Results

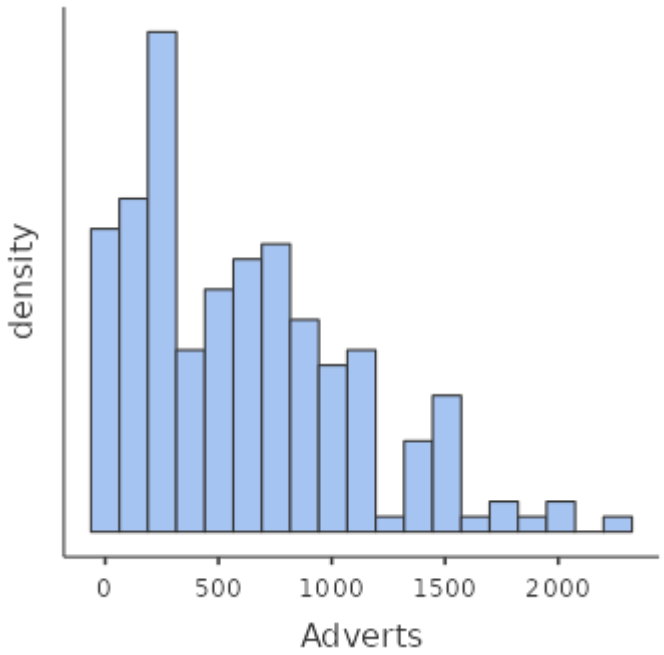
Descriptives

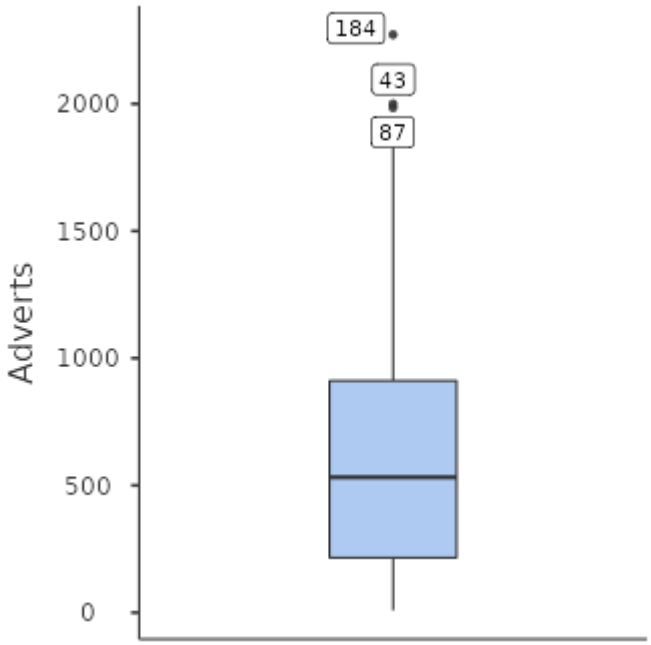
Descriptives

	Adverts	Sales	Airplay	Image
N	200	200	200	200
Missing	0	0	0	0
Mean	614	193	27.5	6.77
Median	532	200	28.0	7.00
Standard deviation	486	80.7	12.3	1.40
Minimum	9.10	10.0	0.00	1.00
Maximum	2272	360	63.0	10.0
Skewness	0.853	0.0439	0.0597	-1.29
Std. error skewness	0.172	0.172	0.172	0.172
Kurtosis	0.236	-0.680	-0.0342	3.74
Std. error kurtosis	0.342	0.342	0.342	0.342
Shapiro-Wilk W	0.925	0.985	0.993	0.877
Shapiro-Wilk p	< .001	0.030	0.408	< .001

