto(14)	4	14
##	30	30	chevrolet	k1500 tahoe 4wd	5.3	2008	8	auto(14)	4	11
##	31	31	chevrolet	k1500 tahoe 4wd	5.7	1999	8	auto(14)	4	11
##	32	32	chevrolet	k1500 tahoe 4wd	6.5	1999	8	auto(14)	4	14
##	33	33	chevrolet	malibu	2.4	1999	4	auto(14)	f	19
##	34	34	chevrolet	malibu	2.4	2008	4	auto(14)	f	22
##	35	35	chevrolet	malibu	3.1	1999	6	auto(14)	f	18
##	36	36	chevrolet	malibu	3.5	2008	6	auto(14)	f	18

##	27	27	ah arrwal a+	mal:	i h	2.6	2000	6	011+0(06)	£	17
	37	37	chevrolet				2008	6 4	auto(s6)	f	17
##	38	38	dodge	caravan 2			1999		auto(13)	f	18
##	39	39	dodge	caravan 2			1999	6	auto(14)	f	17
	40	40	dodge	caravan 2			1999	6	auto(14)	f	16
	41	41	dodge	caravan 2			1999	6	auto(14)	f	16
##	42	42	dodge	caravan 2			2008	6	auto(14)	f	17
##	43	43	dodge	caravan 2			2008	6	auto(14)	f	17
##	44	44	dodge	caravan 2	2wd		2008	6	auto(14)	f	11
##	45	45	dodge	caravan 2	2wd		1999	6	auto(14)	f	15
##	46	46	dodge	caravan 2	2wd		1999	6	auto(14)	f	15
##	47	47	dodge	caravan 2	2wd		2008	6	auto(16)	f	16
##	48	48	dodge	caravan 2	2wd		2008	6	auto(16)	f	16
##	49	49	dodge	dakota pickup 4		3.7	2008	6	manual(m6)	4	15
##	50	50	dodge	dakota pickup 4	4wd	3.7	2008	6	auto(14)	4	14
##	51	51	dodge	dakota pickup 4	4wd	3.9	1999	6	auto(14)	4	13
##	52	52	dodge	dakota pickup 4	4wd	3.9	1999	6	manual(m5)	4	14
##	53	53	dodge	dakota pickup 4	4wd	4.7	2008	8	auto(15)	4	14
##	54	54	dodge	dakota pickup 4	4wd	4.7	2008	8	auto(15)	4	14
##	55	55	dodge	dakota pickup 4	4wd	4.7	2008	8	auto(15)	4	9
##	56	56	dodge	dakota pickup	4wd	5.2	1999	8	manual(m5)	4	11
##	57	57	dodge	dakota pickup	4wd	5.2	1999	8	auto(14)	4	11
##	58	58	dodge	durango 4	4wd	3.9	1999	6	auto(14)	4	13
##	59	59	dodge	durango 4	4wd	4.7	2008	8	auto(15)	4	13
##	60	60	dodge	durango 4	4wd	4.7	2008	8	auto(15)	4	9
##	61	61	dodge	durango 4		4.7	2008	8	auto(15)	4	13
##	62	62	dodge	durango 4		5.2	1999	8	auto(14)	4	11
##	63	63	dodge	durango 4		5.7	2008	8	auto(15)	4	13
##	64	64	dodge	durango 4		5.9	1999	8	auto(14)	4	11
##	65	65	dodge	ram 1500 pickup		4.7	2008	8	manual(m6)	4	12
##	66	66	dodge	ram 1500 pickup		4.7	2008	8	auto(15)	4	9
##	67	67	dodge	ram 1500 pickup		4.7	2008	8	auto(15)	4	13
##	68	68	dodge	ram 1500 pickup		4.7	2008	8	auto(15)	4	13
##	69	69	dodge	ram 1500 pickup		4.7	2008	8	manual(m6)	4	12
##	70	70	dodge	ram 1500 pickup		4.7	2008	8	manual(m6)	4	9
##	71	71	dodge	ram 1500 pickup			1999	8	auto(14)	4	11
##	72	72	dodge	ram 1500 pickup			1999	8	manual(m5)	4	11
##	73	73	dodge	ram 1500 pickup		5.7	2008	8	auto(15)	4	13
	74	74	dodge	ram 1500 pickup			1999	8	auto(14)	4	11
##		75	ford	expedition 2			1999	8	auto(14)	r	11
	76	76	ford	expedition 2			1999	8	auto(14)	r	11
	77	77	ford	expedition 2			2008	8	auto(16)	r	12
	78	78	ford	explorer 4			1999	6	auto(15)	4	14
	79	79	ford	explorer 4			1999		manual(m5)	4	15
	80	80	ford	explorer 4			1999	6	auto(15)	4	14
##		81	ford	explorer 4			2008	6	auto(15)	4	13
	82	82	ford	explorer 4			2008	8	auto(16)	4	13
	83	83	ford	explorer 4			1999	8	auto(14)	4	13
	84	84	ford	f150 pickup			1999	6	auto(14)	4	14
##		85	ford	f150 pickup			1999		manual(m5)	4	14
	86	86	ford	f150 pickup 4			1999		manual (m5)	4	13
	87	87	ford	f150 pickup 4			1999	8	auto(14)	4	13
	88	88	ford	f150 pickup 4			2008	8	auto(14) auto(14)	4	13
	89	89	ford	f150 pickup 4			1999	8	auto(14)	4	11
##		90	ford	f150 pickup 4			2008	8	auto(14) auto(14)	4	13
##	<i>9</i> 0	90	1010	1190 bickub	- wu	5.4	2000	0	aut0(14)	4	13

