$RWorkSheet_TIAD\#4c$

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```
#1.
#a.
mpgfile <- read.csv("D://RScripts//mpg.csv")
mpgfile</pre>
```

##		X ma	anufacturer	model	displ	year	cyl	trans	${\tt drv}$	cty
##	1	1	audi	a4	1.8	1999	4	auto(15)	f	18
##	2	2	audi	a4	1.8	1999	4	manual(m5)	f	21
##	3	3	audi	a4	2.0	2008	4	manual(m6)	f	20
##	4	4	audi	a4	2.0	2008	4	auto(av)	f	21
##	5	5	audi	a4	2.8	1999	6	auto(15)	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	1.8	1999	4	auto(15)	4	16
##	10	10	audi	a4 quattro	2.0	2008	4	manual(m6)	4	20
##	11	11	audi	a4 quattro	2.0	2008	4	auto(s6)	4	19
##	12	12	audi	a4 quattro	2.8	1999	6	auto(15)	4	15
##	13	13	audi	a4 quattro	2.8	1999	6	manual(m5)	4	17
##	14	14	audi	a4 quattro	3.1	2008	6	auto(s6)	4	17
##	15	15	audi	a4 quattro	3.1	2008	6	manual(m6)	4	15
##	16	16	audi	a6 quattro	2.8	1999	6	auto(15)	4	15
##	17	17	audi	a6 quattro	3.1	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	5.3	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		1999			r	16
##	25	25	chevrolet	corvette		1999	8	auto(14)	r	15
##	26	26	chevrolet	corvette		2008		manual(m6)	r	16
##	27	27	chevrolet	corvette		2008	8	auto(s6)	r	15
##	28	28	chevrolet	corvette		2008		manual(m6)	r	15
	29	29	chevrolet	k1500 tahoe 4wd		2008	8	auto(14)	4	14
	30	30	chevrolet	k1500 tahoe 4wd		2008	8	auto(14)	4	11
	31	31	chevrolet	k1500 tahoe 4wd		1999	8	auto(14)	4	11
##	32	32	chevrolet	k1500 tahoe 4wd		1999	8	auto(14)	4	14
##	33	33	chevrolet	malibu		1999	4	auto(14)	f	19
##	34	34	chevrolet	malibu		2008	4	auto(14)	f	22
##	35	35	chevrolet	malibu		1999	6	auto(14)	f	18
##	36	36	chevrolet	malibu	3.5	2008	6	auto(14)	f	18

##	27	27	ah arrwal a+	ma.1	ibu	2 6	2000	6	011+0(06)	£	17
	37	37	chevrolet				2008	6 4	auto(s6)	f	17
##	38	38	dodge	caravan			1999		auto(13)	f	18
##	39	39	dodge	caravan			1999	6	auto(14)	f	17
	40	40	dodge	caravan			1999	6	auto(14)	f	16
	41	41	dodge	caravan			1999	6	auto(14)	f	16
##	42	42	dodge	caravan			2008	6	auto(14)	f	17
##	43	43	dodge	caravan			2008	6	auto(14)	f	17
##	44	44	dodge	caravan	2wd		2008	6	auto(14)	f	11
##	45	45	dodge	caravan	2wd		1999	6	auto(14)	f	15
##	46	46	dodge	caravan	2wd		1999	6	auto(14)	f	15
##	47	47	dodge	caravan	2wd		2008	6	auto(16)	f	16
##	48	48	dodge	caravan	2wd		2008	6	auto(16)	f	16
##	49	49	dodge	dakota pickup		3.7	2008	6	manual(m6)	4	15
##	50	50	dodge	dakota pickup	4wd	3.7	2008	6	auto(14)	4	14
##	51	51	dodge	dakota pickup	4wd	3.9	1999	6	auto(14)	4	13
##	52	52	dodge	dakota pickup	4wd	3.9	1999	6	manual(m5)	4	14
##	53	53	dodge	dakota pickup	4wd	4.7	2008	8	auto(15)	4	14
##	54	54	dodge	dakota pickup	4wd	4.7	2008	8	auto(15)	4	14
##	55	55	dodge	dakota pickup	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	4wd	3.9	1999	6	auto(14)	4	13
##	59	59	dodge	durango	4wd	4.7	2008	8	auto(15)	4	13
##	60	60	dodge	durango	4wd	4.7	2008	8	auto(15)	4	9
##	61	61	dodge	durango	4wd	4.7	2008	8	auto(15)	4	13
##	62	62	dodge	durango		5.2	1999	8	auto(14)	4	11
##	63	63	dodge	durango		5.7	2008	8	auto(15)	4	13
##	64	64	dodge	durango		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			1999	8	auto(14)	r	11
	76	76	ford	expedition			1999	8	auto(14)	r	11
	77	77	ford	expedition			2008	8	auto(16)	r	12
	78	78	ford	explorer			1999	6	auto(15)	4	14
	79	79	ford	explorer			1999		manual(m5)	4	15
	80	80	ford	explorer			1999	6	auto(15)	4	14
##		81	ford	explorer			2008	6	auto(15)	4	13
	82	82	ford	explorer			2008	8	auto(16)	4	13
	83	83	ford	explorer			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			1999		manual (m5)	4	13
	87	87	ford	f150 pickup			1999	8	auto(14)	4	13
	88	88	ford	f150 pickup			2008	8	auto(14) auto(14)	4	13
	89	89	ford	f150 pickup			1999	8	auto(14) auto(14)	4	11
##		90		= =			2008	8		4	13
##	<i>9</i> 0	90	ford	f150 pickup	- wu	5.4	2000	0	auto(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		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	140	mercury	mountaineer 4wd	4.6	2008	8	auto(16)	4	13
##	141	141	mercury	mountaineer 4wd	5.0	1999	8	auto(14)	4	13
##	142	142	nissan	altima	2.4	1999	4	manual(m5)	f	21
##	143	143	nissan	altima	2.4	1999	4	auto(14)	f	19
##	144	144	nissan	altima	2.5	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		nissan	maxima		1999	6	auto(14)	f	18
##	149	149	nissan	maxima	3.0	1999	6	manual(m5)	f	19
##	150	150	nissan	maxima		2008	6	auto(av)	f	19
##	151	151	nissan	pathfinder 4wd		1999	6	auto(14)	4	14
##	152		nissan	pathfinder 4wd		1999	6	manual(m5)	4	15
##	153		nissan	pathfinder 4wd		2008	6	auto(15)	4	14
##	154		nissan	pathfinder 4wd		2008	8	auto(s5)	4	12
##	155		pontiac	grand prix		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	183	toyota	camry	2.4	2008	4	auto(15)	f	21
##	184	184	toyota	camry	3.0	1999	6	auto(14)	f	18
##	185	185	toyota	camry	3.0	1999	6	manual(m5)	f	18
##	186	186	toyota	camry	3.5	2008	6	auto(s6)	f	19
##	187	187	toyota	camry solara	2.2	1999	4	auto(14)	f	21
##	188	188	toyota	camry solara	2.2	1999	4	manual(m5)	f	21
##	189	189	toyota	camry solara	2.4	2008	4	manual(m5)	f	21
##	190	190	toyota	camry solara	2.4	2008	4	auto(s5)	f	22
##	191	191	toyota	camry solara	3.0	1999	6	auto(14)	f	18
##	192	192	toyota	camry solara		1999	6	manual(m5)	f	18
##	193	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	4	manual(m5)	f	26
	197		toyota	corolla		2008		manual(m5)	f	28
	198		toyota	corolla		2008	4	auto(14)	f	26
	-	-			-			· · -/		-

