# Gráficos R

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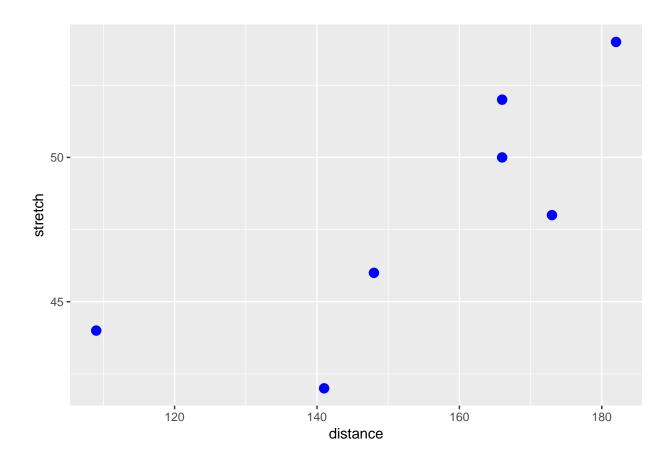
## Graphs with R: Exercises

First we need to load the ggplot2 library.

```
library(ggplot2)
```

### 1) Plot distance against stretch.

```
ex1 \leftarrow data.frame(stretch=c(46,54,48,50,44,42,52), distance=c(148,182,173,166,109,141,166))
ex1
##
     stretch distance
## 1
          46
                   148
          54
                   182
## 2
## 3
          48
                   173
## 4
          50
                   166
## 5
                   109
          44
## 6
          42
                   141
                   166
ggplot(ex1, aes(distance, stretch)) + geom_point(col="blue", size=3)
```

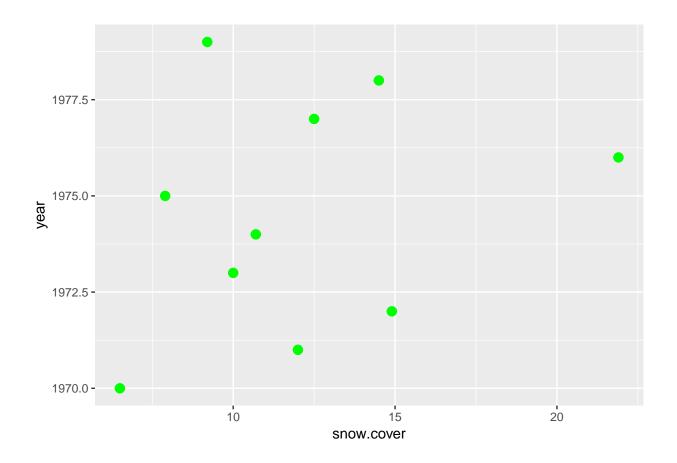


2) The follwing data have ten observations taken during the years 1970-79, on October snow cover for Eurasia (snow cover is in millions of square kilometers).

```
ex2 \leftarrow data.frame(year=c(1970:1979), snow.cover=c(6.5,12.0,14.9,10.0,10.7,7.9,21.9,12.5,14.5,9.2))
ex2
##
      year snow.cover
## 1
      1970
                  6.5
## 2 1971
                  12.0
## 3 1972
                 14.9
## 4
     1973
                  10.0
## 5
     1974
                  10.7
## 6
                  7.9
     1975
## 7
     1976
                 21.9
## 8
                  12.5
     1977
## 9 1978
                  14.5
## 10 1979
                  9.2
```

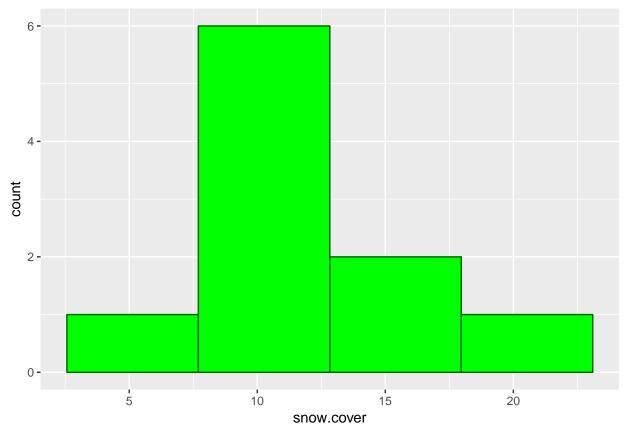
Plot snow.cover versus year.

```
ggplot(ex2, aes(snow.cover, year)) + geom_point(col="green", size=3)
```



#### Plot a histogram of the snow.cover values.

```
ggplot(ex2, aes(snow.cover)) + geom_histogram(fill="green", col="darkgreen", bins = 4)
```



Given the following data (read from csv file):

```
ex3 = read.csv("ex3.csv", na = "NR")
ex3
```

##		Voon	Lawagt Tampanatuma E	Highest Temperature E
##			-	Highest.TemperatureF.
##	1	2014	4	58
##	2	2013	11	61
##	3	2012	13	62
##	4	2011	6	53
##	5	2010	13	57
##	6	2009	6	47
##	7	2008	12	64
##	8	2007	9	72
##	9	2006	16	64
##	10	2005	5	66
##	11	2004	1	58
##	12	2003	7	50
##	13	2002	21	69
##	14	2001	18	54
##	15	2000	3	64
##	16	1999	9	60
##	17	1998	14	65
##	18	1997	4	62
##	19	1996	6	56
##	20	1995	15	64
##	21	1994	-2	55
##	22	1993	21	64

## 23	1992	11	62
## 24	1991	10	55
## 25	1990	24	66
## 26	1989	11	61
## 27	1988	5	53
## 28	1987	8	57
## 29	1986	8	63
## 30	1985	-2	58
## 31	1984	8	57
## 32	1983	12	58
## 33	1982	0	58
## 34	1981	2	49
## 35	1980	17	60
## 36	1979	8	63
## 37	1978	12	58
## 38	1977	-2	44
## 39	1976	-1	56
## 40	1975	15	63
## 41	1974	6	66
## 42	1973	10	66
## 43	1972	5	62
## 44	1971	4	46
## 45	1970	3	51
## 46	1969	11	48
## 47	1968	-1	50
## 48	1967	13	68
## 49	1966	8	62
## 50	1965	9	55
## 51	1964	9	55
## 52	1963	4	51
## 53	1962	11	56
## 54	1961	5	55
## 55	1960	17	54
## 56	1959	14	61
## 57	1958	12 0	53
## 58 ## 59	1957	14	60 48
	1956		
## 60 ## 61	1955 1954	13 7	50 56
## 61 ## 62	1954	21	57
## 62	1953	8	60
## 63 ## 64	1952	11	64
## 65	1950	16	72
## 66	1949	20	61
## 67	1949	0	45
## 68	1947	12	63
## 69	1946	5	62
## 09 ## 70	1945	2	55
## 70	1944	12	62
## 71	1943	10	56
## 72	1943	5	57
## 73 ## 74	1942	10	47
## 75	1940	7	54
## 76	1939	6	55
10	_000	3	00

##	77	1938	6	57
	78	1937	25	66
##	79	1936	-3	54
##	80	1935	-1	58
##	81	1934	6	58
##	82	1933	13	61
	83	1932	24	70
	84	1931	11	56
	85	1930	10	64
	86	1929	8	62
	87	1928	12	58
	88	1927	-1	52
	89	1926	5	54
	90	1925	-2	45
	91	1924	5	57
	92	1923	9	53
	93	1922	7	50
	94	1921	4	57
	95	1920	-1	51
	96	1919	10	61
	97	1918	-4	53
	98	1917	8	51
	99	1916	7	69
		1915	12	58
		1914	-5	58
		1913	18	63
		1912	-3	54
		1911	18	56
		1910	5	48
##		1909	5	57
##		1908	8	50
##		1907	4	64
##		1906	14	62
##		1905	4	53
##		1904	-4	54
##		1903	10	51
		1902	13	51
		1901	8	53
		1900	10	57
##				Coldest.Minimum.TemperatureF.
##	1		44	18
##			43	20
##			46	27
##			40	24
##			49	20
##			38	16
##			53	20
##			54	22
##			45	32
	10		49	18
##			44	15
	12		38	20
	13		50	31
	14		40	27
11 TT			40	21