	91	91	ford	mustang		1999		manual(m5)	r	18
	92	92	ford	mustang		1999	6	auto(14)	r	18
##	93	93	ford	mustang		2008	6	manual(m5)	r	17
##	94	94	ford	mustang		2008	6	auto(15)	r	16
##	95	95	ford	mustang		1999	8	auto(14)	r	15
##	96	96	ford	mustang		1999	8	manual(m5)	r	15
##	97	97	ford	mustang			8	manual(m5)	r	15
##	98	98	ford	mustang			8	auto(15)	r	15
##	99	99	ford	mustang		2008	8	manual(m6)	r	14
##	100		honda	civic		1999	4	manual(m5)	f	28
##	101	101	honda	civic		1999	4	auto(14)	f	24
##	102		honda	civic	1.6	1999	4	manual(m5)	f	25
##	103	103	honda	civic	1.6	1999	4	manual(m5)	f	23
##	104	104	honda	civic	1.6	1999	4	auto(14)	f	24
##	105	105	honda	civic	1.8	2008	4	manual(m5)	f	26
##	106	106	honda	civic	1.8	2008	4	auto(15)	f	25
##	107	107	honda	civic	1.8	2008	4	auto(15)	f	24
##	108	108	honda	civic	2.0	2008	4	manual(m6)	f	21
##	109	109	hyundai	sonata	2.4	1999	4	auto(14)	f	18
##	110	110	hyundai	sonata	2.4	1999	4	manual(m5)	f	18
##	111	111	hyundai	sonata	2.4	2008	4	auto(14)	f	21
##	112	112	hyundai	sonata	2.4	2008	4	manual(m5)	f	21
##	113	113	hyundai	sonata	2.5	1999	6	auto(14)	f	18
##	114	114	hyundai	sonata	2.5	1999	6	manual(m5)	f	18
##	115	115	hyundai	sonata	3.3	2008	6	auto(15)	f	19
##	116	116	hyundai	tiburon	2.0	1999	4	auto(14)	f	19
##	117	117	hyundai	tiburon	2.0	1999	4	manual(m5)	f	19
##	118	118	hyundai	tiburon	2.0	2008	4	manual(m5)	f	20
##	119	119	hyundai	tiburon	2.0	2008	4	auto(14)	f	20
##	120	120	hyundai	tiburon	2.7	2008	6	auto(14)	f	17
##	121	121	hyundai	tiburon	2.7	2008	6	manual(m6)	f	16
##	122	122	hyundai	tiburon	2.7	2008	6	manual(m5)	f	17
##	123	123	jeep	grand cherokee 4wd	3.0	2008	6	auto(15)	4	17
##	124	124	jeep	grand cherokee 4wd	3.7	2008	6	auto(15)	4	15
##	125	125	jeep	grand cherokee 4wd	4.0	1999	6	auto(14)	4	15
##	126	126	jeep	grand cherokee 4wd	4.7	1999	8	auto(14)	4	14
##	127	127	jeep	grand cherokee 4wd	4.7	2008	8	auto(15)	4	9
##	128	128	jeep	grand cherokee 4wd	4.7	2008	8	auto(15)	4	14
##	129	129	jeep	grand cherokee 4wd	5.7	2008	8	auto(15)	4	13
##	130	130	jeep	grand cherokee 4wd	6.1	2008	8	auto(15)	4	11
##	131	131	land rover	range rover	4.0	1999	8	auto(14)	4	11
##	132	132	land rover	range rover	4.2	2008	8	auto(s6)	4	12
##	133	133	land rover	range rover	4.4	2008	8	auto(s6)	4	12
##	134	134	land rover	range rover	4.6	1999	8	auto(14)	4	11
##	135	135	lincoln	navigator 2wd	5.4	1999	8	auto(14)	r	11
##	136	136	lincoln	navigator 2wd	5.4	1999	8	auto(14)	r	11
##	137	137	lincoln	navigator 2wd	5.4	2008	8	auto(16)	r	12
##	138	138	mercury	mountaineer 4wd	4.0	1999	6	auto(15)	4	14
##	139	139	mercury	mountaineer 4wd	4.0	2008	6	auto(15)	4	13
	140		mercury	mountaineer 4wd		2008	8	auto(16)	4	13
	141		mercury	mountaineer 4wd		1999	8	auto(14)	4	13
	142		nissan	altima		1999		manual(m5)	f	21
	143		nissan	altima		1999	4	auto(14)	f	19
	144		nissan	altima		2008	4	auto(av)	f	23