```
## 199 199
                   toyota land cruiser wagon 4wd
                                                      4.7 1999
                                                                   8
                                                                       auto(14)
                                                                                       11
## 200 200
                                                                                   4
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                   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
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## 204 204
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                   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
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                                                                    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
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                                                      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)
                                                                                   f
                                                                                       21
## 215 215
                                                                                   f
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              volkswagen
                                                      2.0 1999
                                                                       auto(14)
                                             jetta
                                                                                       22
## 216 216
              volkswagen
                                                      2.0 2008
                                                                       auto(s6)
                                             jetta
## 217 217
                                                      2.0 2008
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              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)
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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
             p
        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	p	2seater
##	26	26	p	2seater
##	27	25	p	2seater
##	28	24	p	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	e	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	e	
##	56	17	r	pickup
##	57	15	r	pickup
##	58	17	r	pickup suv
##	59	17		
##	60	12	r	suv
##	61	17	e ~	suv suv
##	62	16	r	
##	63	18	r	suv
	64		r	suv
##		15 16	r	suv
##	65 66	16	r	pickup
##	66	12	e 	pickup
##	67	17	r	pickup
##	68	17	r	pickup
##	69	16	r	pickup
##	70	12	е	pickup
##	71	15	r	pickup

```
## 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
             р
## 148
        26
                  midsize
            r
        25
## 149
             r
                  midsize
## 150
        25
                  midsize
             р
## 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
```