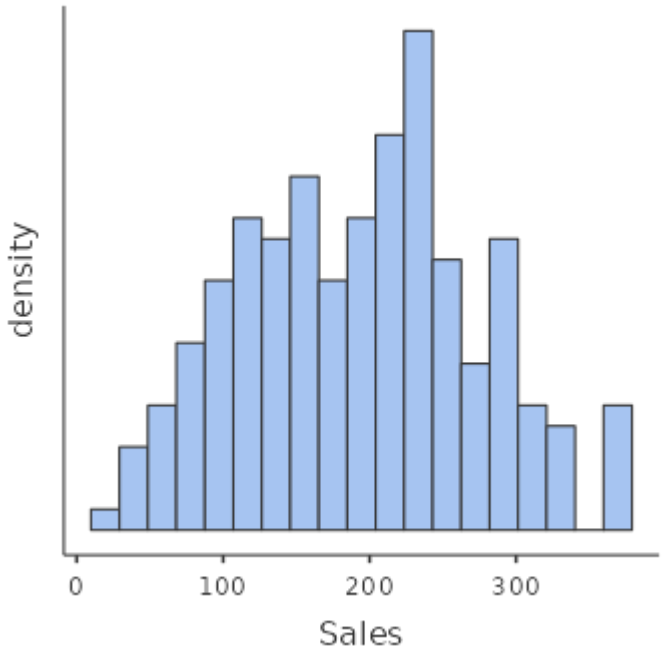
Plots

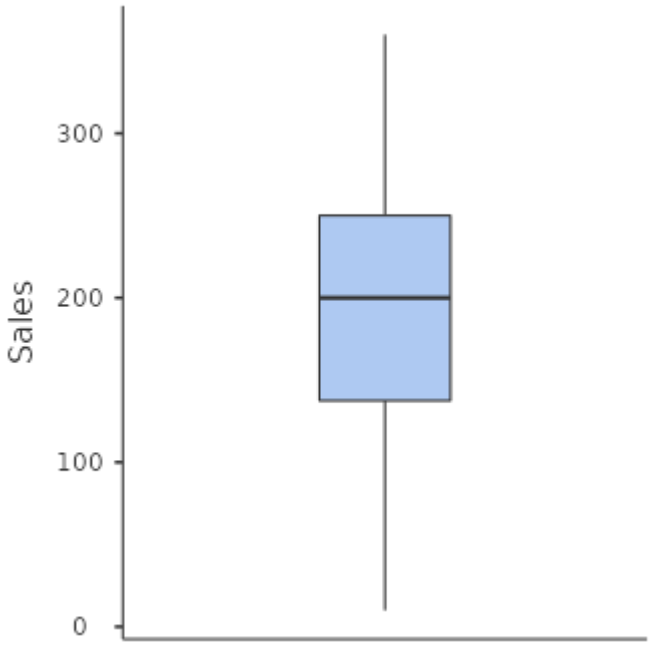
Adverts



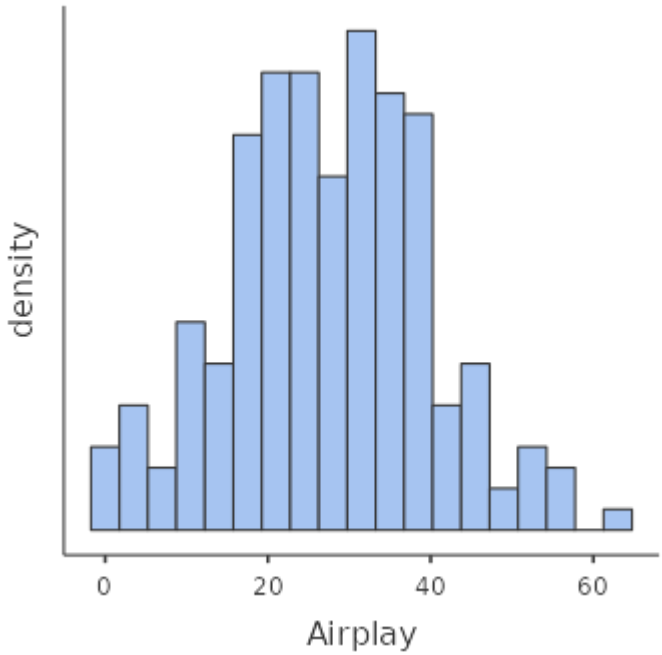

184
43
87
2000
1500
1000
500
0
Adverts

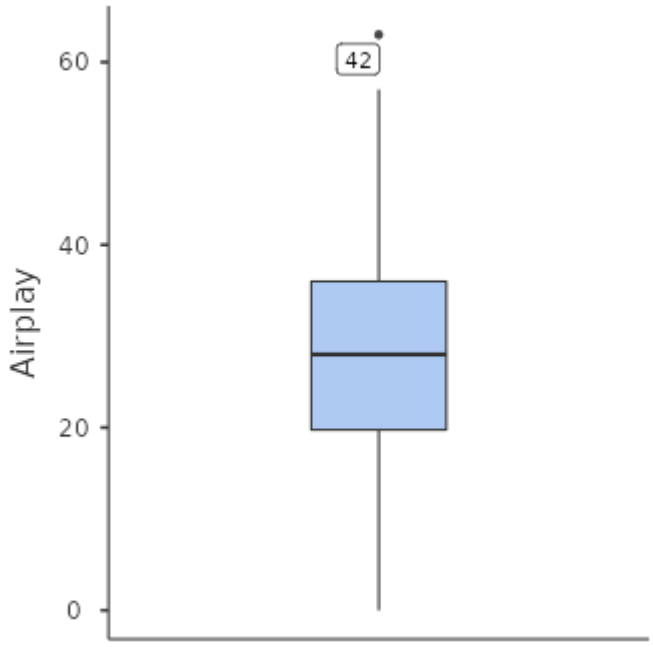
Sales


density
0
100
200
300
Sales