##	145		nissan	altima		2008		manual(m6)	f	23
##	146		nissan	altima		2008	6	manual(m6)	f	19
##	147	147	nissan	altima	3.5	2008	6	auto(av)	f	19
##	148	148	nissan	maxima		1999	6	auto(14)	f	18
##	149	149	nissan	maxima	3.0	1999	6	manual(m5)	f	19
##	150	150	nissan	maxima	3.5	2008	6	auto(av)	f	19
##	151	151	nissan	pathfinder 4wd	3.3	1999	6	auto(14)	4	14
##	152	152	nissan	pathfinder 4wd	3.3	1999	6	manual(m5)	4	15
##	153	153	nissan	pathfinder 4wd	4.0	2008	6	auto(15)	4	14
##	154	154	nissan	pathfinder 4wd	5.6	2008	8	auto(s5)	4	12
##	155	155	pontiac	grand prix	3.1	1999	6	auto(14)	f	18
##	156	156	pontiac	grand prix	3.8	1999	6	auto(14)	f	16
##	157	157	pontiac	grand prix	3.8	1999	6	auto(14)	f	17
##	158	158	pontiac	grand prix	3.8	2008	6	auto(14)	f	18
##	159	159	pontiac	grand prix	5.3	2008	8	auto(s4)	f	16
##	160	160	subaru	forester awd	2.5	1999	4	manual(m5)	4	18
##	161	161	subaru	forester awd	2.5	1999	4	auto(14)	4	18
##	162	162	subaru	forester awd	2.5	2008	4	manual(m5)	4	20
##	163	163	subaru	forester awd	2.5	2008	4	manual(m5)	4	19
##	164	164	subaru	forester awd	2.5	2008	4	auto(14)	4	20
##	165	165	subaru	forester awd	2.5	2008	4	auto(14)	4	18
##	166	166	subaru	impreza awd	2.2	1999	4	auto(14)	4	21
##	167	167	subaru	impreza awd	2.2	1999	4	manual(m5)	4	19
##	168	168	subaru	impreza awd	2.5	1999	4	manual(m5)	4	19
##	169	169	subaru	impreza awd	2.5	1999	4	auto(14)	4	19
##	170	170	subaru	impreza awd	2.5	2008	4	auto(s4)	4	20
##	171	171	subaru	impreza awd	2.5	2008	4	auto(s4)	4	20
##	172	172	subaru	impreza awd	2.5	2008	4	manual(m5)	4	19
##	173	173	subaru	impreza awd	2.5	2008	4	manual(m5)	4	20
##	174	174	toyota	4runner 4wd	2.7	1999	4	manual(m5)	4	15
##	175	175	toyota	4runner 4wd	2.7	1999	4	auto(14)	4	16
##	176	176	toyota	4runner 4wd	3.4	1999	6	auto(14)	4	15
##	177	177	toyota	4runner 4wd	3.4	1999	6	manual(m5)	4	15
##	178	178	toyota	4runner 4wd	4.0	2008	6	auto(15)	4	16
##	179	179	toyota	4runner 4wd	4.7	2008	8	auto(15)	4	14
##	180	180	toyota	camry	2.2	1999	4	manual(m5)	f	21
##	181	181	toyota	camry	2.2	1999	4	auto(14)	f	21
##	182	182	toyota	camry	2.4	2008	4	manual(m5)	f	21
	183		toyota	camry		2008	4	auto(15)	f	21
##	184	184	toyota	camry		1999	6	auto(14)	f	18
##	185	185	toyota	camry		1999	6	manual(m5)	f	18
##	186	186	toyota	camry		2008	6	auto(s6)	f	19
	187		toyota	camry solara		1999	4	auto(14)	f	21
	188		toyota	camry solara		1999	4	manual(m5)	f	21
##	189	189	toyota	camry solara		2008	4	manual(m5)	f	21
	190		toyota	camry solara		2008	4	auto(s5)	f	22
	191		toyota	camry solara		1999	6	auto(14)	f	18
	192		toyota	camry solara		1999		manual(m5)	f	18
	193		toyota	camry solara		2008	6	auto(s5)	f	18
	194		toyota	corolla		1999	4	auto(13)	f	24
	195		toyota	corolla		1999	4	auto(14)	f	24
	196		toyota	corolla		1999		manual(m5)	f	26
	197		toyota	corolla		2008		manual(m5)	f	28
	198		toyota	corolla		2008	4	auto(14)	f	26
	_00		Joyoua	5515114	1.0		-	~~~~ (II)	-	

```
## 199 199
                   toyota land cruiser wagon 4wd
                                                      4.7 1999
                                                                   8
                                                                       auto(14)
                                                                                       11
## 200 200
                                                                                   4
                                                                                       13
                   toyota land cruiser wagon 4wd
                                                      5.7 2008
                                                                   8
                                                                       auto(s6)
                                                                                       15
## 201 201
                   toyota
                                toyota tacoma 4wd
                                                      2.7 1999
                                                                   4 manual(m5)
## 202 202
                                                                                       16
                                                      2.7 1999
                   toyota
                                toyota tacoma 4wd
                                                                       auto(14)
## 203 203
                   toyota
                                toyota tacoma 4wd
                                                      2.7 2008
                                                                    manual(m5)
                                                                                   4
                                                                                       17
## 204 204
                                                                                   4
                                                                                       15
                   toyota
                                toyota tacoma 4wd
                                                      3.4 1999
                                                                    manual(m5)
## 205 205
                                                                                       15
                   toyota
                                toyota tacoma 4wd
                                                      3.4 1999
                                                                   6
                                                                       auto(14)
## 206 206
                   toyota
                                toyota tacoma 4wd
                                                      4.0 2008
                                                                   6
                                                                    manual(m6)
                                                                                   4
                                                                                       15
## 207 207
                   toyota
                                toyota tacoma 4wd
                                                      4.0 2008
                                                                   6
                                                                       auto(15)
                                                                                       16
## 208 208
                                                                                       21
              volkswagen
                                                gti
                                                      2.0 1999
                                                                     manual(m5)
                                                                                   f
## 209 209
              volkswagen
                                                      2.0 1999
                                                                       auto(14)
                                                                                   f
                                                                                       19
                                                gti
## 210 210
                                                                                       21
                                                      2.0 2008
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              volkswagen
                                                gti
                                                                     manual(m6)
## 211 211
              volkswagen
                                                      2.0 2008
                                                                       auto(s6)
                                                                                   f
                                                                                       22
                                                gti
## 212 212
              volkswagen
                                                gti
                                                                     manual(m5)
                                                      2.8 1999
                                                                                   f
                                                                                       17
## 213 213
                                                                                   f
                                                                                       33
              volkswagen
                                             jetta
                                                      1.9 1999
                                                                     manual(m5)
## 214 214
              volkswagen
                                             jetta
                                                      2.0
                                                          1999
                                                                     manual(m5)
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## 215 215
                                                                                   f
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              volkswagen
                                                      2.0 1999
                                                                       auto(14)
                                             jetta
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## 216 216
              volkswagen
                                                      2.0 2008
                                                                       auto(s6)
                                             jetta
## 217 217
                                                      2.0 2008
                                                                                       21
              volkswagen
                                                                   4 manual(m6)
                                                                                   f
                                             jetta
## 218 218
              volkswagen
                                             jetta
                                                      2.5 2008
                                                                       auto(s6)
                                                                                   f
                                                                                       21
## 219 219
              volkswagen
                                             jetta
                                                      2.5 2008
                                                                   5 manual(m5)
                                                                                   f
                                                                                       21
## 220 220
              volkswagen
                                                      2.8 1999
                                                                                       16
                                             jetta
                                                                       auto(14)
## 221 221
                                                                                       17
              volkswagen
                                             jetta
                                                      2.8 1999
                                                                   6 manual(m5)
                                                                                   f
## 222 222
                                                      1.9 1999
                                                                                   f
                                                                                       35
              volkswagen
                                        new beetle
                                                                    manual(m5)
## 223 223
                                                                                       29
              volkswagen
                                        new beetle
                                                      1.9 1999
                                                                       auto(14)
                                                                                   f
## 224 224
              volkswagen
                                        new beetle
                                                      2.0 1999
                                                                    manual(m5)
                                                                                   f
                                                                                       21
## 225 225
              volkswagen
                                                      2.0
                                                          1999
                                                                                   f
                                                                                       19
                                        new beetle
                                                                       auto(14)
## 226 226
                                                                                       20
              volkswagen
                                        new beetle
                                                      2.5
                                                          2008
                                                                   5
                                                                     manual(m5)
                                                                                   f
## 227 227
                                                      2.5 2008
                                                                                   f
                                                                                       20
              volkswagen
                                        new beetle
                                                                       auto(s6)
## 228 228
              volkswagen
                                                      1.8 1999
                                                                   4
                                                                    manual(m5)
                                                                                   f
                                                                                       21
                                            passat
## 229 229
              volkswagen
                                            passat
                                                      1.8
                                                          1999
                                                                   4
                                                                       auto(15)
                                                                                   f
                                                                                       18
## 230 230
              volkswagen
                                                      2.0 2008
                                                                   4
                                                                       auto(s6)
                                                                                   f
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                                            passat
   231 231
                                                                                       21
##
              volkswagen
                                                      2.0 2008
                                                                     manual(m6)
                                            passat
  232 232
                                                                                       16
##
              volkswagen
                                                      2.8 1999
                                                                       auto(15)
                                                                                   f
                                            passat
   233 233
##
              volkswagen
                                                      2.8
                                                          1999
                                                                     manual(m5)
                                                                                   f
                                                                                       18
                                            passat
##
   234 234
                                                                                   f
                                                                                       17
              volkswagen
                                            passat
                                                      3.6 2008
                                                                       auto(s6)
##
       hwy fl
                     class
## 1
        29
                   compact
## 2
        29
                   compact
             p
##
  3
        31
                   compact
##
        30
             p
                   compact
## 5
        26
                   compact
##
   6
        26
             p
                   compact
##
        27
                   compact
## 8
        26
                   compact
             p
## 9
        25
             р
                   compact
## 10
        28
                   compact
             p
##
  11
        27
             p
                   compact
##
  12
        25
                   compact
             р
        25
##
   13
                   compact
             p
##
   14
        25
                   compact
             p
## 15
        25
             p
                   compact
## 16
        24
                  midsize
             р
## 17
        25
                   midsize
             р
```