##	15	51	19
##		41	22
##		47	29
##		44	17
##		40	18
##		54	27
##		35	10
##		41	27
##		42	23
##		43	20
##		46	33
##		44	26
##	27	41	17
##	28	46	19
##	29	45	22
##	30	40	9
##	31	39	19
##		43	21
##		37	15
##		40	14
##		40	27
##		50	20
##		36	21
##		28	12
##		36	15
##		48	29
##		45	23
##		45	18
##		45	15
##		34	16
##		42	14
##		42	24
##		36	13
##		54	25
##		52	19
##		41	16
##		41	22
##			
##		39	20
##		41	25
		42	19
##		38	28
##		38	22
##		39	23
##		43	12
##		43	28
##		40	24
##		41	21
##		49	33
##		45	23
##		47	27
##		59	31
##		43	30
##		33	18
##	68	42	23

##	69	54	26
##		33	15
		38	23
##			
##		38	25
##		43	14
##		36	25
##		36	19
##	76	44	18
##	77	42	17
##	78	50	32
##	79	37	16
##	80	47	16
##		41	16
##		48	28
##		56	33
##		41	24
##		52	22
##		38	
			24
##		44	24
##		40	22
##		40	23
##		33	14
##		40	18
##	92	44	21
##	93	37	16
##	94	42	16
##	95	36	14
##	96	43	26
##	97	29	10
##	98	40	20
##		53	21
	100	47	24
	101	42	9
	102	45	29
	103	38	8
	103	49	26
	104	49	
			27
	106	49	24
	107	41	18
	108	49	20
	109	50	29
	110	42	16
	111	39	13
##	112	39	21
##	113	40	21
##	114	38	27
##	115	46	20
##		Average.Minimum.TemperatureF.	Average.Maximum.TemperatureF.
##	1	21.8	35.2
##		29.3	40.8
##		30.2	44.2
##		24.6	34.7
##		27.0	38.1
##		22.4	33.5
##	U	22.4	33.5

##	7	30.6	42.4
##	8	31.4	43.6
##	9	34.2	47.5
##	10	25.2	37.4
##	11	18.5	31.0
##	12	22.1	32.9
##	13	34.5	45.4
##	14	28.5	38.8
##	15	24.7	37.9
##	16	27.0	40.8
##	17	34.2	45.8
##	18	25.1	39.2
##	19	24.0	37.0
##	20	31.9	43.1
##	21	17.9	33.2
##	22	30.1	42.5
##	23	28.9	42.5
##	24	28.5	41.2
##		35.2	47.5
##	26	30.7	44.0
##	27	23.2	35.8
##		27.1	37.5
##		27.4	40.8
##		23.0	34.6
##		24.6	35.1
##		29.4	39.6
##		19.6	32.5
##		20.2	32.3
##		28.0	39.4
##		26.9	40.2
##		22.0	33.9
##		16.4	27.7
##		20.5	34.2
##		31.3	43.3
##		29.1	41.4
##		28.8	42.1
##		28.0	42.1
##		20.8	33.1
##		18.7	31.5
##		26.3	37.3
##		20.1	33.3
##		31.5	43.2
##		25.7	38.6
##		23.7	35.6
##		29.5	41.8
##		24.0	36.2
##		25.5	39.6
##		21.9	33.5
##		28.8	38.9
##		24.3	38.0
##		26.3	37.5
##		22.2	34.8
##		26.7	37.3
##		25.2	36.7

##	61	23.5	38.1
##		31.8	43.4
##	63	28.9	43.4
##		29.4	44.5
##		34.2	48.6
##		32.6	44.6
##		19.3	31.2
##		30.2	44.1
##		27.0	41.2
##		17.9	32.5
	71	27.8	40.0
	72	24.3	37.2
##		23.9	37.5
##		23.2	35.6
##		18.9	31.0
	76	26.5	37.8
	77	25.9	38.3
	78	33.7	46.9
##		23.3	35.3
##		21.6	36.1
##		28.5	40.8
##		34.0	46.6
##		37.7	48.6
##		26.3	39.2
##		27.0	39.5
##		25.0	38.8
##		26.9	41.0
##		24.0	37.8
##		25.7	38.2
## ##		22.0	34.8
##		24.9 23.6	40.4 36.3
##			
##		21.9 25.7	34.4 40.8
##		16.1	30.8
##		29.4	41.8
##		15.6	27.7
##		26.1	39.6
##		28.3	43.6
	100	28.7	40.2
	101	24.8	38.2
	102	33.5	48.3
	103	16.9	30.5
	104	30.6	41.9
	105	25.7	37.4
	106	28.1	40.8
	107	26.2	39.4
	108	28.0	41.8
	109	33.3	43.5
	110	23.6	34.9
	111	19.5	31.1
	112	24.3	36.7
	113	24.7	36.3
	114	26.8	38.2