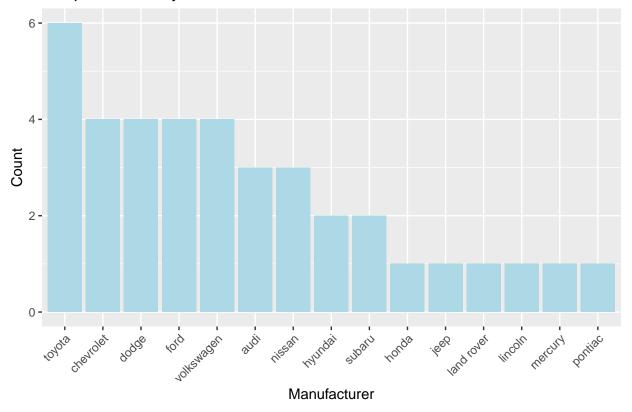
```
## 180
         29
                  midsize
             r
                  midsize
## 181
        27
             r
## 182
        31
                  midsize
## 183
        31
                  midsize
             r
##
   184
         26
             r
                  midsize
## 185
        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
             p
## 232
        26
             p
                  midsize
## 233
        26
                  midsize
             р
```

```
## 234 26 p
                 midsize
#b.
  #The Cathegorical variables would be year, transmission, drv, class, fl
  #The Continuous variables would be displ
mostmanufac_model <- names(which.max(table(mpgfile$manufacturer)))</pre>
mostmanufac_model
## [1] "dodge"
mostmodel_var <- names(which.max(table(mpgfile$model)))</pre>
mostmodel_var
## [1] "caravan 2wd"
library(ggplot2)
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
Manu_mdl_cnt <- mpgfile %>%
  group_by(manufacturer) %>%
  summarise(unique_models = n_distinct(model)) %>%
  arrange(desc(unique_models))
Manu_mdl_cnt
## # A tibble: 15 x 2
##
      manufacturer unique_models
##
      <chr>>
                           <int>
## 1 toyota
                               6
## 2 chevrolet
                                4
## 3 dodge
                               4
## 4 ford
                               4
                               4
## 5 volkswagen
## 6 audi
                               3
## 7 nissan
                               3
```