##	18	23	р	midsize
##	19	20	r	suv
##	20	15	е	suv
##	21	20	r	suv
##	22	17	r	suv
##	23	17	r	suv
##	24	26	р	2seater
##	25	23	р	2seater
##	26	26	р	2seater
##	27	25	р	2seater
##	28	24	р	2seater
##	29	19	r	suv
##	30	14	е	suv
##	31	15	r	suv
##	32	17	d	suv
##	33	27	r	midsize
##	34	30	r	midsize
##	35	26	r	midsize
##	36	29	r	midsize
##	37	26	r	midsize
##	38	24	r	minivan
##	39	24	r	minivan
##	40	22	r	minivan
##	41	22	r	minivan
##	42	24	r	minivan
##	43	24	r	minivan
##	44	17	е	minivan
##	45	22	r	minivan
##	46	21	r	minivan
##	47	23	r	minivan
##	48	23	r	minivan
##	49	19	r	pickup
##	50	18	r	pickup
##	51	17	r	pickup
##	52	17	r	pickup
##	53	19	r	pickup
##	54	19	r	pickup
##	55	12	е	pickup
##	56	17	r	pickup
##	57	15	r	pickup
##	58	17	r	suv
##	59	17	r	suv
##	60	12	e	suv
##	61	17	r	suv
##	62	16	r	suv
##	63	18	r	suv
##	64	15	r	suv
##	65	16	r	pickup
##	66	12	e	pickup
##	67	17	r	pickup
##	68	17	r	pickup
##	69	16	r	pickup
##	70	12	e	pickup
##	71	15	r	pickup
π	' -	10	_	Promup

```
## 72
        16
            r
                   pickup
## 73
        17
             r
                   pickup
##
  74
        15
             r
                   pickup
##
  75
        17
             r
                       suv
##
   76
        17
                       suv
##
   77
        18
             r
                       suv
##
  78
        17
                       suv
             r
## 79
        19
                       suv
##
   80
        17
             r
                       suv
##
  81
        19
                       suv
##
  82
        19
             r
                       suv
##
  83
        17
                       suv
##
   84
        17
             r
                   pickup
## 85
        17
                   pickup
##
  86
        16
                   pickup
             r
## 87
        16
             r
                   pickup
##
  88
        17
                   pickup
##
   89
        15
                   pickup
##
  90
        17
                   pickup
## 91
        26
             r subcompact
##
  92
        25
             r subcompact
## 93
             r subcompact
## 94
             r subcompact
        24
##
  95
        21
             r subcompact
## 96
             r subcompact
##
  97
             r subcompact
## 98
             r subcompact
##
   99
        20
             p subcompact
        33
## 100
             r subcompact
## 101
        32
             r subcompact
## 102
        32
             r subcompact
## 103
        29
             p subcompact
##
   104
        32
             r subcompact
##
  105
        34
             r subcompact
   106
        36
             r subcompact
##
        36
##
  107
             c subcompact
## 108
        29
             p subcompact
## 109
        26
             r
                  midsize
        27
## 110
             r
                  midsize
## 111
        30
                  midsize
             r
## 112
        31
                  midsize
## 113
        26
                  midsize
## 114
        26
                  midsize
## 115
        28
                  midsize
## 116
        26
             r subcompact
## 117
        29
             r subcompact
## 118
        28
             r subcompact
## 119
        27
             r subcompact
## 120
        24
             r subcompact
## 121
        24
             r subcompact
        24
## 122
            r subcompact
        22
             d
## 123
                       suv
## 124
        19
            r
                       suv
## 125
        20
                       suv
```

```
## 126
        17
                       suv
## 127
        12
             е
                       suv
## 128
        19
                       suv
## 129
        18
             r
                       suv
## 130
        14
             р
                       suv
## 131
        15
                       suv
## 132
        18
                       suv
            r
## 133
        18
             r
                       suv
## 134
        15
             p
                       suv
## 135
        17
             r
                       suv
## 136
        16
             p
                       suv
## 137
        18
                       suv
## 138
        17
             r
                       suv
## 139
        19
                       suv
## 140
        19
                       suv
             r
## 141
        17
             r
                       suv
## 142
        29
                  compact
             r
## 143
        27
             r
                  compact
## 144
        31
                  midsize
            r
## 145
        32
                  midsize
## 146
        27
                  midsize
## 147
        26
                  midsize
             p
## 148
        26
                  midsize
            r
        25
## 149
             r
                  midsize
## 150
        25
                  midsize
             p
## 151
        17
            r
                       suv
## 152
        17
                       suv
## 153
        20
                       suv
             р
## 154
        18
                       suv
             p
## 155
        26
                  midsize
            r
## 156
        26
             p
                  midsize
## 157
        27
             r
                  midsize
## 158
        28
                  midsize
## 159
        25
                  midsize
             р
        25
## 160
             r
                       suv
## 161
        24
            r
                       suv
        27
## 162
                       suv
## 163
        25
             р
                       suv
## 164
        26
             r
                       suv
## 165
        23
             р
                       suv
## 166
        26
             r subcompact
## 167
        26
             r subcompact
##
  168
        26
             r subcompact
## 169
        26
             r subcompact
## 170
        25
                  compact
             p
## 171
        27
                  compact
             r
## 172
        25
                  compact
             p
## 173
        27
                  compact
## 174
        20
            r
                       suv
## 175
        20
                       suv
## 176
        19
            r
                       suv
        17
## 177
                       suv
## 178
        20
            r
                       suv
## 179
        17
                       suv
```

```
## 180
         29
                  midsize
             r
                  midsize
## 181
        27
             r
## 182
        31
                  midsize
## 183
        31
                  midsize
             r
##
   184
         26
             r
                  midsize
## 185
        26
                  midsize
             r
## 186
         28
                  midsize
             r
## 187
         27
                   compact
             r
## 188
         29
             r
                   compact
## 189
         31
                   compact
             r
   190
         31
             r
                   compact
## 191
         26
                   compact
##
   192
         26
                   compact
             r
         27
## 193
                   compact
## 194
         30
                   compact
             r
## 195
         33
             r
                   compact
## 196
         35
                   compact
             r
##
   197
         37
                   compact
   198
##
        35
                   compact
             r
##
   199
         15
                       suv
##
   200
         18
             r
                       suv
## 201
         20
                   pickup
## 202
        20
                   pickup
             r
        22
## 203
             r
                   pickup
## 204
         17
                   pickup
   205
        19
             r
                   pickup
## 206
        18
                   pickup
##
   207
         20
                   pickup
             r
         29
## 208
                   compact
## 209
         26
             r
                   compact
## 210
        29
             p
                   compact
## 211
        29
             p
                   compact
## 212
         24
                   compact
             r
## 213
        44
             d
                   compact
## 214
         29
                   compact
             r
## 215
        26
                   compact
             r
## 216
         29
             p
                   compact
## 217
        29
             р
                   compact
## 218
        29
                   compact
             r
## 219
        29
                   compact
             r
## 220
         23
             r
                   compact
## 221
        24
             r
                   compact
##
   222
        44
             d subcompact
## 223
         41
             d subcompact
## 224
         29
             r subcompact
## 225
         26
             r subcompact
## 226
        28
             r subcompact
## 227
         29
             r subcompact
##
   228
                  midsize
        29
             р
##
   229
        29
                  midsize
             р
##
   230
        28
                  midsize
             р
## 231
        29
                  midsize
             р
## 232
        26
             р
                  midsize
## 233
        26
                  midsize
             р
```

```
## 234 26 p
                midsize
```