	##	115		25.5	38.8
## 1		110	Mean.TemperatureF.		
## 2		1	_	<del>-</del>	
## 3	##	2			
## 4					
## 6	##	4			36.0
## 7	##	5	32.5	2.08	2.1
## 8	##	6	27.9	2.98	9.0
## 9	##	7	36.5	2.85	0.0
## 10	##	8		3.63	
## 11					
## 12					
## 13					
## 14					
## 15					
## 16					
## 17					
## 18					
## 19					
## 20					
## 21					
## 22					
## 23					
## 24					
## 25					
## 26					
## 27					
## 29	##	27			13.9
## 30	##	28	32.3	5.81	13.6
## 31	##	29	34.1	4.23	2.2
## 32       34.5       NA       1.9         ## 33       26.1       6.46       11.8         ## 34       26.2       0.58       8.0         ## 35       33.7       1.72       2.0         ## 36       33.5       10.52       6.6         ## 37       28.0       8.27       34.0         ## 38       22.0       2.25       13.0         ## 39       27.3       5.78       5.6         ## 40       37.3       4.76       2.0         ## 41       35.2       3.80       13.4         ## 42       35.5       4.53       1.8         ## 43       35.0       2.41       2.8         ## 44       26.9       2.67       11.4         ## 45       25.1       0.66       8.4         ## 46       31.8       1.10       1.0         ## 47       26.7       2.04       3.6         ## 48       37.3       1.39       1.4         ## 49       32.2       2.63       11.6         ## 50       29.6       3.09       14.8         ## 51       35.6       4.62       13.3	##	30	28.8	1.00	8.4
## 33					
## 34					
## 35       33.7       1.72       2.0         ## 36       33.5       10.52       6.6         ## 37       28.0       8.27       34.0         ## 38       22.0       2.25       13.0         ## 39       27.3       5.78       5.6         ## 40       37.3       4.76       2.0         ## 41       35.2       3.80       13.4         ## 42       35.5       4.53       1.8         ## 43       35.0       2.41       2.8         ## 44       26.9       2.67       11.4         ## 45       25.1       0.66       8.4         ## 46       31.8       1.10       1.0         ## 47       26.7       2.04       3.6         ## 48       37.3       1.39       1.4         ## 49       32.2       2.63       11.6         ## 50       29.6       3.09       14.8         ## 51       35.6       4.62       13.3					
## 36       33.5       10.52       6.6         ## 37       28.0       8.27       34.0         ## 38       22.0       2.25       13.0         ## 39       27.3       5.78       5.6         ## 40       37.3       4.76       2.0         ## 41       35.2       3.80       13.4         ## 42       35.5       4.53       1.8         ## 43       35.0       2.41       2.8         ## 44       26.9       2.67       11.4         ## 45       25.1       0.66       8.4         ## 46       31.8       1.10       1.0         ## 47       26.7       2.04       3.6         ## 48       37.3       1.39       1.4         ## 49       32.2       2.63       11.6         ## 50       29.6       3.09       14.8         ## 51       35.6       4.62       13.3					
## 37       28.0       8.27       34.0         ## 38       22.0       2.25       13.0         ## 39       27.3       5.78       5.6         ## 40       37.3       4.76       2.0         ## 41       35.2       3.80       13.4         ## 42       35.5       4.53       1.8         ## 43       35.0       2.41       2.8         ## 44       26.9       2.67       11.4         ## 45       25.1       0.66       8.4         ## 46       31.8       1.10       1.0         ## 47       26.7       2.04       3.6         ## 48       37.3       1.39       1.4         ## 49       32.2       2.63       11.6         ## 50       29.6       3.09       14.8         ## 51       35.6       4.62       13.3					
## 38       22.0       2.25       13.0         ## 39       27.3       5.78       5.6         ## 40       37.3       4.76       2.0         ## 41       35.2       3.80       13.4         ## 42       35.5       4.53       1.8         ## 43       35.0       2.41       2.8         ## 44       26.9       2.67       11.4         ## 45       25.1       0.66       8.4         ## 46       31.8       1.10       1.0         ## 47       26.7       2.04       3.6         ## 48       37.3       1.39       1.4         ## 49       32.2       2.63       11.6         ## 50       29.6       3.09       14.8         ## 51       35.6       4.62       13.3					
## 39       27.3       5.78       5.6         ## 40       37.3       4.76       2.0         ## 41       35.2       3.80       13.4         ## 42       35.5       4.53       1.8         ## 43       35.0       2.41       2.8         ## 44       26.9       2.67       11.4         ## 45       25.1       0.66       8.4         ## 46       31.8       1.10       1.0         ## 47       26.7       2.04       3.6         ## 48       37.3       1.39       1.4         ## 49       32.2       2.63       11.6         ## 50       29.6       3.09       14.8         ## 51       35.6       4.62       13.3					
## 40       37.3       4.76       2.0         ## 41       35.2       3.80       13.4         ## 42       35.5       4.53       1.8         ## 43       35.0       2.41       2.8         ## 44       26.9       2.67       11.4         ## 45       25.1       0.66       8.4         ## 46       31.8       1.10       1.0         ## 47       26.7       2.04       3.6         ## 48       37.3       1.39       1.4         ## 49       32.2       2.63       11.6         ## 50       29.6       3.09       14.8         ## 51       35.6       4.62       13.3					
## 41       35.2       3.80       13.4         ## 42       35.5       4.53       1.8         ## 43       35.0       2.41       2.8         ## 44       26.9       2.67       11.4         ## 45       25.1       0.66       8.4         ## 46       31.8       1.10       1.0         ## 47       26.7       2.04       3.6         ## 48       37.3       1.39       1.4         ## 49       32.2       2.63       11.6         ## 50       29.6       3.09       14.8         ## 51       35.6       4.62       13.3					
## 42       35.5       4.53       1.8         ## 43       35.0       2.41       2.8         ## 44       26.9       2.67       11.4         ## 45       25.1       0.66       8.4         ## 46       31.8       1.10       1.0         ## 47       26.7       2.04       3.6         ## 48       37.3       1.39       1.4         ## 49       32.2       2.63       11.6         ## 50       29.6       3.09       14.8         ## 51       35.6       4.62       13.3					
## 43       35.0       2.41       2.8         ## 44       26.9       2.67       11.4         ## 45       25.1       0.66       8.4         ## 46       31.8       1.10       1.0         ## 47       26.7       2.04       3.6         ## 48       37.3       1.39       1.4         ## 49       32.2       2.63       11.6         ## 50       29.6       3.09       14.8         ## 51       35.6       4.62       13.3					
## 44 26.9 2.67 11.4 ## 45 25.1 0.66 8.4 ## 46 31.8 1.10 1.0 ## 47 26.7 2.04 3.6 ## 48 37.3 1.39 1.4 ## 49 32.2 2.63 11.6 ## 50 29.6 3.09 14.8 ## 51 35.6 4.62 13.3					
## 45					
## 46 31.8 1.10 1.0 ## 47 26.7 2.04 3.6 ## 48 37.3 1.39 1.4 ## 49 32.2 2.63 11.6 ## 50 29.6 3.09 14.8 ## 51 35.6 4.62 13.3					
## 47 26.7 2.04 3.6 ## 48 37.3 1.39 1.4 ## 49 32.2 2.63 11.6 ## 50 29.6 3.09 14.8 ## 51 35.6 4.62 13.3					
## 49 32.2 2.63 11.6 ## 50 29.6 3.09 14.8 ## 51 35.6 4.62 13.3	##	47			
## 50 29.6 3.09 14.8 ## 51 35.6 4.62 13.3	##	48	37.3	1.39	1.4
<b>##</b> 51 35.6 4.62 13.3	##	49	32.2	2.63	11.6
## 52					
	##	52	30.1	1.93	5.3

##	53	32.6	2.62	0.6
##	54	27.7	1.88	16.7
##	55	33.9	2.40	2.5
##	56	31.2	2.34	1.5
##	57	31.9	3.79	9.2
##		28.5	1.70	8.9
##		32.0	1.54	1.2
##		30.9	0.77	2.6
		30.8		
	61		1.65	12.7
##	62	37.6	4.90	4.1
	63	36.2	4.58	6.1
	64	36.9	3.31	0.9
	65	41.4	2.19	0.4
##	66	38.6	5.98	6.8
##	67	25.2	5.67	15.3
##	68	37.1	2.74	5.5
##	69	34.1	1.86	4.2
##	70	25.2	2.24	12.3
##	71	33.9	3.20	4.8
##	72	30.7	2.46	9.5
	73	30.7	2.88	6.4
	74	29.4	3.23	9.2
	75	25.0	2.61	3.5
	76	32.1	3.80	10.3
	77	32.1		
			3.99	6.5
	78	40.3	5.67	6.5
	79	29.3	6.90	12.1
##	80	28.8	3.91	23.6
##	81	34.6	3.42	0.1
##	82	40.4	1.78	0.0
##	83	43.2	4.45	0.8
##	84	32.7	2.56	0.5
##	85	33.3	2.37	3.5
##	86	31.9	3.33	2.3
##	87	34.0	1.87	2.7
##	88	30.9	2.03	5.7
##		32.0	2.85	3.1
##		28.4	5.42	27.4
##		32.6	4.90	2.5
##		29.9	6.99	24.5
##		28.2	2.73	9.4
##				
		33.2	2.74	3.5
##		23.4	2.09	8.2
##		35.6	3.51	0.3
##		21.7	3.53	13.2
##		32.8	2.96	5.8
##		36.0	1.28	3.4
	100	34.5	7.94	3.8
##	101	31.5	5.27	1.3
##	102	40.8	3.43	0.3
##	103	23.7	2.56	13.0
	104	36.2	2.79	1.3
	105	31.5	4.64	2.1
	106	34.5	3.32	11.4
			J <b>-</b>	

