report

February 6, 2016

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Table 1: a listing

| day | sex | time | income | |
			total_bill	tip
Fri	Female	Dinner	5.75	1.00
			11.35	2.50
			15.38	3.00
			16.32	4.30
			22.75	3.25
		Lunch	10.09	2.00
			13.42	3.48
			15.98	3.00
			16.27	2.50
	Male	Dinner	12.03	1.50
			12.46	1.50
			21.01	3.00
			22.49	3.50
			27.28	4.00
			28.97	3.00
			40.17	4.73
		Lunch	8.58	1.92
			12.16	2.20
			13.42	1.58
Sat	Female	Dinner	3.07	1.00
			7.25	1.00
			10.59	1.61
			10.63	2.00
			12.76	2.23
			12.90	1.10
			13.27	2.50
			14.31	4.00
			14.73	2.20
			15.06	3.00
			15.77	2.23
			16.45	2.47
			16.93	3.07
			17.07	3.00
			19.65	3.00
			20.29	2.75
			20.69	2.45
			20.92	4.08
			22.12	2.88

a footnote

Table 1: a listing, cont'd

day	sex	time	income	
			total_bill	tip
			22.42	3.48
			25.28	5.00
			26.41	1.50
			26.86	3.14
			27.18	2.00
			28.17	6.50
			30.14	3.09
			35.83	4.67
			44.30	2.50
	Male	Dinner	7.74	1.44
			9.55	1.45
			10.07	1.25
			10.51	1.25
			10.77	1.47
			11.02	1.98
			11.24	1.76
			11.59	1.50
			11.61	3.39
			12.02	1.97
			12.60	1.00
			12.69	2.00
			13.28	2.72
			13.37	2.00
			13.81	2.00
			14.00	3.00
			15.01	2.09
			15.36	1.64
			15.53	3.00
			15.69	3.00
			15.81	3.16
			16.04	2.24
			16.31	2.00
			17.59	2.64
			17.78	3.27
			17.81	2.34
			17.82	1.75
			17.92	3.08
				4.08
			18.24	3.76
			18.29	3.76

Table 1: a listing, cont'd

day	sex	time	income	
			total_bill	tip
			18.35	2.50
			18.69	2.31
			19.82	3.18
			20.08	3.15
			20.23	2.01
			20.29	3.21
			20.45	3.00
			20.49	4.06
			20.65	3.35
			21.70	4.30
			22.67	2.00
			24.01	2.00
			24.06	3.60
			24.27	2.03
			25.21	4.29
			25.89	5.16
			26.59	3.41
			28.15	3.00
			29.03	5.92
			30.06	2.00
			31.27	5.00
			32.83	1.17
			38.01	3.00
			38.73	3.00
			39.42	7.58
			48.27	6.73
			48.33	9.00
			50.81	10.00

Table 2: total bill statistics

| sex | statistic | Thur | | Fri | | Sat | Sun |
		Dinner	Lunch	Dinner	Lunch	Dinner	Dinner
Female							
	N	1	31	5	4	28	18
	Mean	18.78	16.65	14.31	13.94	19.68	19.87
	Median	18.78	13.42	15.38	14.70	18.36	17.41
	SD	NA	7.88	6.29	2.87	8.81	7.84
	Min	18.78	8.35	5.75	10.09	3.07	9.60
	Max	18.78	43.11	22.75	16.27	44.30	35.26
Male							
	N		30	7	3	59	58
	Mean		18.71	23.49	11.39	20.80	21.89
	Median		16.98	22.49	12.16	18.24	20.73
	SD		8.02	9.86	2.51	9.84	9.13
	Min		7.51	12.03	8.58	7.74	7.25
	Max		41.19	40.17	13.42	50.81	48.17
Total							
	N	1	61	12	7	87	76
	Mean	18.78	17.66	19.66	12.85	20.44	21.41
	Median	18.78	16.00	18.66	13.42	18.24	19.63
	SD	NA	7.95	9.47	2.84	9.48	8.83
	Min	18.78	7.51	5.75	8.58	3.07	7.25
	Max	18.78	43.11	40.17	16.27	50.81	48.17

Table 3: customer frequency

Gender	Day of the week	time		
		Dinner	Lunch	Total
Female				
	Thur	1 (0.41)	31 (12.70)	32 (13.11)
	Fri	5 (2.05)	4 (1.64)	9 (3.69)
	Sat	28 (11.48)		28 (11.48)
	Sun	18 (7.38)		18 (7.38)
Male				
	Thur		30 (12.30)	30 (12.30)
	Fri	7 (2.87)	3 (1.23)	10 (4.10)
	Sat	59 (24.18)		59 (24.18)
	Sun	58 (23.77)		58 (23.77)