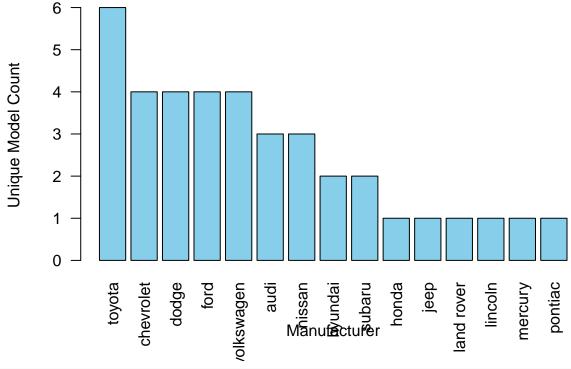
- b. Which variables from mpg dataset are categorical?
- -The categorical variables are manufacturer, model, trans, drv, fl, class
 - c. Which are continuous variables?
- -The continuous variables are displ, year, cyl, cty, hwy
 - 2. Which manufacturer has the most models in this data set? Which model has the most variations? Show your answer.

```
library(dplyr)
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
       intersect, setdiff, setequal, union
##
model_count <- data_mpg %>%
  group_by(manufacturer) %>%
  summarise(model_count = n_distinct(model)) %>%
  arrange(desc(model_count))
top_manufacturer <- model_count[1, ]</pre>
top_manufacturer
## # A tibble: 1 x 2
##
     manufacturer model count
##
     <chr>>
                         <int>
## 1 toyota
  a. Group the manufacturers and find the unique models. Show your codes and result.
library(dplyr)
unique_manufacturer_models <- data_mpg %>%
  group_by(manufacturer) %>%
  summarise(unique_model_count = n_distinct(model)) %>%
  arrange(desc(unique_model_count))
unique_manufacturer_models
## # A tibble: 15 x 2
##
      manufacturer unique_model_count
##
      <chr>>
                                 <int>
                                     6
##
  1 toyota
## 2 chevrolet
                                     4
                                     4
## 3 dodge
## 4 ford
                                     4
## 5 volkswagen
                                     4
## 6 audi
                                     3
                                     3
## 7 nissan
```

```
2
    8 hyundai
                                      2
##
  9 subaru
## 10 honda
                                      1
                                      1
## 11 jeep
## 12 land rover
                                      1
## 13 lincoln
                                      1
## 14 mercury
                                      1
## 15 pontiac
                                      1
```

b. Graph the result by using plot() and ggplot(). Write the codes and its result.

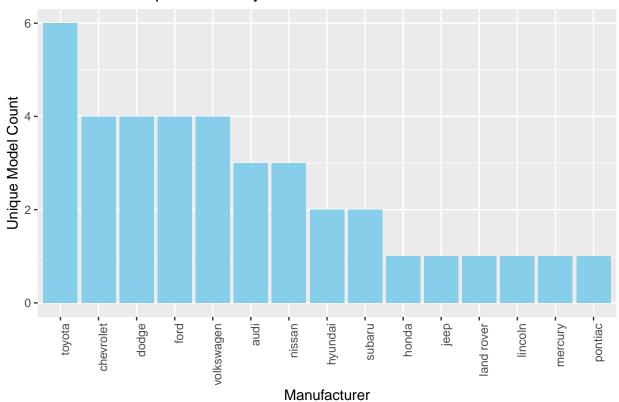
Number of Unique Models by Manufacturer



```
library(ggplot2)

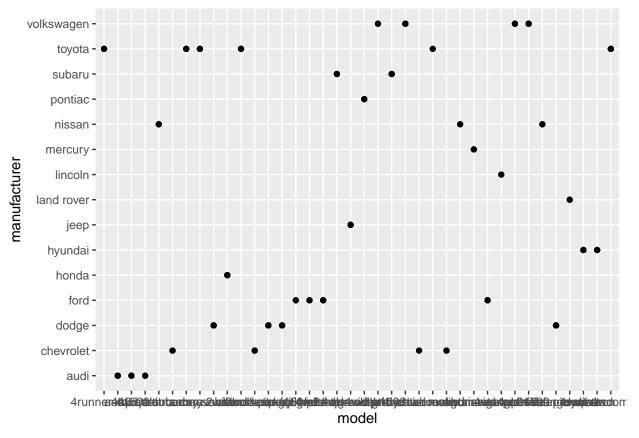
ggplot(unique_manufacturer_models, aes(x = reorder(manufacturer, -unique_model_count), y = unique_model
    geom_bar(stat = "identity", fill = "skyblue") +
    labs(title = "Number of Unique Models by Manufacturer", x = "Manufacturer", y = "Unique Model Count")
    theme(axis.text.x = element_text(angle = 90, hjust = 1))
```

Number of Unique Models by Manufacturer



- 2. Same dataset will be used. You are going to show the relationship of the modeland the manufacturer.
- a. What does ggplot(mpg, aes(model, manufacturer)) + geom_point() show?

ggplot(mpg, aes(model, manufacturer)) + geom_point()



b. For you, is it useful? If not, how could you modify the data to make it more informative?