	107	32.9	3.76	10.0
	108	34.9	2.89	11.0
	109	38.4	2.69	1.5
	110	29.2	2.77	18.4
	111	25.3	2.97	11.1
	112	30.5	4.18	4.5
	113	30.8	2.27	6.1
	114	32.6	1.66	2.0
	115	32.4	4.22	1.0
##		Max.24hr.Precipitationin.		
##		0.50	11.0	
##		0.90	1.5	
## ##		1.38	4.3	
##		1.29	12.3	
##		1.25 1.19	3.0	
##		1.19	0.0	
##		1.52	1.0	
##		1.17	2.0	
##		1.03	8.5	
##		0.56	6.0	
##		1.52	1.0	
##		0.62	3.0	
##		0.83	6.0	
##	15	0.84	5.5	
##	16	2.42	2.5	
##	17	2.55	0.5	
##		1.23	3.5	
##		1.40	13.6	
##		1.41	0.2	
##		1.87	4.5	
##		1.42	1.1	
##		0.50	1.3	
##		0.85	5.7	
## ##		1.11 0.60	0.8 5.0	
##		0.80	5.2	
##		1.68	8.1	
##		2.19	1.4	
##		0.30	4.1	
##		0.60	4.2	
##	32	NA	1.0	
##	33	2.73	5.8	
##	34	0.41	4.1	
##	35	0.81	2.0	
##	36	3.45	3.1	
##		1.80	13.7	
##		1.24	5.0	
##		1.94	1.9	
##		0.80	1.3	
##		1.05	5.6	
##		1.49	1.8	
## ##		0.64 0.99	1.8	
##	44	0.99	6.4	

##	45	0.16	2.6
##	46	0.43	1.0
##	47	1.30	1.5
##	48	0.82	0.5
##	49	0.72	5.8
##	50	0.64	6.3
##	51	1.29	11.5
	52	0.38	3.0
##		1.57	0.4
	54	0.78	5.5
	55	0.84	1.8
	56	0.83	0.9
	57	0.86	4.5
	58	0.49	2.9
	59	0.52	0.5
	60	0.31	0.9
	61	0.45	5.4
	62		
		1.30	2.0
	63	0.85	5.8
	64	1.27	0.9
	65	0.46	0.4
	66	1.70	5.5
	67	1.23	3.5
	68	0.93	4.0
	69	0.69	1.8
	70	0.77	6.7
	71	0.99	3.2
	72	1.25	7.1
	73	1.09	2.8
	74	1.18	5.0
	75	2.06	1.5
	76	1.19	7.8
	77	1.35	2.1
	78	0.97	5.7
	79	2.39	9.0
	80	1.09	12.8
	81	1.14	0.1
##		0.82	0.0
##		1.33	0.6
##		0.93	0.3
##		0.81	1.8
##		0.78	0.6
##		0.64	1.8
##	88	0.44	5.1
##	89	0.95	2.3
##	90	1.92	11.5
##	91	1.44	2.4
##	92	1.68	7.8
##	93	1.38	3.4
##	94	1.75	1.8
##	95	0.64	2.8
##	96	1.22	0.3
##	97	1.15	5.9
##		0.57	1.8

```
3.0
## 99
                                0.30
## 100
                                2.35
                                                          1.6
## 101
                                1.51
                                                         1.1
## 102
                                                         0.2
                                0.54
## 103
                                0.93
                                                         3.5
## 104
                                                         1.0
                                0.76
## 105
                                                         1.0
                                1.18
## 106
                                                         4.3
                                1.50
## 107
                                1.46
                                                        10.0
## 108
                                0.96
                                                         6.0
## 109
                                0.85
                                                         1.5
## 110
                                0.91
                                                         11.0
## 111
                                0.72
                                                         7.5
## 112
                                1.30
                                                         4.0
## 113
                                0.80
                                                         3.0
## 114
                                0.90
                                                          1.8
## 115
                                1.46
                                                          0.5
```

Create a function to convert °F to °C and in (inches) to mm.

-14.44444

## 4

2011

```
fahrenheit_to_celsius = function(fahrenheit_value) {
  (fahrenheit_value-32) * 5/9
inches_to_mm = function(inches) {
  inches *25.4
}
fahrenheit_columns_to_celsius = function(dataframe) {
  fahrenheit_columns = names(dataframe)[grep1("\\.F\\.", names(dataframe))]
  fahrenheit_indices = which(names(dataframe) %in% fahrenheit_columns)
  dataframe[,fahrenheit_indices] = apply(dataframe[,fahrenheit_indices], 2, fahrenheit_to_celsius)
  names(dataframe) = gsub("\\.F\\.", ".C.", names(dataframe))
  dataframe
}
inches_columns_to_mm = function(dataframe) {
  inches_columns = names(dataframe)[grepl("\\.in\\.", names(dataframe))]
  inches_indices = which(names(dataframe) %in% inches_columns)
  dataframe[,inches_indices] = apply(dataframe[,inches_indices], 2, inches_to_mm)
  names(dataframe) = gsub("\\.in\\.", ".mm.", names(dataframe))
  dataframe
}
ex3 = fahrenheit columns to celsius(ex3)
ex3 = inches_columns_to_mm(ex3)
ex3
##
      Year Lowest.Temperature..C. Highest.Temperature..C.
## 1
      2014
                        -15.555556
                                                 14.44444
## 2
      2013
                        -11.666667
                                                 16.111111
## 3
      2012
                        -10.555556
                                                 16.666667
```

11.666667

##		2010	-10.555556	13.888889
	6	2009	-14.44444	8.333333
	7	2008	-11.111111	17.777778
##	8	2007	-12.777778	22.22222
##	9	2006	-8.888889	17.777778
##	10	2005	-15.000000	18.888889
##	11	2004	-17.222222	14.44444
##	12	2003	-13.888889	10.000000
##	13	2002	-6.111111	20.555556
##	14	2001	-7.77778	12.222222
##	15	2000	-16.111111	17.777778
##	16	1999	-12.777778	15.555556
##	17	1998	-10.000000	18.333333
##	18	1997	-15.555556	16.666667
##	19	1996	-14.44444	13.333333
##	20	1995	-9.444444	17.777778
##	21	1994	-18.888889	12.777778
##	22	1993	-6.111111	17.777778
	23	1992	-11.666667	16.666667
	24	1991	-12.222222	12.777778
	25	1990	-4.44444	18.888889
	26	1989	-11.666667	16.111111
	27	1988	-15.000000	11.666667
	28	1987	-13.333333	13.888889
	29	1986	-13.333333	17.222222
	30	1985	-18.888889	14.44444
	31	1984	-13.333333	13.888889
	32	1983	-11.111111	14.44444
	33	1982	-17.777778	14.44444
	34	1981	-16.666667	9.44444
	35	1980	-8.333333	15.555556
	36	1979	-13.333333	17.222222
	37	1978	-11.111111	14.44444
##	38	1977	-18.888889	6.666667
##	39	1976	-18.333333	13.333333
##	40	1975	-9.444444	17.222222
##		1974	-14.44444	18.888889
##		1973	-12.222222	18.888889
##		1972	-15.000000	16.666667
##	44	1971	-15.555556	7.777778
##	45	1970	-16.111111	10.555556
##	46	1969	-11.666667	8.888889
##	47	1968	-18.333333	10.000000
##	48	1967	-10.555556	20.000000
##	49	1966	-13.333333	16.666667
##	50	1965	-12.777778	12.777778
##	51	1964	-12.777778	12.777778
##	52	1963	-15.555556	10.555556
##	53	1962	-11.666667	13.333333
##	54	1961	-15.000000	12.777778
##	55	1960	-8.333333	12.222222
##	56	1959	-10.000000	16.111111
##	57	1958	-11.111111	11.666667
##	58	1957	-17.777778	15.555556