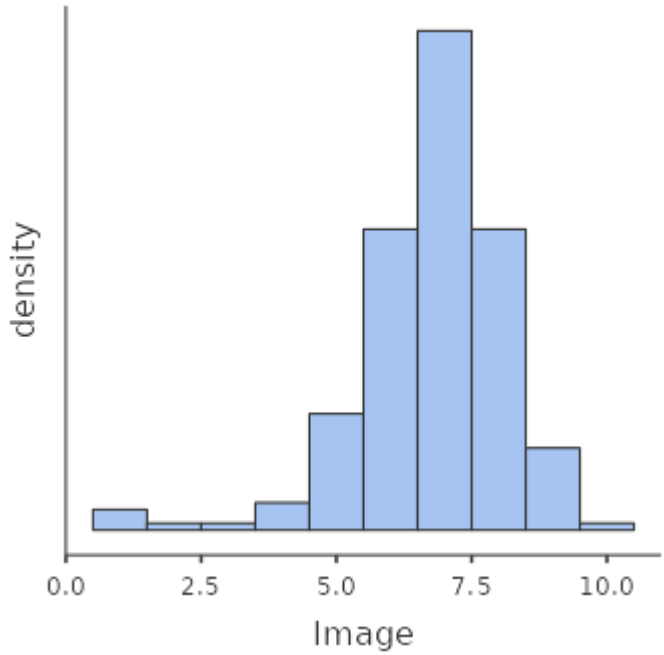


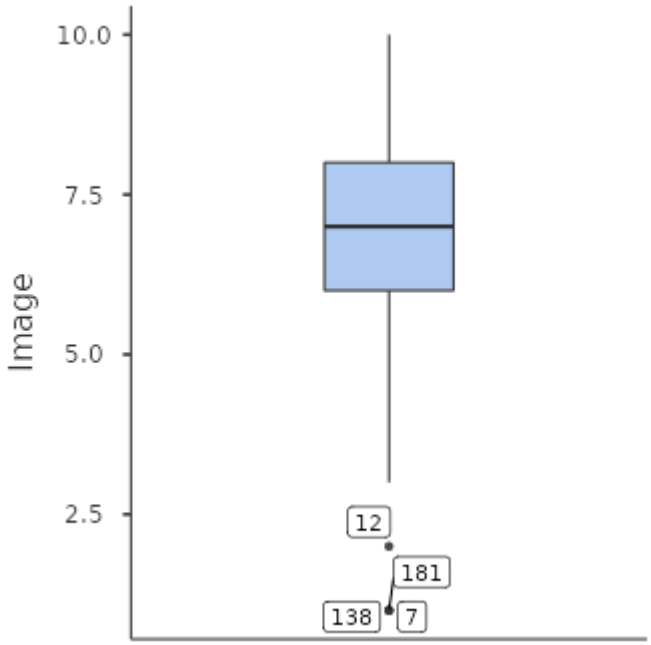
Airplay



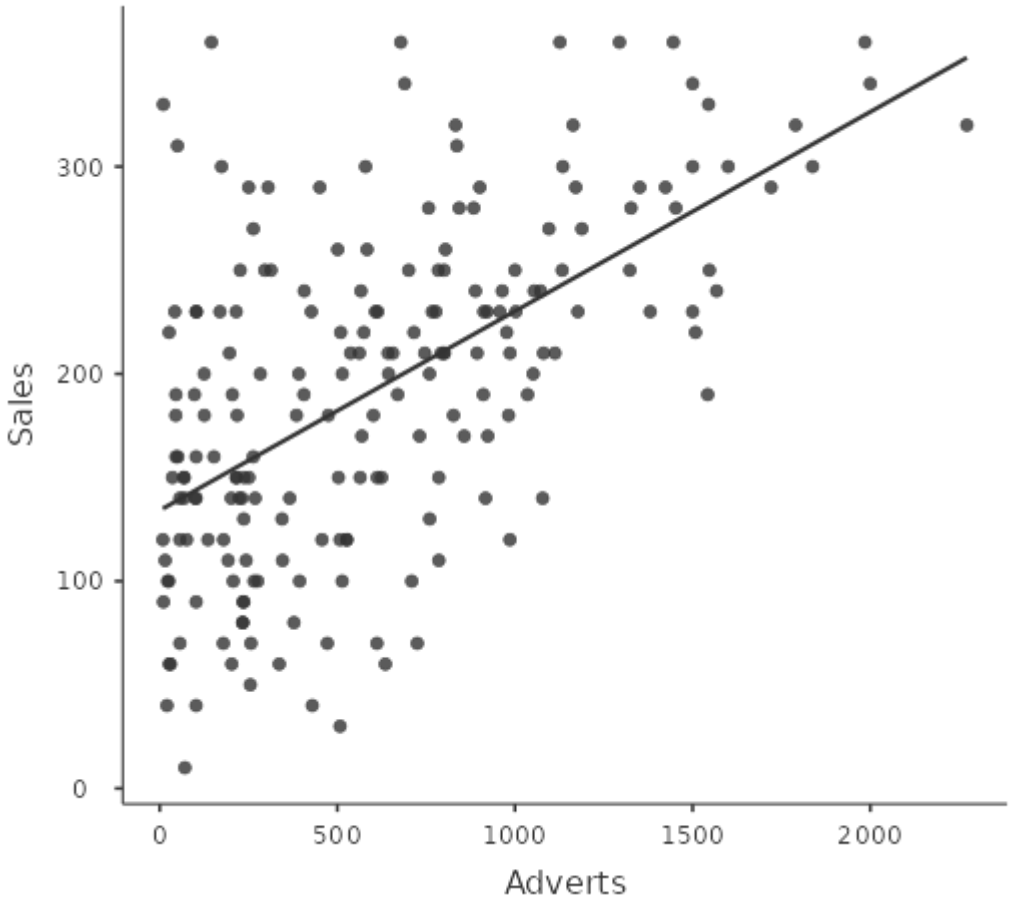


Image

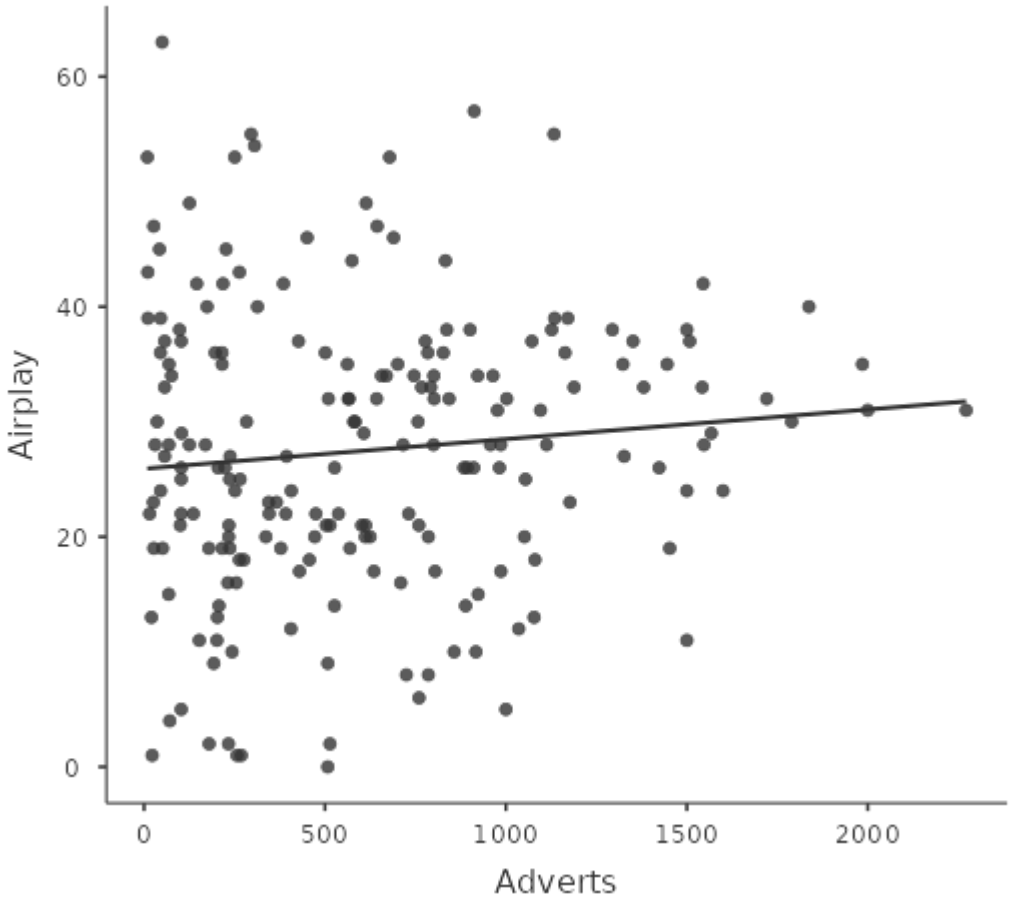




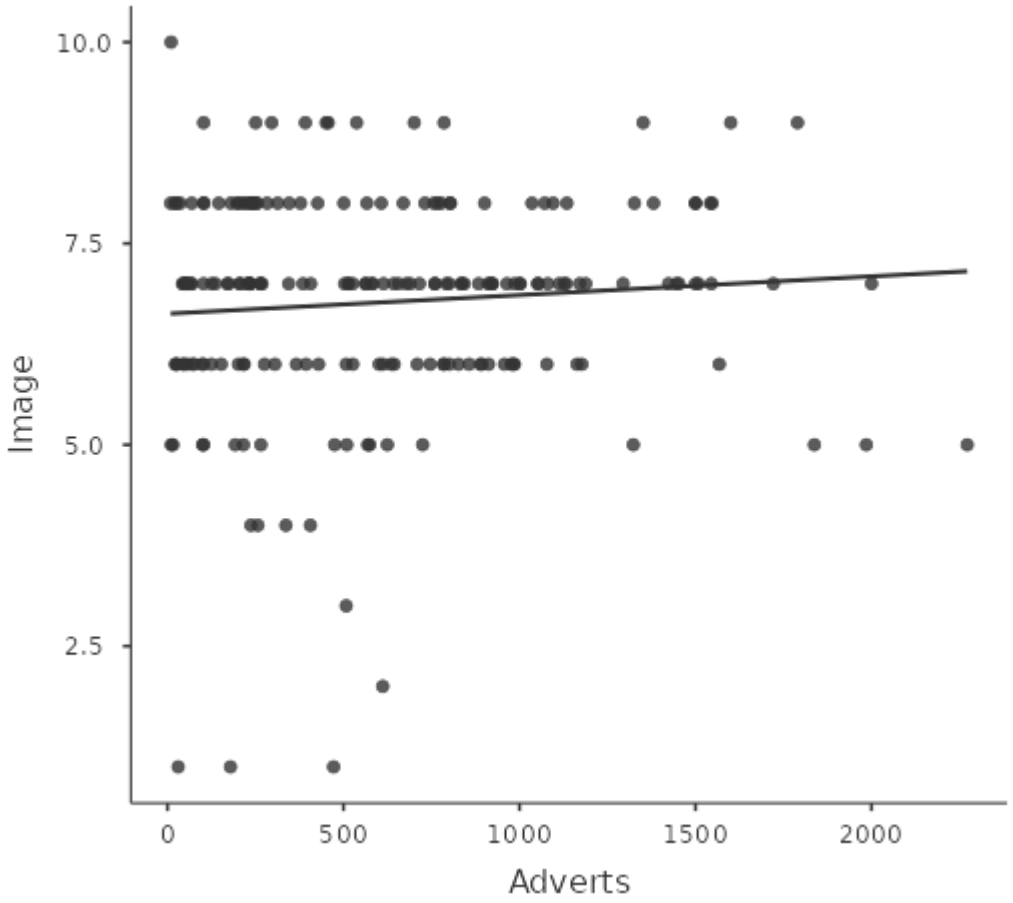
Scatterplot



Scatterplot