-For me in its current form is not very useful. The plot only shows each combination of model and manufacturer as a point, but with so many categorical variables and repeated values.

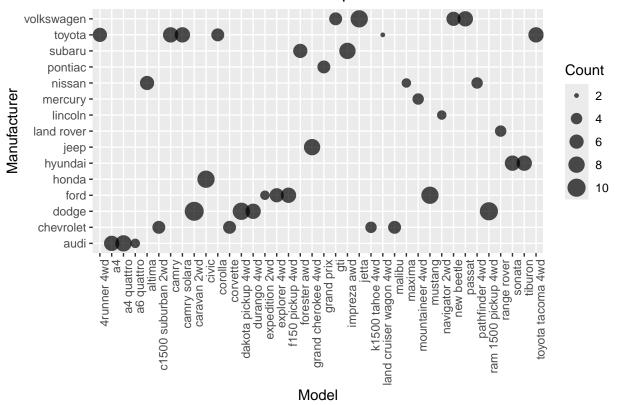
```
library(dplyr)
library(ggplot2)

model_manufacturer_count <- mpg %>%
    group_by(manufacturer, model) %>%
    summarise(count = n()) %>%
    ungroup()

## `summarise()` has grouped output by 'manufacturer'. You can override using the
## `.groups` argument.

ggplot(model_manufacturer_count, aes(x = model, y = manufacturer, size = count)) +
    geom_point(alpha = 0.7) +
    labs(title = "Model-Manufacturer Relationship", x = "Model", y = "Manufacturer", size = "Count") +
    theme(axis.text.x = element_text(angle = 90, hjust = 1))
```

Model-Manufacturer Relationship



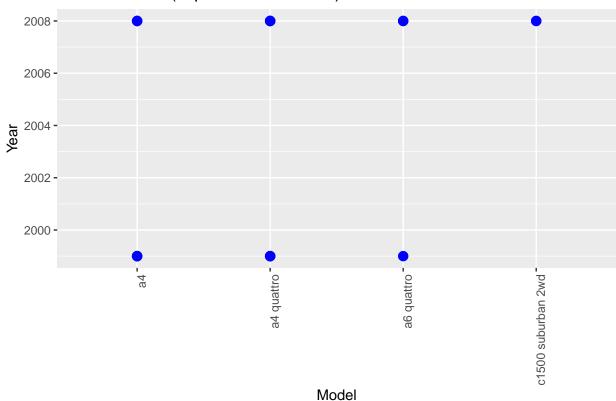
3. Plot the model and the year using ggplot(). Use only the top 20 observations. Write the codes and its results.

```
library(ggplot2)

top_20 <- mpg[1:20, ]

ggplot(top_20, aes(x = model, y = year)) +
    geom_point(color = "blue", size = 3) +
    labs(title = "Model vs Year (Top 20 Observations)", x = "Model", y = "Year") +
    theme(axis.text.x = element_text(angle = 90, hjust = 1))</pre>
```

Model vs Year (Top 20 Observations)



4. Using the pipe (%>%), group the model and get the number of cars per model. Show codes and its result

```
library(dplyr)

cars_per_model <- mpg %>%
    group_by(model) %>%
    summarise(car_count = n()) %>%
    arrange(desc(car_count))

cars_per_model
```

```
## # A tibble: 38 x 2
##
      model
                           car_count
##
      <chr>
                               <int>
    1 caravan 2wd
##
                                  11
    2 ram 1500 pickup 4wd
                                  10
##
##
    3 civic
                                   9
                                   9
##
   4 dakota pickup 4wd
    5 jetta
                                   9
##
##
   6 mustang
                                   9
                                   8
   7 a4 quattro
   8 grand cherokee 4wd
                                   8
##
    9 impreza awd
                                   8
## 10 a4
                                   7
## # i 28 more rows
```

a. Plot using geom_bar() using the top 20 observations only. The graphs should have a title, labels and

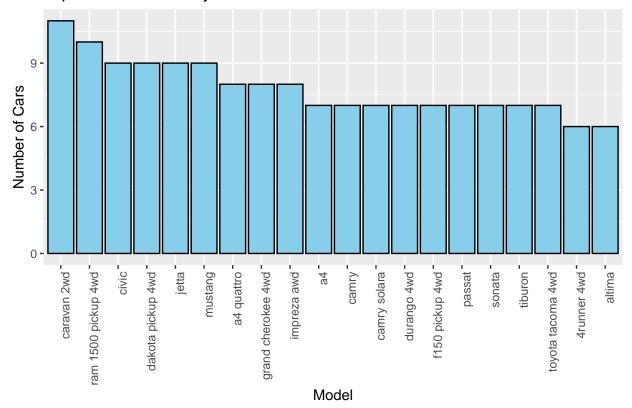
colors. Show code and results.

```
library(dplyr)
library(ggplot2)

top_20 <- mpg %>%
    group_by(model) %>%
    summarise(car_count = n()) %>%
    arrange(desc(car_count)) %>%
    slice_head(n = 20)

ggplot(top_20, aes(x = reorder(model, -car_count), y = car_count)) +
    geom_bar(stat = "identity", fill = "skyblue", color = "black") +
    labs(title = "Top 20 Car Models by Count", x = "Model", y = "Number of Cars") +
    theme(axis.text.x = element_text(angle = 90, hjust = 1))
```

Top 20 Car Models by Count



b. Plot using the geom_bar() + coord_flip() just like what is shown below. Show codes and its result.