##	59	1956	-10.000000	8.88889
##		1955	-10.555556	10.000000
##		1954	-13.888889	13.333333
##		1953	-6.111111	13.888889
##		1952	-13.333333	15.555556
##		1951	-11.666667	17.777778
##		1950	-8.888889	22.22222
##		1949	-6.666667	16.111111
##		1948	-17.777778	7.222222
	68	1947	-11.111111	17.222222
	69	1946	-15.000000	16.666667
	70	1945	-16.666667	12.777778
	71	1944	-11.111111	16.666667
	72	1943	-12.22222	13.333333
	73	1942	-15.000000	13.888889
	74	1941	-12.22222	8.333333
	75	1940	-13.888889	12.22222
	76	1939	-14.444444	12.777778
	77	1938	-14.44444	13.888889
	78	1937	-3.888889	18.888889
##		1936	-19.444444	12.222222
##		1935	-18.333333	14.44444
##		1934	-14.444444	14.44444
	82	1933	-10.555556	16.111111
##		1932	-4.44444	21.111111
	84	1931	-11.666667	13.333333
##		1930	-12.222222	17.777778
##		1929	-13.333333	16.666667
## ##		1928 1927	-11.111111 -18.333333	14.44444 11.111111
##		1926	-15.000000	12.222222
##		1925	-18.888889	7.222222
##		1924	-15.000000	13.888889
##		1923	-12.777778	11.666667
##		1922	-13.888889	10.000007
	94	1921	-15.555556	13.888889
##		1920	-18.333333	10.555556
	96	1919	-12.22222	16.111111
	97	1918	-20.000000	11.666667
	98	1917	-13.333333	10.555556
##	99	1916	-13.888889	20.555556
##	100	1915	-11.111111	14.44444
##	101		-20.555556	14.44444
##		1913	-7.77778	17.222222
##		1912	-19.444444	12.22222
##	104	1911	-7.777778	13.333333
##	105	1910	-15.000000	8.888889
##	106	1909	-15.000000	13.888889
##	107		-13.333333	10.000000
##	108	1907	-15.555556	17.777778
##	109	1906	-10.000000	16.666667
##	110	1905	-15.555556	11.666667
##	111	1904	-20.000000	12.22222
##	112	1903	-12.222222	10.555556

##	113	1902 -10	.555556	10.555556
			.333333	11.666667
##	115	1900 -12	.222222	13.888889
##		Warmest.Minimum.Temp	eratureC.	Coldest.Minimum.TemperatureC.
##	1	_	6.666667	-7.777778
##	2		6.1111111	-6.666667
##	3		7.777778	-2.777778
##	4		4.444444	-4.444444
##	5		9.444444	-6.666667
##	6		3.3333333	-8.888889
##	7		11.6666667	-6.666667
##	8		12.222222	-5.555556
##	9		7.222222	0.0000000
	10		9.444444	-7.777778
	11		6.666667	-9.444444
	12		3.3333333	-6.666667
	13		10.0000000	-0.555556
	14		4.444444	-2.777778
	15		10.555556	-7.2222222
	16		5.000000	-5.555556
	17		8.3333333	-1.666667
	18		6.6666667	-8.3333333
	19		4.444444	-7.777778
	20		12.222222	-2.777778
	21		1.6666667	-12.2222222
	22		5.0000000	-2.777778
	23 24		5.555556 6.1111111	-5.0000000 -6.666667
	2 <del>4</del> 25		7.777778	0.555556
	26		6.6666667	-3.3333333
	27		5.0000000	-8.3333333
	28		7.777778	-7.2222222
##			7.222222	-5.555556
##			4.444444	-12.777778
##			3.8888889	-7.2222222
	32		6.1111111	-6.1111111
##	33		2.7777778	-9.444444
##	34		4.444444	-10.0000000
##	35		4.444444	-2.777778
##	36		10.0000000	-6.666667
##	37		2.222222	-6.1111111
##	38		-2.222222	-11.1111111
##			2.222222	-9.444444
##	40		8.888889	-1.6666667
##			7.222222	-5.0000000
##	42		7.222222	-7.777778
##			7.222222	-9.444444
##			1.1111111	-8.888889
##			5.555556	-10.0000000
##			5.555556	-4.444444
##			2.222222	-10.5555556
##			12.222222	-3.8888889
##			11.1111111	-7.2222222
##	50		5.0000000	-8.888889

##		5.0000000	-5.555556
##		3.8888889	-6.666667
##		5.0000000	-3.8888889
##		5.555556	-7.2222222
##		3.3333333	-2.2222222
##		3.3333333	-5.555556
##		3.8888889	-5.0000000
##		6.1111111	-11.1111111
##		6.1111111	-2.2222222
##		4.444444	-4.444444
##		5.0000000	-6.1111111
	62	9.444444	0.555556
##		7.222222	-5.0000000
##		8.3333333	-2.777778
##		15.0000000	-0.555556
	66	6.1111111	-1.1111111
##		0.555556	-7.777778
##	68	5.555556	-5.0000000
##		12.222222	-3.3333333
	70	0.555556	-9.444444
	71	3.3333333	-5.0000000
	72	3.3333333	-3.8888889
##		6.1111111	-10.0000000
	74	2.222222	-3.8888889
	75	2.222222	-7.2222222
	76	6.666667	-7.777778
	77	5.555556	-8.3333333
	78	10.0000000	0.0000000
	79	2.7777778	-8.8888889
##		8.3333333	-8.8888889
##		5.0000000	-8.8888889
##		8.888889	-2.2222222
##		13.3333333	0.555556
##		5.0000000	-4.444444
##		11.1111111	-5.555556
##		3.3333333	-4.444444
##		6.666667	-4.444444
##		4.444444	-5.555556
##		4.444444	-5.0000000
##		0.555556	-10.0000000
##		4.444444	-7.777778
##		6.666667	-6.1111111
##		2.7777778	-8.8888889
##		5.555556	-8.8888889
##		2.222222	-10.0000000
##		6.1111111	-3.3333333
##		-1.6666667	-12.2222222
##		4.444444	-6.666667
##		11.6666667	-6.1111111
	100	8.3333333	-4.444444
	101	5.555556	-12.7777778
	102	7.222222	-1.6666667
	103	3.3333333	-13.3333333
##	104	9.444444	-3.3333333

шш	1 O E	4 44444	0 777770
	105	4.444444 9.444444	-2.777778
	106		-4.444444
	107	5.0000000	-7.777778
	108	9.444444	-6.666667
	109	10.0000000	-1.666667
	110	5.555556	-8.888889
	111	3.8888889	-10.5555556
	112	3.8888889	-6.1111111
	113	4.444444	-6.1111111
##	114	3.3333333	-2.777778
##	115	7.777778	-6.666667
##		${\tt Average.Minimum.TemperatureC.}$	Average.Maximum.TemperatureC.
##	1	-5.6666667	1.7777778
##	2	-1.50000000	4.8888889
##	3	-1.00000000	6.7777778
##	4	-4.11111111	1.5000000
##	5	-2.7777778	3.3888889
##	6	-5.33333333	0.8333333
##	7	-0.7777778	5.777778
##	8	-0.33333333	6.444444
##	9	1.22222222	8.6111111
##	10	-3.7777778	3.0000000
##	11	-7.50000000	-0.555556
##	12	-5.50000000	0.5000000
##	13	1.38888889	7.444444
##	14	-1.9444444	3.7777778
##	15	-4.0555556	3.2777778
##	16	-2.7777778	4.888889
##	17	1.22222222	7.6666667
##	18	-3.83333333	4.0000000
##	19	-4.4444444	2.7777778
##	20	-0.0555556	6.1666667
##	21	-7.83333333	0.666667
##	22	-1.05555556	5.8333333
##	23	-1.7222222	5.8333333
##	24	-1.9444444	5.1111111
##	25	1.7777778	8.6111111
##	26	-0.72222222	6.666667
##	27	-4.8888889	2.1111111
##	28	-2.72222222	3.0555556
##	29	-2.5555556	4.888889
##	30	-5.0000000	1.444444
##	31	-4.1111111	1.7222222
##	32	-1.4444444	4.2222222
##		-6.8888889	0.2777778
##		-6.5555556	0.1666667
##		-2.2222222	4.1111111
	36	-2.83333333	4.5555556
##		-5.5555556	1.0555556
##		-8.6666667	-2.3888889
##		-6.38888889	1.222222
##		-0.38888889	6.277778
##		-1.6111111	5.222222
##		-1.7777778	5.6111111
11.11		1.7777770	0.0111111