Table 4: total bill statistics

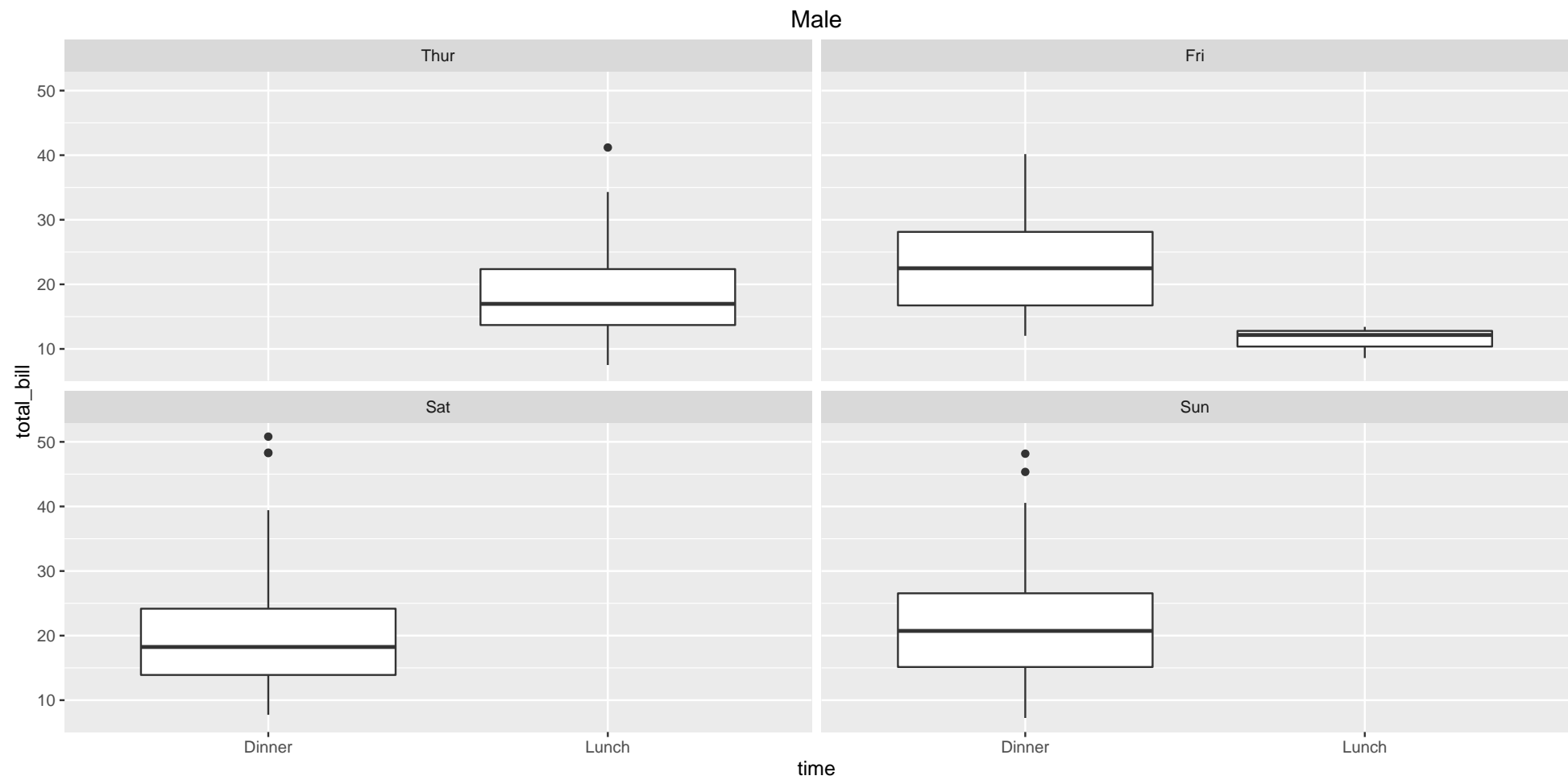|		Dinner							Lunch					
sex	day	N	Mean	Median	SD	Min	Max	N (perc)	N	Mean	Median	SD	Min	Max	N (perc)
Female															
	Thur	1	18.78	18.78	NA	18.78	18.78	1 (0.41)	31	16.65	13.42	7.88	8.35	43.11	31 (12.70)
	Fri	5	14.31	15.38	6.29	5.75	22.75	5 (2.05)	4	13.94	14.70	2.87	10.09	16.27	4 (1.64)
	Sat	28	19.68	18.36	8.81	3.07	44.30	28 (11.48)							
	Sun	18	19.87	17.41	7.84	9.60	35.26	18 (7.38)							
Male															
	Thur								30	18.71	16.98	8.02	7.51	41.19	30 (12.30)
	Fri	7	23.49	22.49	9.86	12.03	40.17	7 (2.87)	3	11.39	12.16	2.51	8.58	13.42	3 (1.23)
	Sat	59	20.80	18.24	9.84	7.74	50.81	59 (24.18)							
	Sun	58	21.89	20.73	9.13	7.25	48.17	58 (23.77)							
Total															
	Thur	1	18.78	18.78	NA	18.78	18.78	1 (0.41)	61	17.66	16.00	7.95	7.51	43.11	61 (25.00)
	Fri	12	19.66	18.66	9.47	5.75	40.17	12 (4.92)	7	12.85	13.42	2.84	8.58	16.27	7 (2.87)
	Sat	87	20.44	18.24	9.48	3.07	50.81	87 (35.66)							
	Sun	76	21.41	19.63	8.83	7.25	48.17	76 (31.15)							