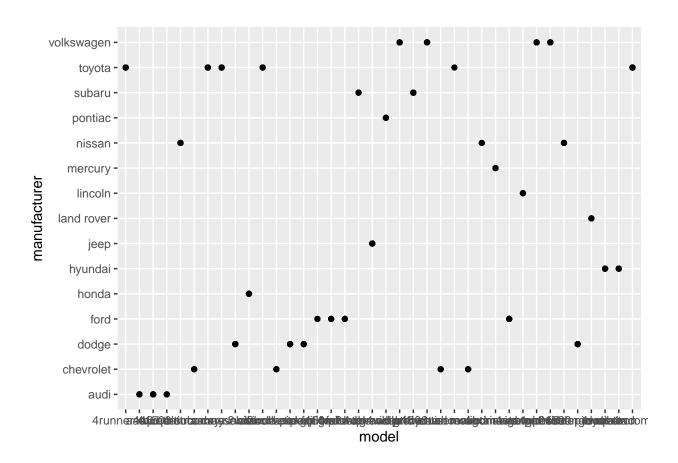
```
## 8 hyundai 2
## 9 subaru 2
## 10 honda 1
## 11 jeep 1
## 12 land rover 1
## 13 lincoln 1
## 14 mercury 1
## 15 pontiac 1
```

```
#b.
ggplot(Manu_mdl_cnt, aes(x = reorder(manufacturer, -unique_models), y = unique_models)) +
geom_bar(stat = "identity", fill = "lightblue") +
labs(title = "Unique Models by Manufacturer", x = "Manufacturer", y = "Count") + theme(axis.text.x = manufacturer)
```

Unique Models by Manufacturer



```
#a
ggplot(mpg, aes(model, manufacturer)) + geom_point()
```



#It creates a scatter plot where each point represents a specific model-manufacturer combination.

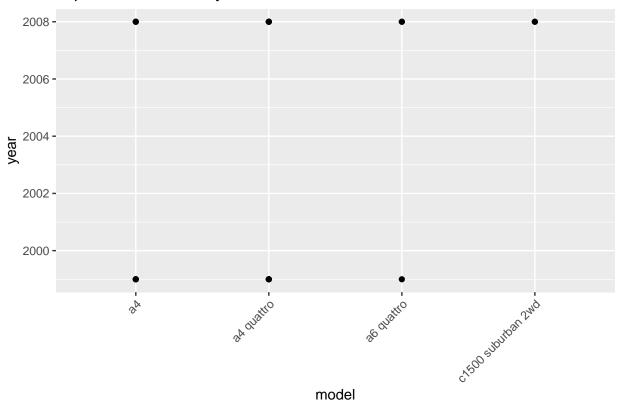
#b
#It is useful but the x-axis have too many categories, making the plot cluttered and unreadable.

```
#3
library(ggplot2)
library(dplyr)

top_20_DATA <- mpgfile %>% head(20)

ggplot(top_20_DATA, aes(x = model, y = year)) +
    geom_point() +
    labs(title = "Top 20 Car Models by Year") +
    theme(axis.text.x = element_text(angle = 45, hjust = 1))
```