##	43	-2.2222222	5.6111111
##	44	-6.2222222	0.6111111
##	45	-7.38888889	-0.2777778
##	46	-3.16666667	2.944444
##	47	-6.61111111	0.722222
##	48	-0.2777778	6.222222
##	49	-3.50000000	3.6666667
##	50	-4.6111111	2.0000000
##		-1.38888889	5.444444
##		-4.4444444	2.3333333
##	53	-3.61111111	4.2222222
##		-5.61111111	0.8333333
##	* -	-1.7777778	3.8333333
##		-4.2777778	3.3333333
##		-3.16666667	3.0555556
##		-5.4444444	1.5555556
##		-2.9444444	2.944444
##		-3.7777778	2.6111111
##		-4.7222222	3.3888889
##	<del></del>	-4.7222222	6.3333333
##			
##		-1.7222222	6.3333333
		-1.4444444	6.944444
##		1.22222222	9.2222222
##		0.33333333	7.0000000
##		-7.0555556 4.0000000	-0.444444
##		-1.00000000	6.722222
##		-2.7777778	5.1111111
	70	-7.83333333	0.2777778
	71	-2.33333333	4.444444
	72	-4.2777778	2.8888889
	73	-4.5000000	3.0555556
	74	-4.88888889	2.0000000
	75		-0.555556
	76	-3.0555556	3.222222
	77	-3.38888889	3.5000000
	78	0.9444444	8.2777778
	79	-4.83333333	1.8333333
##		-5.7777778	2.2777778
##		-1.9444444	4.8888889
##		1.11111111	8.1111111
##		3.16666667	9.222222
##		-3.16666667	4.0000000
##	85	-2.7777778	4.1666667
##	86	-3.88888889	3.7777778
##	87	-2.83333333	5.0000000
##	88	-4.4444444	3.222222
##	89	-3.50000000	3.444444
##	90	-5.5555556	1.5555556
##	91	-3.9444444	4.6666667
##	92	-4.6666667	2.3888889
##	93	-5.61111111	1.3333333
##	94	-3.50000000	4.8888889
##	95	-8.83333333	-0.6666667
##	96	-1.44444444	5.444444

## ##			-9.11111111 -3.27777778	-2.3888889 4.222222
##			-3.2777776 -2.05555556	6.444444
	100		-2.0555556 -1.83333333	4.555556
				3.444444
	101	-	-4.00000000	
	102		0.83333333	9.055556
	103		-8.38888889	-0.8333333
	104		-0.7777778	5.5000000
	105		-3.50000000	3.0000000
	106		-2.16666667 -3.2222222	4.8888889
	107			4.1111111
	108	-	-2.2222222	5.444444
	109		0.72222222	6.3888889
	110		-4.66666667	1.6111111
	111		-6.9444444	-0.5000000
	<ul><li>112</li><li>113</li></ul>		-4.27777778	2.6111111 2.3888889
	113		-4.05555556 -2.88888889	3.444444
	114		-3.61111111	3.7777778
##	113		Total.Precipitationmm.	
##	1	-1.9444444	59.436	487.68
##		1.72222222	70.104	38.10
##		2.88888889	82.042	109.22
##		-1.27777778	125.222	914.40
##		0.2777778	52.832	53.34
##		-2.2777778	75.692	228.60
##		2.50000000	72.390	0.00
##		3.05555556	92.202	66.04
##		4.9444444	126.746	50.80
##	10	-0.38888889	118.618	388.62
##	11	-4.0555556	54.102	439.42
##	12	-2.50000000	58.420	119.38
##	13	4.38888889	49.022	88.90
##	14	0.8888889	80.264	210.82
##	15	-0.38888889	82.042	241.30
##	16	1.0555556	178.308	114.30
##	17	4.4444444	132.080	12.70
##	18	0.0555556	92.710	111.76
##	19	-0.83333333	143.256	662.94
##	20	3.0555556	95.250	5.08
##	21	-3.61111111	142.748	304.80
##	22	2.38888889	87.376	38.10
##		2.0555556	42.672	38.10
##		1.61111111	85.852	213.36
##		5.2222222	135.636	22.86
##		3.00000000	58.166	127.00
##		-1.38888889	92.456	353.06
##		0.16666667	147.574	345.44
##		1.16666667	107.442	55.88
##		-1.77777778	25.400	213.36
##		-1.16666667	47.498	297.18
##		1.38888889	NA	48.26
##		-3.2777778	164.084	299.72
##	34	-3.2222222	14.732	203.20

## 25	0.9444444	43.688	E0 00
## 35 ## 36	0.8333333	267.208	50.80 167.64
## 30	-2.2222222	210.058	863.60
## 38	-5.5555556	57.150	330.20
## 39	-2.6111111	146.812	142.24
## 40	2.9444444	120.904	50.80
## 40	1.7777778	96.520	340.36
## 42	1.9444444	115.062	45.72
## 43	1.6666667	61.214	71.12
## 44	-2.83333333	67.818	289.56
## 45	-3.8333333	16.764	213.36
## 46	-0.1111111	27.940	25.40
## 47	-2.9444444	51.816	91.44
## 48	2.9444444	35.306	35.56
## 49	0.1111111	66.802	294.64
## 50	-1.3333333	78.486	375.92
## 51	2.0000000	117.348	337.82
## 52	-1.0555556	49.022	134.62
## 53	0.3333333	66.548	15.24
## 54	-2.38888889	47.752	424.18
## 55	1.0555556	60.960	63.50
## 56	-0.4444444	59.436	38.10
## 57	-0.0555556	96.266	233.68
## 58	-1.9444444	43.180	226.06
## 59	0.0000000	39.116	30.48
## 60	-0.61111111	19.558	66.04
## 61	-0.6666667	41.910	322.58
## 62	3.1111111	124.460	104.14
## 63	2.33333333	116.332	154.94
## 64	2.7222222	84.074	22.86
## 65	5.2222222	55.626	10.16
## 66	3.6666667	151.892	172.72
## 67	-3.7777778	144.018	388.62
## 68	2.83333333	69.596	139.70
## 69	1.16666667	47.244	106.68
## 70	-3.7777778	56.896	312.42
## 71	1.0555556	81.280	121.92
## 72	-0.7222222	62.484	241.30
## 73	-0.7222222 -1.4444444	73.152	162.56
## 74 ## 75	-1.4444444 -3.8888889	82.042	233.68
## 75 ## 76	0.0555556	66.294 96.520	88.90
	0.0555556	101.346	261.62
## 77 ## 78	4.6111111	144.018	165.10 165.10
## 79	-1.5000000	175.260	307.34
## 80	-1.7777778	99.314	599.44
## 81	1.4444444	86.868	2.54
## 82	4.6666667	45.212	0.00
## 83	6.2222222	113.030	20.32
## 84	0.3888889	65.024	12.70
## 85	0.7222222	60.198	88.90
## 86	-0.0555556	84.582	58.42
## 87	1.1111111	47.498	68.58
## 88	-0.6111111	51.562	144.78