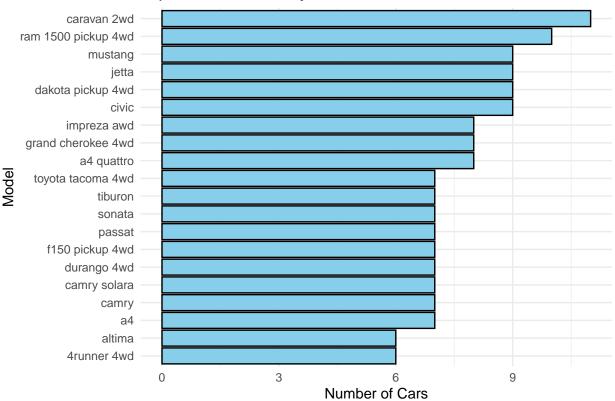
```
library(dplyr)
library(ggplot2)

top_20 <- mpg %>%
    group_by(model) %>%
    summarise(car_count = n()) %>%
    arrange(desc(car_count)) %>%
    slice_head(n = 20)

ggplot(top_20, aes(x = reorder(model, car_count), y = car_count)) +
```

```
geom_bar(stat = "identity", fill = "skyblue", color = "black") +
coord_flip() +
labs(title = "Top 20 Car Models by Count", x = "Model", y = "Number of Cars") +
theme_minimal()
```

Top 20 Car Models by Count

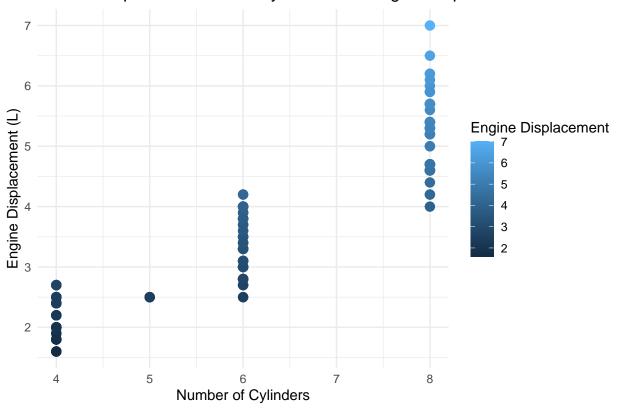


- 5. Plot the relationship between cyl number of cylinders and displ engine displacement using geom_point with aesthetic color = engine displacement. Title should be "Relationship between No. of Cylinders and Engine Displacement".
- a. How would you describe its relationship? Show the codes and its result.

```
library(ggplot2)

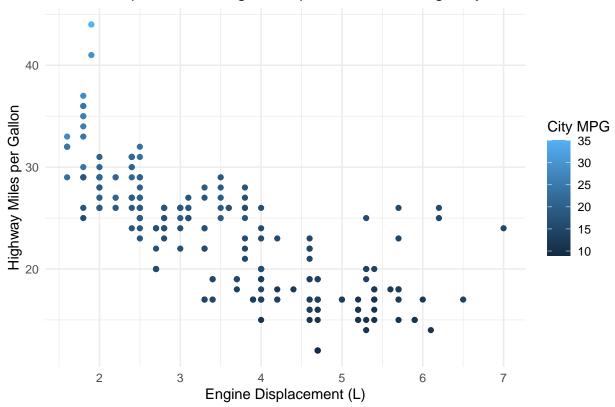
ggplot(mpg, aes(x = cyl, y = displ, color = displ)) +
    geom_point(size = 3) +
    labs(title = "Relationship between No. of Cylinders and Engine Displacement",
        x = "Number of Cylinders",
        y = "Engine Displacement (L)") +
    scale_color_continuous(name = "Engine Displacement") +
    theme_minimal()
```

Relationship between No. of Cylinders and Engine Displacement



6. Plot the relationship between displ (engine displacement) and hwy(highway miles per gallon). Mapped it with a continuous variable you have identified in #1-c. What is its result? Why it produced such output?

Relationship between Engine Displacement and Highway MPG



The plot produced such an output due to the inverse relationship between engine displacement and fuel efficiency metrics.

- 6. Import the traffic.csv onto your R environment.
- a. How many numbers of observation does it have? What are the variables of the traffic dataset the Show your answer.

```
traffic_data <- read.csv("traffic.csv")

observations <- nrow(traffic_data)
vari <- colnames(traffic_data)

observations

## [1] 48120

vari

## [1] "DateTime" "Junction" "Vehicles" "ID"

b. subset the traffic dataset into junctions. What is the R codes and its output?

library(dplyr)

junction_data <- traffic_data %>%
    filter(!is.na(Junction))
```

DateTime Junction Vehicles

junction_data

		0045 44 04	00 00 00	4	4-	00454404004
##	1	2015-11-01	00:00:00	1		20151101001
##	2	2015-11-01	01:00:00	1	13	20151101011
##	3	2015-11-01	02:00:00	1	10	20151101021
##	4	2015-11-01	03:00:00	1	7	20151101031
##	5	2015-11-01	04:00:00	1	9	20151101041
##	6	2015-11-01		1	6	
##	7	2015-11-01			9	
				1	-	
##	8	2015-11-01		1		20151101071
##	9	2015-11-01		1	11	
##	10	2015-11-01	09:00:00	1	12	20151101091
##	11	2015-11-01	10:00:00	1	15	20151101101
##	12	2015-11-01	11:00:00	1	17	20151101111
##	13	2015-11-01	12:00:00	1	16	20151101121
##	14	2015-11-01	13:00:00	1	15	20151101131
##	15	2015-11-01		1	16	20151101141
##	16	2015-11-01		1		20151101151
##	17	2015 11 01		1		20151101151
##	18	2015-11-01		1		20151101171
##	19	2015-11-01	18:00:00	1	17	
##	20	2015-11-01	19:00:00	1	20	20151101191
##	21	2015-11-01	20:00:00	1	17	20151101201
##	22	2015-11-01	21:00:00	1	19	20151101211
##	23	2015-11-01	22:00:00	1	20	20151101221
##	24	2015-11-01	23:00:00	1	15	20151101231
##	25	2015-11-02	00:00:00	1	14	20151102001
##	26	2015-11-02		1		20151102011
##	27	2015-11-02		1		20151102011
##	28	2015-11-02		1		20151102021
##	29	2015-11-02		1		20151102041
##	30	2015-11-02		1	11	
##	31	2015-11-02	06:00:00	1	13	20151102061
##	32	2015-11-02	07:00:00	1	14	20151102071
##	33	2015-11-02	08:00:00	1	12	20151102081
##	34	2015-11-02	09:00:00	1	22	20151102091
##	35	2015-11-02	10:00:00	1	32	20151102101
##	36	2015-11-02	11:00:00	1	31	20151102111
##	37	2015-11-02	12:00:00	1	35	20151102121
##		2015-11-02		1		20151102131
	39	2015-11-02		1		20151102131
						20151102141
##		2015-11-02		1		
##	41	2015-11-02		1		20151102161
##	42	2015-11-02		1		20151102171
##	43	2015-11-02	18:00:00	1	24	20151102181
##	44	2015-11-02	19:00:00	1	26	20151102191
##	45	2015-11-02	20:00:00	1	29	20151102201
##	46	2015-11-02	21:00:00	1	32	20151102211
##	47	2015-11-02	22:00:00	1	30	20151102221
##	48	2015-11-02		1		20151102231
##	49	2015-11-03		1		20151103001
##	50	2015-11-03		1		20151103011
##	51	2015-11-03		1		20151103011
	52	2015 11 03		1		20151103021
	53	2015-11-03		1		20151103041
##	54	2015-11-03	05:00:00	1	11	20151103051

```
## 55
         2015-11-03 06:00:00
                                               11 20151103061
## 56
         2015-11-03 07:00:00
                                      1
                                               14 20151103071
         2015-11-03 08:00:00
##
  57
                                      1
                                               15 20151103081
## 58
         2015-11-03 09:00:00
                                               29 20151103091
                                      1
##
   59
         2015-11-03 10:00:00
                                      1
                                               33 20151103101
         2015-11-03 11:00:00
##
  60
                                      1
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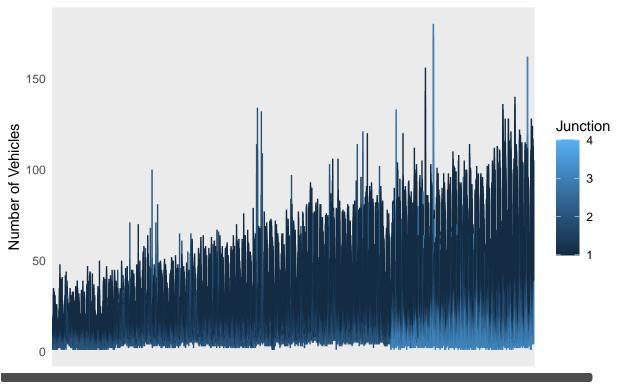
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## 24894 2017-01-03 05:00:00
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## 24896 2017-01-03 07:00:00
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## 24999 2017-01-07 14:00:00
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   [ reached 'max' / getOption("max.print") -- omitted 23121 rows ]
```