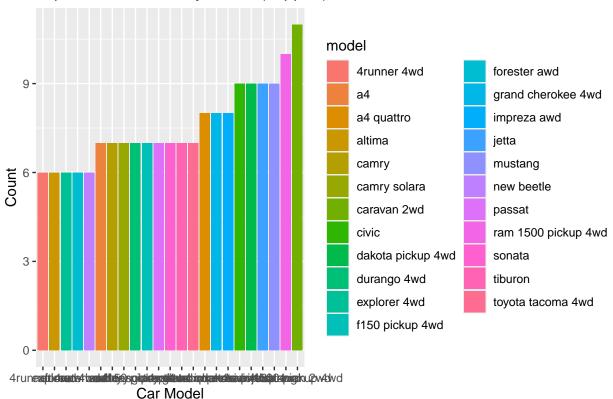
Top 20 Car Models by Year



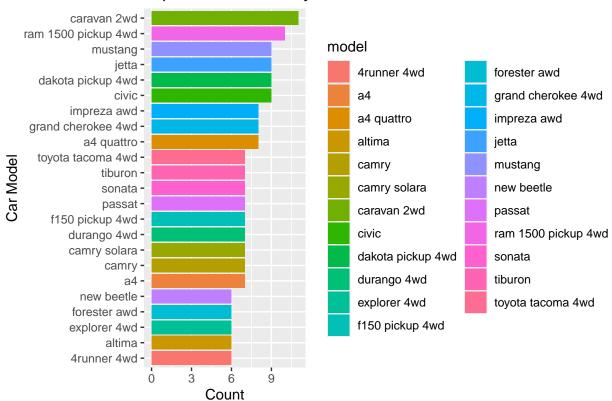
```
model_cnt <- mpgfile %>%
 group_by(model) %>%
 summarise(car_count = n())
model_cnt
## # A tibble: 38 x 2
     model
                       car_count
##
     <chr>
                            <int>
## 1 4runner 4wd
                                6
## 2 a4
                                7
                                8
## 3 a4 quattro
## 4 a6 quattro
                                3
## 5 altima
                                6
## 6 c1500 suburban 2wd
                                5
## 7 camry
                               7
                               7
## 8 camry solara
## 9 caravan 2wd
                               11
                               9
## 10 civic
## # i 28 more rows
```

top_20_DATA <- model_cnt %>% top_n(20, car_count)

Top 20 Car Models by Count (Flipped)



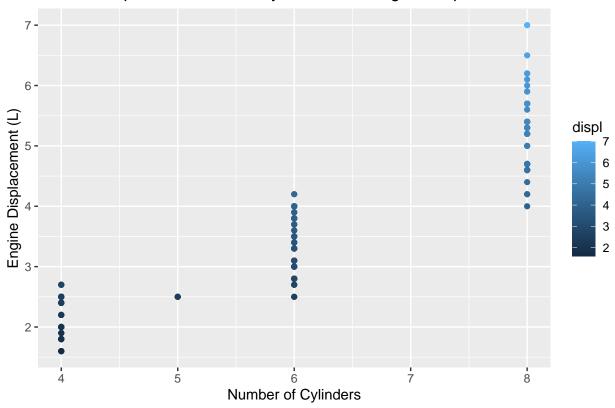
Top 20 Car Models by Count



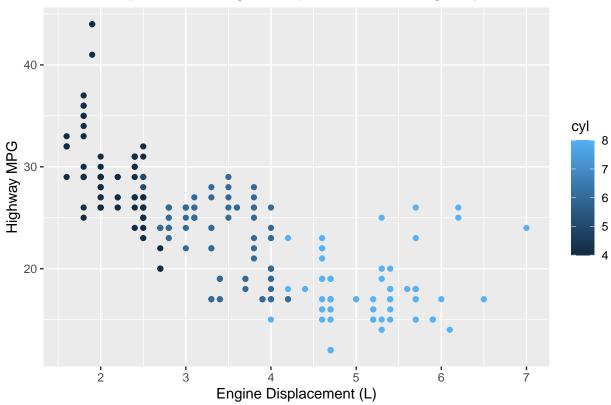
```
#5
#a
#I observed that points with higher cylinder counts (cyl) align with higher values of engine displaceme

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

Relationship between No. of Cylinders and Engine Displacement



Relationship between Engine Displacement and Highway MPG