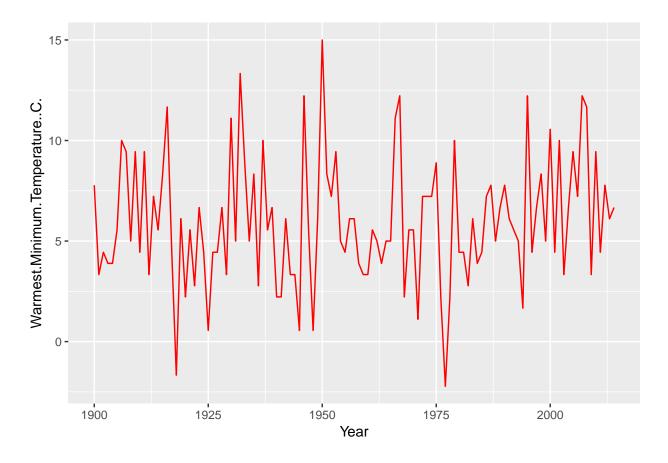
##	89	0.0000000	72.390	78.74
	90	-2.0000000	137.668	695.96
	91	0.33333333	124.460	63.50
	92	-1.16666667	177.546	622.30
	93	-2.11111111	69.342	238.76
	94	0.6666667	69.596	88.90
	95	-4.7777778	53.086	208.28
	96	2.0000000	89.154	7.62
	97	-5.7222222	89.662	335.28
	98	0.4444444	75.184	147.32
	99	2.2222222	32.512	86.36
	100	1.3888889	201.676	96.52
	101	-0.2777778	133.858	33.02
	102	4.8888889	87.122	7.62
	103	-4.6111111	65.024	330.20
	104	2.33333333	70.866	33.02
	105	-0.2777778	117.856	53.34
	106	1.3888889	84.328	289.56
	107	0.5000000	95.504	254.00
	108	1.61111111	73.406	279.40
	109	3.5555556	68.326	38.10
	110	-1.5555556	70.358	467.36
	111	-3.7222222	75.438	281.94
##	112	-0.8333333	106.172	114.30
##	113	-0.6666667	57.658	154.94
##	114	0.3333333	42.164	50.80
##	115	0.2222222	107.188	25.40
##		Max.24hr.Precipitationmm.		
##	1	Max.24hr.Precipitationmm. 12.700	Max.24hr.Snowfallmm. 279.40	
		${\tt Max.24hr.Precipitationmm.}$	Max.24hr.Snowfallmm. 279.40	
## ## ##	2	Max.24hr.Precipitationmm. 12.700 22.860 35.052	Max.24hr.Snowfallmm. 279.40 38.10 109.22	
## ##	2	Max.24hr.Precipitationmm. 12.700 22.860	Max.24hr.Snowfallmm. 279.40 38.10 109.22	
## ## ##	2 3 4	Max.24hr.Precipitationmm. 12.700 22.860 35.052	Max.24hr.Snowfallmm. 279.40 38.10 109.22 312.42	
## ## ## ##	2 3 4 5	Max.24hr.Precipitationmm. 12.700 22.860 35.052 32.766	Max.24hr.Snowfallmm. 279.40 38.10 109.22 312.42 33.02	
## ## ## ##	2 3 4 5 6	Max.24hr.Precipitationmm. 12.700 22.860 35.052 32.766 31.750 30.226 32.766	Max.24hr.Snowfallmm. 279.40 38.10 109.22 312.42 33.02 76.20 0.00	
## ## ## ## ##	2 3 4 5 6 7	Max.24hr.Precipitationmm. 12.700 22.860 35.052 32.766 31.750 30.226 32.766 38.608	Max.24hr.Snowfallmm. 279.40 38.10 109.22 312.42 33.02 76.20 0.00 25.40	
## ## ## ## ## ##	2 3 4 5 6 7 8	Max.24hr.Precipitationmm. 12.700 22.860 35.052 32.766 31.750 30.226 32.766	Max.24hr.Snowfallmm. 279.40 38.10 109.22 312.42 33.02 76.20 0.00 25.40 50.80	
## ## ## ## ## ##	2 3 4 5 6 7 8	Max.24hr.Precipitationmm. 12.700 22.860 35.052 32.766 31.750 30.226 32.766 38.608	Max.24hr.Snowfallmm. 279.40 38.10 109.22 312.42 33.02 76.20 0.00 25.40 50.80	
## ## ## ## ## ## ##	2 3 4 5 6 7 8 9 10 11	Max.24hr.Precipitationmm. 12.700 22.860 35.052 32.766 31.750 30.226 32.766 38.608 29.718	Max.24hr.Snowfallmm. 279.40 38.10 109.22 312.42 33.02 76.20 0.00 25.40 50.80 215.90 152.40	
## ## ## ## ## ## ##	2 3 4 5 6 7 8 9 10	Max.24hr.Precipitationmm. 12.700 22.860 35.052 32.766 31.750 30.226 32.766 38.608 29.718 26.162	Max.24hr.Snowfallmm. 279.40 38.10 109.22 312.42 33.02 76.20 0.00 25.40 50.80 215.90 152.40	
## ## ## ## ## ## ##	2 3 4 5 6 7 8 9 10 11	Max.24hr.Precipitationmm. 12.700 22.860 35.052 32.766 31.750 30.226 32.766 38.608 29.718 26.162 14.224	Max.24hr.Snowfallmm. 279.40 38.10 109.22 312.42 33.02 76.20 0.00 25.40 50.80 215.90 152.40 25.40	
## ## ## ## ## ## ## ##	2 3 4 5 6 7 8 9 10 11 12	Max.24hr.Precipitationmm. 12.700 22.860 35.052 32.766 31.750 30.226 32.766 38.608 29.718 26.162 14.224 38.608	Max.24hr.Snowfallmm. 279.40 38.10 109.22 312.42 33.02 76.20 0.00 25.40 50.80 215.90 152.40 25.40 76.20	
## ## ## ## ## ## ## ##	2 3 4 5 6 7 8 9 10 11 12 13	Max.24hr.Precipitationmm. 12.700 22.860 35.052 32.766 31.750 30.226 32.766 38.608 29.718 26.162 14.224 38.608 15.748	Max.24hr.Snowfallmm. 279.40 38.10 109.22 312.42 33.02 76.20 0.00 25.40 50.80 215.90 152.40 76.20 152.40	
## ## ## ## ## ## ## ##	2 3 4 5 6 7 8 9 10 11 12 13 14	Max.24hr.Precipitationmm. 12.700 22.860 35.052 32.766 31.750 30.226 32.766 38.608 29.718 26.162 14.224 38.608 15.748 21.082	Max.24hr.Snowfallmm. 279.40 38.10 109.22 312.42 33.02 76.20 0.00 25.40 50.80 215.90 152.40 76.20 76.20 152.40 139.70	
## ## ## ## ## ## ## ## ##	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Max.24hr.Precipitationmm. 12.700 22.860 35.052 32.766 31.750 30.226 32.766 38.608 29.718 26.162 14.224 38.608 15.748 21.082 21.336	Max.24hr.Snowfallmm. 279.40 38.10 109.22 312.42 33.02 76.20 0.00 25.40 50.80 215.90 152.40 76.20 152.40 139.70 63.50	
## ## ## ## ## ## ## ## ## ##	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Max.24hr.Precipitationmm. 12.700 22.860 35.052 32.766 31.750 30.226 32.766 38.608 29.718 26.162 14.224 38.608 15.748 21.082 21.336 61.468	Max.24hr.Snowfallmm. 279.40 38.10 109.22 312.42 33.02 76.20 0.00 25.40 50.80 215.90 152.40 25.40 76.20 152.40 139.70 63.50 12.70	
## ## ## ## ## ## ## ## ## ## ## ## ##	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Max.24hr.Precipitationmm. 12.700 22.860 35.052 32.766 31.750 30.226 32.766 38.608 29.718 26.162 14.224 38.608 15.748 21.082 21.336 61.468 64.770	Max.24hr.Snowfallmm. 279.40 38.10 109.22 312.42 33.02 76.20 0.00 25.40 50.80 215.90 152.40 25.40 76.20 152.40 139.70 63.50 12.70 88.90	
## ## ## ## ## ## ## ## ## ##	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Max.24hr.Precipitationmm. 12.700 22.860 35.052 32.766 31.750 30.226 32.766 38.608 29.718 26.162 14.224 38.608 15.748 21.082 21.336 61.468 64.770 31.242	Max.24hr.Snowfallmm. 279.40 38.10 109.22 312.42 33.02 76.20 0.00 25.40 50.80 215.90 152.40 25.40 76.20 152.40 139.70 63.50 12.70 88.90 345.44	
## ## ## ## ## ## ## ## ## ##	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Max.24hr.Precipitationmm. 12.700 22.860 35.052 32.766 31.750 30.226 32.766 38.608 29.718 26.162 14.224 38.608 15.748 21.082 21.336 61.468 64.770 31.242 35.560	Max.24hr.Snowfallmm. 279.40 38.10 109.22 312.42 33.02 76.20 0.00 25.40 50.80 215.90 152.40 76.20 152.40 139.70 63.50 12.70 88.90 345.44 5.08	
## ## ## ## ## ## ## ## ## ## ## ## ##	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Max.24hr.Precipitationmm. 12.700 22.860 35.052 32.766 31.750 30.226 32.766 38.608 29.718 26.162 14.224 38.608 15.748 21.082 21.336 61.468 64.770 31.242 35.560	Max.24hr.Snowfallmm. 279.40 38.10 109.22 312.42 33.02 76.20 0.00 25.40 50.80 215.90 152.40 76.20 152.40 139.70 63.50 12.70 88.90 345.44 5.08 114.30	
## ## ## ## ## ## ## ## ## ## ## ## ##	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Max.24hr.Precipitationmm. 12.700 22.860 35.052 32.766 31.750 30.226 32.766 38.608 29.718 26.162 14.224 38.608 15.748 21.082 21.336 61.468 64.770 31.242 35.560 35.814 47.498	Max.24hr.Snowfallmm. 279.40 38.10 109.22 312.42 33.02 76.20 0.00 25.40 50.80 215.90 152.40 25.40 76.20 152.40 139.70 63.50 12.70 88.90 345.44 5.08 114.30 27.94	
######################################	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Max.24hr.Precipitationmm. 12.700 22.860 35.052 32.766 31.750 30.226 32.766 38.608 29.718 26.162 14.224 38.608 15.748 21.082 21.336 61.468 64.770 31.242 35.560 35.814 47.498 36.068	Max.24hr.Snowfallmm. 279.40 38.10 109.22 312.42 33.02 76.20 0.00 25.40 50.80 215.90 152.40 25.40 76.20 152.40 139.70 63.50 12.70 88.90 345.44 5.08 114.30 27.94 33.02	
######################################	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Max.24hr.Precipitationmm. 12.700 22.860 35.052 32.766 31.750 30.226 32.766 38.608 29.718 26.162 14.224 38.608 15.748 21.082 21.336 61.468 64.770 31.242 35.560 35.814 47.498 36.068 12.700	Max.24hr.Snowfallmm. 279.40 38.10 109.22 312.42 33.02 76.20 0.00 25.40 50.80 215.90 152.40 25.40 76.20 152.40 139.70 63.50 12.70 88.90 345.44 5.08 114.30 27.94 33.02 144.78	
######################################	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Max.24hr.Precipitationmm. 12.700 22.860 35.052 32.766 31.750 30.226 32.766 38.608 29.718 26.162 14.224 38.608 15.748 21.082 21.336 61.468 64.770 31.242 35.560 35.814 47.498 36.068 12.700 21.590	Max.24hr.Snowfallmm. 279.40 38.10 109.22 312.42 33.02 76.20 0.00 25.40 50.80 215.90 152.40 25.40 76.20 152.40 139.70 63.50 12.70 88.90 345.44 5.08 114.30 27.94 33.02 144.78 20.32	