c. Plot each junction in a using geom_line(). Show your solution and output.

Vehicle Counts at Each Junction Over Time



DateTime

7. From alexa_file.xlsx, import it to your environment

```
library(readxl)
alexa_data <- read_excel("alexa_file.xlsx")</pre>
```

a. How many observations does alexa_file has? What about the number of columns? Show your solution and answer.

```
num_obser <- nrow(alexa_data)
num_columns <- ncol(alexa_data)
num_obser
## [1] 3150
num_columns</pre>
```

[1] 5

b. group the variations and get the total of each variations. Use dplyr package. Show solution and answer.

```
library(dplyr)

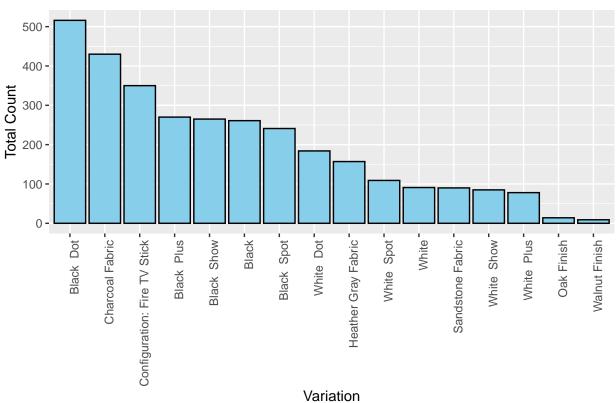
total_varia <- alexa_data %>%
    group_by(variation) %>%
    summarise(total = n())

total_varia
```

```
## # A tibble: 16 x 2
##
      variation
                                   total
##
      <chr>
                                   <int>
##
   1 Black
                                     261
##
  2 Black Dot
                                     516
## 3 Black Plus
                                     270
## 4 Black Show
                                     265
## 5 Black Spot
                                     241
## 6 Charcoal Fabric
                                     430
## 7 Configuration: Fire TV Stick
                                     350
## 8 Heather Gray Fabric
                                     157
## 9 Oak Finish
                                      14
## 10 Sandstone Fabric
                                      90
## 11 Walnut Finish
                                       9
## 12 White
                                      91
## 13 White Dot
                                     184
## 14 White Plus
                                      78
## 15 White Show
                                      85
## 16 White Spot
                                     109
```

c. Plot the variations using the ggplot() function. What did you observe? Complete the details of the graph. Show solution and answer.

Total Count of Each Variation



d. Plot a geom_line() with the date and the number of verified reviews. Complete the details of the graphs. Show your answer and solution.

are some serious flaws, particularly if you are the last one to bed or the first to wake. It doesn't seem like the engineer expensive alternative option to fill the gap. Ordered the Amazon Fire Stick from Best Buy. Instructions were short and

one of the lights by saying "Alexa, turn off the second light". In the Alexa app, I created a 'Group' with ", but lately I've been getting terrible support. The guy that took my call just rambled off a (completely unhelpful) script a

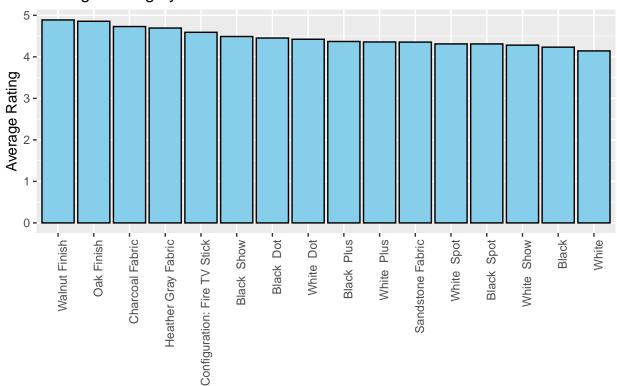
roptimal topad is a bisoprile to neximilate a Ecchar River at the control of the

e. Get the relationship of variations and ratings. Which variations got the most highest in rating? Plot a graph to show its relationship. Show your solution and answer.

```
library(dplyr)
library(ggplot2)
```

```
variation_ratings <- alexa_data %>%
  group_by(variation) %>%
  summarise(avg_rating = mean(rating, na.rm = TRUE))
highest_rated_variation <- variation_ratings %>%
  filter(avg_rating == max(avg_rating))
highest_rated_variation
## # A tibble: 1 x 2
##
     variation
                   avg_rating
     <chr>
##
                        <dbl>
                         4.89
## 1 Walnut Finish
ggplot(variation_ratings, aes(x = reorder(variation, -avg_rating), y = avg_rating)) +
  geom_bar(stat = "identity", fill = "skyblue", color = "black") +
  labs(title = "Average Rating by Variation",
       x = "Variation",
       y = "Average Rating") +
  theme(axis.text.x = element_text(angle = 90, hjust = 1))
```

Average Rating by Variation



Variation