```
#6.
traffic_data <- read.csv("D://RScripts//traffic.csv")
traffic_data</pre>
```

##			DateTime	Junction	Vehicles	ID
##	1	2015-11-01	00:00:00	1	15	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	05:00:00	1	6	20151101051
##	7	2015-11-01	06:00:00	1	9	20151101061
##	8	2015-11-01	07:00:00	1	8	20151101071
##	9	2015-11-01	08:00:00	1	11	20151101081
##	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	14:00:00	1	16	20151101141
##	16	2015-11-01	15:00:00	1	12	20151101151
##	17	2015-11-01	16:00:00	1	12	20151101161
##	18	2015-11-01	17:00:00	1	16	20151101171
##	19	2015-11-01	18:00:00	1	17	20151101181
##	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	01:00:00	1	12	20151102011
##	27	2015-11-02	02:00:00	1	14	20151102021
##	28	2015-11-02	03:00:00	1	12	20151102031
##	29	2015-11-02	04:00:00	1	12	20151102041
##	30	2015-11-02	05:00:00	1	11	20151102051
##	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
##	38	2015-11-02	13:00:00	1	26	20151102131
##	39	2015-11-02	14:00:00	1	34	20151102141
##	40	2015-11-02	15:00:00	1	30	20151102151
##	41		16:00:00	1	27	20151102161
##	42		17:00:00	1	27	20151102171
	43		18:00:00	1	24	20151102181
	44		19:00:00	1	26	20151102191
	45	2015-11-02		1	29	20151102101
	46	2015-11-02		1	32	20151102201
##	47	2015-11-02		1	30	20151102211
##	48	2015-11-02		1	27	20151102221
##	49	2015-11-03		1	21	20151102201
##	50	2015-11-03		1		20151103001
##	51	2015-11-03		1	19	20151103011
##	52	2015-11-03		1		20151103021
##	53	2015-11-03		1	11	20151103031
##	54	2015-11-03		1	11	20151103041
##	55	2015-11-03		1	11	20151103051
##	56	2015 11 03		1		20151103001
##	57	2015 11 03		1		20151103071
##	58	2015 11 03		1		20151103081
	59	2015 11 03		1		20151103091
	60	2015 11 03		1		20151103101
	61	2015 11 03		1		20151103111
	62	2015-11-03		1		20151103121
	63	2015-11-03		1		20151103131
	64	2015-11-03		1		
				1		20151103151
	65	2015-11-03				20151103161
	66	2015-11-03		1		20151103171
	67	2015-11-03		1		20151103181
	68	2015-11-03		1		20151103191
	69	2015-11-03		1		20151103201
	70	2015-11-03		1		20151103211
	71	2015-11-03		1		20151103221
	72	2015-11-03		1		20151103231
	73	2015-11-04		1		20151104001
	74	2015-11-04		1		20151104011
##	75	2015-11-04	02:00:00	1	13	20151104021

##	76	2015-11-04	03:00:00	1	13	20151104031
##	77	2015-11-04		1	10	20151104041
##	78	2015-11-04	05:00:00	1	12	20151104051
##	79	2015-11-04	06:00:00	1	13	20151104061
##	80	2015-11-04	07:00:00	1	11	20151104071
##	81	2015-11-04	08:00:00	1	13	20151104081
##	82	2015-11-04	09:00:00	1	22	20151104091
##	83	2015-11-04	10:00:00	1	26	20151104101
##	84	2015-11-04	11:00:00	1	27	20151104111
##	85	2015-11-04	12:00:00	1	31	20151104121
##	86	2015-11-04	13:00:00	1	24	20151104131
##	87	2015-11-04	14:00:00	1	23	20151104141
##	88	2015-11-04	15:00:00	1	26	20151104151
##	89	2015-11-04	16:00:00	1	26	20151104161
##	90	2015-11-04	17:00:00	1	24	20151104171
##	91	2015-11-04	18:00:00	1	23	20151104181
##	92	2015-11-04	19:00:00	1	25	20151104191
##	93	2015-11-04	20:00:00	1	26	20151104201
##	94	2015-11-04	21:00:00	1	24	20151104211
##	95	2015-11-04	22:00:00	1	26	20151104221
##	96	2015-11-04	23:00:00	1	24	20151104231
##	97	2015-11-05	00:00:00	1	19	20151105001
##	98	2015-11-05	01:00:00	1	20	20151105011
##	99	2015-11-05	02:00:00	1	18	20151105021
##	100	2015-11-05		1	13	20151105031
##	101	2015-11-05	04:00:00	1	13	20151105041
##	102	2015-11-05		1	9	20151105051
##	103	2015-11-05	06:00:00	1	12	20151105061
##	104	2015-11-05	07:00:00	1	12	20151105071
##	105	2015-11-05	08:00:00	1	15	20151105081
##	106	2015-11-05		1	16	20151105091
##	107	2015-11-05	10:00:00	1	23	20151105101
##	108	2015-11-05	11:00:00	1	24	20151105111
##	109	2015-11-05	12:00:00	1	25	20151105121
##	110	2015-11-05	13:00:00	1	24	20151105131
##	111		14:00:00	1	26	20151105141
##	112	2015-11-05	15:00:00	1	22	20151105151
##	113	2015-11-05	16:00:00	1	20	20151105161
	114	2015-11-05		1		20151105171
	115	2015-11-05		1	22	20151105181
	116	2015-11-05		1	26	20151105191
	117	2015-11-05		1		20151105201
	118	2015-11-05		1		20151105211
	119	2015-11-05		1		20151105221
##	120	2015-11-05		1		20151105231
##	121	2015-11-06		1		20151106001
##	122	2015-11-06		1		20151106011
##	123	2015-11-06		1		20151106021
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## 24999 2017-01-07 14:00:00
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## [ reached 'max' / getOption("max.print") -- omitted 23121 rows ]
str(traffic_data)
## 'data.frame':
                   48120 obs. of 4 variables:
## $ DateTime: chr "2015-11-01 00:00:00" "2015-11-01 01:00:00" "2015-11-01 02:00:00" "2015-11-01 03:0
   $ Junction: int 1 1 1 1 1 1 1 1 1 ...
## $ Vehicles: int 15 13 10 7 9 6 9 8 11 12 ...
## $ ID
             : num 2.02e+10 2.02e+10 2.02e+10 2.02e+10 ...
#This dataset has 4 variables which is DataTime, Junction, Vehicles, and ID.
junction <- subset(traffic_data, select = Junction)</pre>
head(junction)
##
    Junction
## 1
           1
## 2
           1
## 3
## 4
```