##	27	20.320	132.08
##	28	42.672	205.74
##	29	55.626	35.56
##	30	7.620	104.14
##	31	15.240	106.68
##	32	NA	25.40
##	33	69.342	147.32
##	34	10.414	104.14
##	35	20.574	50.80
##	36	87.630	78.74
##	37	45.720	347.98
##	38	31.496	127.00
##	39	49.276	48.26
##	40	20.320	33.02
##	41	26.670	142.24
##	42	37.846	45.72
##	43	16.256	45.72
##	44	25.146	162.56
##	45	4.064	66.04
##	46	10.922	25.40
##	47	33.020	38.10
##	48	20.828	12.70
##	49	18.288	147.32
##	50	16.256	160.02
##	51	32.766	292.10
##	52	9.652	76.20
##	53	39.878	10.16
##	54	19.812	139.70
##	55	21.336	45.72
##	56	21.082	22.86
##	57	21.844	114.30
##	58	12.446	73.66
##	59	13.208	12.70
##	60	7.874	22.86
##	61	11.430	137.16
##	62	33.020	50.80
##	63	21.590	147.32
##	64	32.258	22.86
##	65	11.684	10.16
##	66	43.180	139.70
##	67	31.242	88.90
##	68	23.622	101.60
##		17.526	45.72
##		19.558	170.18
	71	25.146	81.28
	72	31.750	180.34
##	73	27.686	71.12
	74	29.972	127.00
	75	52.324	38.10
	76	30.226	198.12
	77	34.290	53.34
	78	24.638	144.78
	79	60.706	228.60
##		27.686	325.12

```
## 81
                              28.956
                                                        2.54
## 82
                                                        0.00
                              20.828
## 83
                              33.782
                                                       15.24
## 84
                              23.622
                                                        7.62
## 85
                              20.574
                                                       45.72
## 86
                              19.812
                                                       15.24
## 87
                              16.256
                                                       45.72
                              11.176
## 88
                                                      129.54
## 89
                              24.130
                                                       58.42
## 90
                              48.768
                                                      292.10
## 91
                              36.576
                                                       60.96
                              42.672
                                                      198.12
## 92
## 93
                              35.052
                                                       86.36
## 94
                              44.450
                                                       45.72
## 95
                              16.256
                                                       71.12
## 96
                              30.988
                                                        7.62
## 97
                              29.210
                                                      149.86
## 98
                                                       45.72
                              14.478
## 99
                               7.620
                                                       76.20
## 100
                              59.690
                                                       40.64
## 101
                              38.354
                                                       27.94
## 102
                              13.716
                                                        5.08
## 103
                              23.622
                                                       88.90
## 104
                              19.304
                                                       25.40
## 105
                              29.972
                                                       25.40
## 106
                              38.100
                                                      109.22
## 107
                              37.084
                                                      254.00
## 108
                              24.384
                                                      152.40
## 109
                              21.590
                                                       38.10
## 110
                              23.114
                                                      279.40
## 111
                              18.288
                                                      190.50
## 112
                              33.020
                                                      101.60
## 113
                              20.320
                                                       76.20
## 114
                              22.860
                                                       45.72
## 115
                              37.084
                                                       12.70
```

#### Plot Year vs. Warmest Minimum Temperature.

```
ggplot(ex3, aes(Year, Warmest.Minimum.Temperature..C.)) + geom_line(col="red")
```



Plot Year vs. Warmest Minimum Temperature and Coldest Minimum Temperature. Don't forget to add a legend!

```
ggplot(ex3, aes(x = Year)) +
  geom_line(aes(y = Coldest.Minimum.Temperature..C., colour = "Coldest")) +
  geom_line(aes(y = Warmest.Minimum.Temperature..C., colour = "Warmest")) +
  scale_color_manual(name = "Temperature", values = c("blue", "red")) +
  labs(x = "Year", y = "Temperature (C)")
```