plot A: example for plotting lists
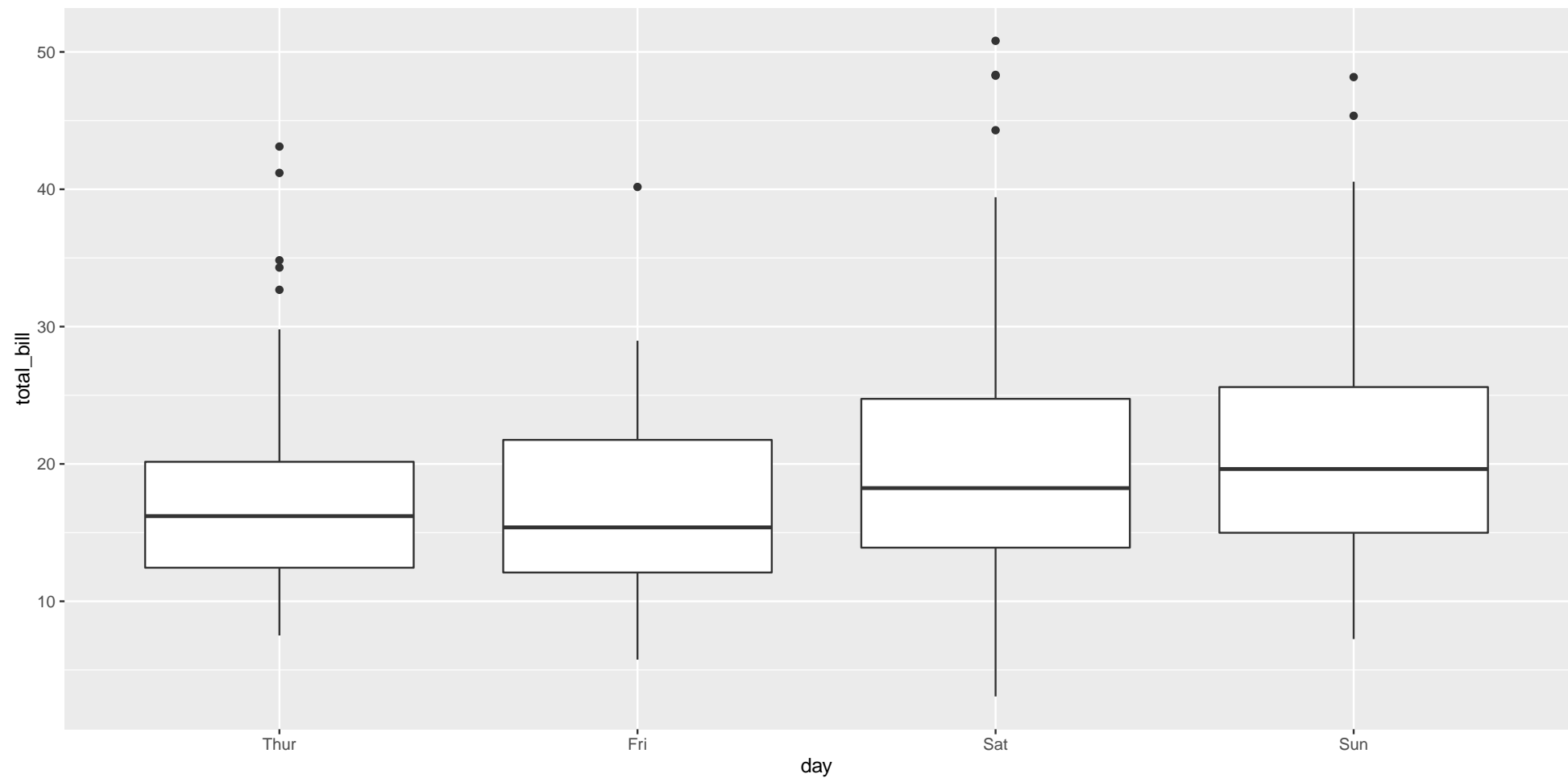
plot B: example for plotting lists