11 20170106092

24970 2017-01-06 09:00:00

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5 ## 6

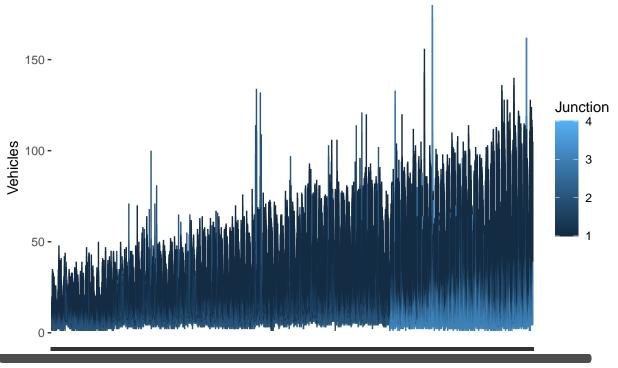
```
## Junction
## 48115     4
## 48116     4
## 48117     4
## 48118     4
## 48119     4
## 48120     4

##c.
library(ggplot2)
ggplot(traffic_data, aes(x = DateTime, y = Vehicles, color = Junction)) +
```

labs(title = "Traffic Counts by Junction", x = "Date & Time", y = "Vehicles")

Traffic Counts by Junction

geom_line() +

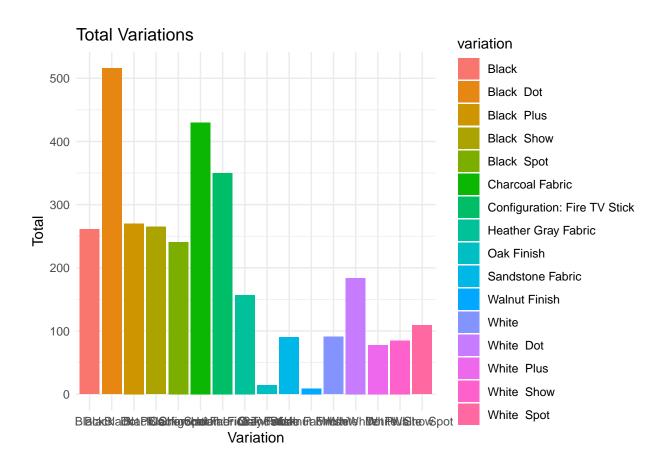


Date & Time

```
#7.
library("readxl")
alexa_data <- read_xlsx("D://RScripts//alexa_file.xlsx")
#a.
str(alexa_data)</pre>
```

```
## tibble [3,150 x 5] (S3: tbl_df/tbl/data.frame)
```

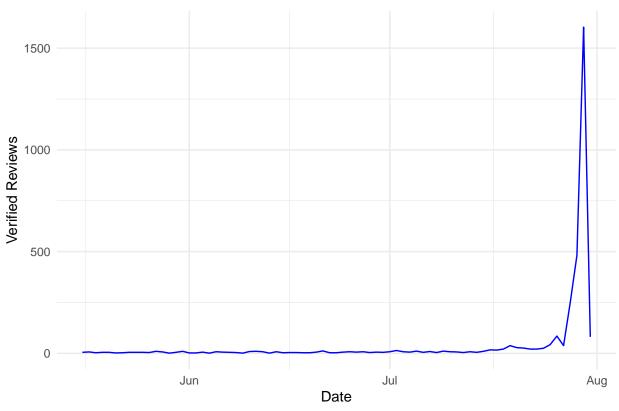
```
## $ rating
                : num [1:3150] 5 5 4 5 5 5 3 5 5 5 ...
## $ date
                    : POSIXct[1:3150], format: "2018-07-31" "2018-07-31" ...
## $ variation : chr [1:3150] "Charcoal Fabric" "Charcoal Fabric" "Walnut Finish" "Charcoal Fabr
## $ verified_reviews: chr [1:3150] "Love my Echo!" "Loved it!" "Sometimes while playing a game, you c
## $ feedback : num [1:3150] 1 1 1 1 1 1 1 1 1 1 ...
ncol(alexa_data)
## [1] 5
#alexa file has 3,150 observations and 5 columns
#b.
library(dplyr)
variation_ttl <- alexa_data %>%
 group_by(variation) %>%
 summarize(total = n())
print(variation_ttl)
## # 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
ggplot(variation_ttl, aes(x = variation, y = total, fill = variation)) +
 geom_bar(stat = "identity") +
 labs(title = "Total Variations", x = "Variation", y = "Total") +
 theme_minimal()
```



```
#d.
library(dplyr)
num_of_verified_reviews <- alexa_data %>%
  group_by(date) %>%
  summarize(count = n()) %>%
  arrange(date)

library(ggplot2)
ggplot(num_of_verified_reviews, aes(x = date, y = count)) +
  geom_line(color = "blue") +
  labs(title = "Verified Reviews Over Time", x = "Date", y = "Verified Reviews") +
  theme_minimal()
```

Verified Reviews Over Time



```
#e.
variation_rate <- alexa_data %>%
  group_by(variation) %>%
  summarize(avg_rating = mean(rating, na.rm = TRUE)) %>%
  arrange(desc(avg_rating))
variation_rate
```

```
## # A tibble: 16 x 2
##
     variation
                                  avg_rating
      <chr>
                                       <dbl>
## 1 Walnut Finish
                                        4.89
## 2 Oak Finish
                                        4.86
## 3 Charcoal Fabric
                                        4.73
## 4 Heather Gray Fabric
                                        4.69
## 5 Configuration: Fire TV Stick
                                        4.59
## 6 Black Show
                                        4.49
## 7 Black Dot
                                        4.45
## 8 White Dot
                                        4.42
## 9 Black Plus
                                        4.37
## 10 White Plus
                                        4.36
## 11 Sandstone Fabric
                                        4.36
                                        4.31
## 12 White Spot
## 13 Black Spot
                                        4.31
                                        4.28
## 14 White Show
## 15 Black
                                        4.23
## 16 White
                                        4.14
```

```
ggplot(variation_rate, aes(x = reorder(variation, avg_rating), y = avg_rating, fill = variation)) +
  geom_bar(stat = "identity") +
  labs(title = "Average Ratings by Variation", x = "Variation", y = "Average Rating") +
  coord_flip()
```