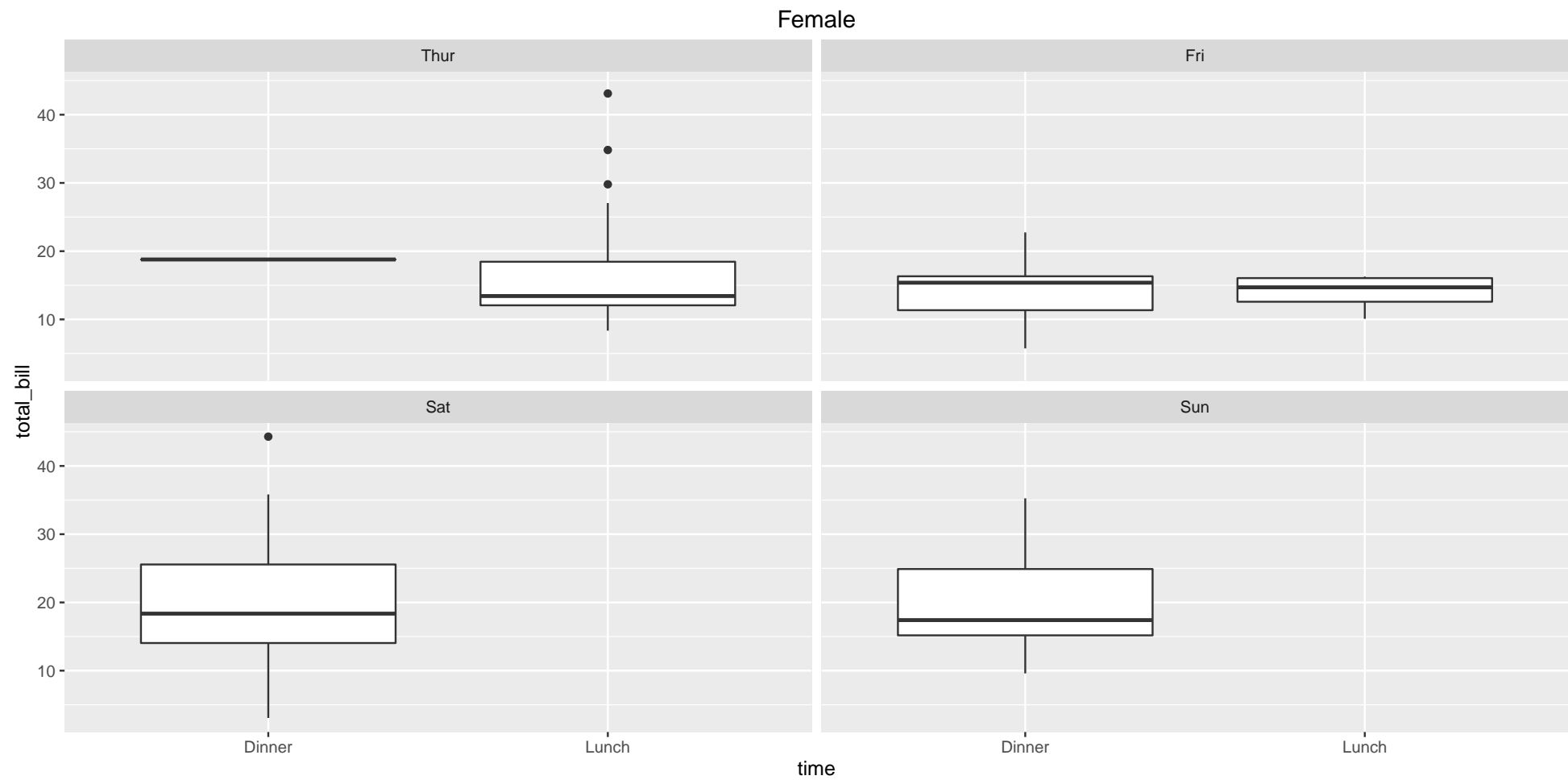
plot B: example for plotting lists, cont'd

plot C: example for base plot