Scatterplot

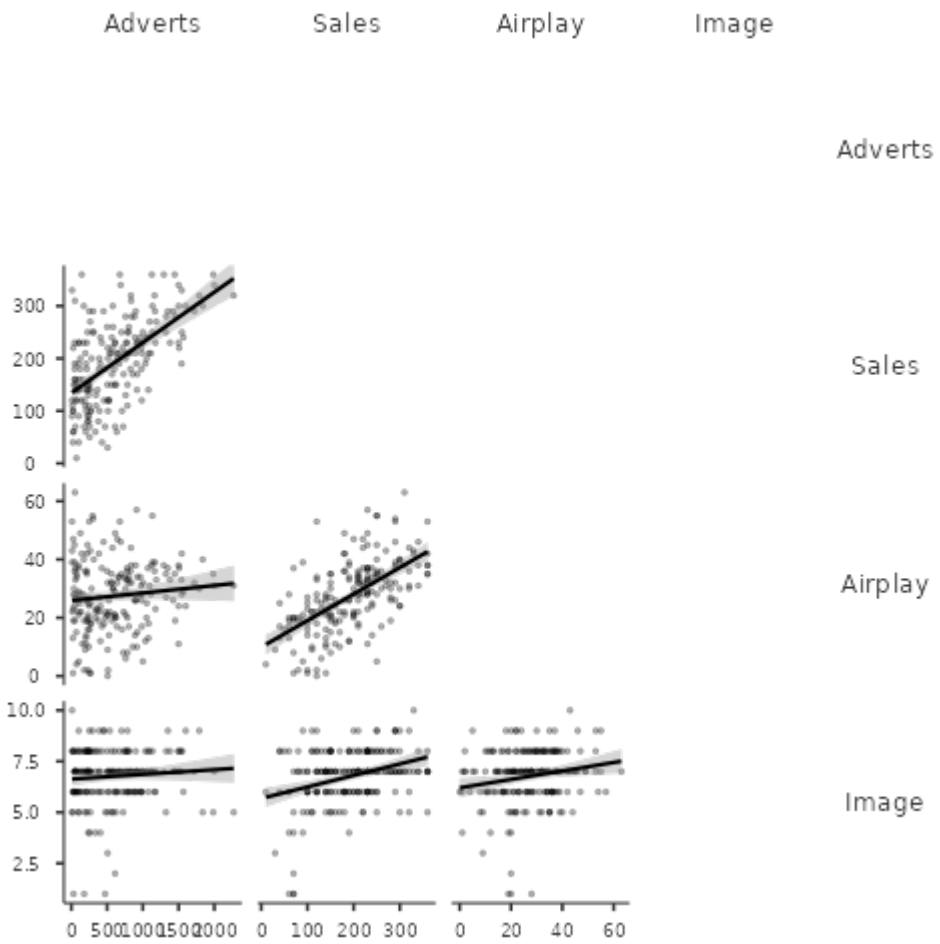


Correlation Matrix

Correlation Matrix

		Adverts	Sales	Airplay	Image
Adverts	Pearson's r	—			
	df	—			
	p-value	—			
Sales	Pearson's r	0.578	—		
	df	198	—		
	p-value	< .001	—		
Airplay	Pearson's r	0.102	0.599	—	
	df	198	198	—	
	p-value	0.151	< .001	—	
Image	Pearson's r	0.081	0.326	0.182	—
	df	198	198	198	—
	p-value	0.256	< .001	0.010	—

Plot



Linear Regression

Model Fit Measures

				Overall Model Test			
Model	**R**	**R²**	**Adjusted R²**	**F**	**df1**	**df2**	**p**
1	0.578	0.335	0.331	99.6	1	198	< .001

Omnibus ANOVA Test

	Sum of Squares	**df**	**Mean Square**	**F**	**p**
Adverts	433688	1	433688	99.6	< .001
Residuals	862264	198	4355		

Note. Type 3 sum of squares

[3]

Model Coefficients - Sales

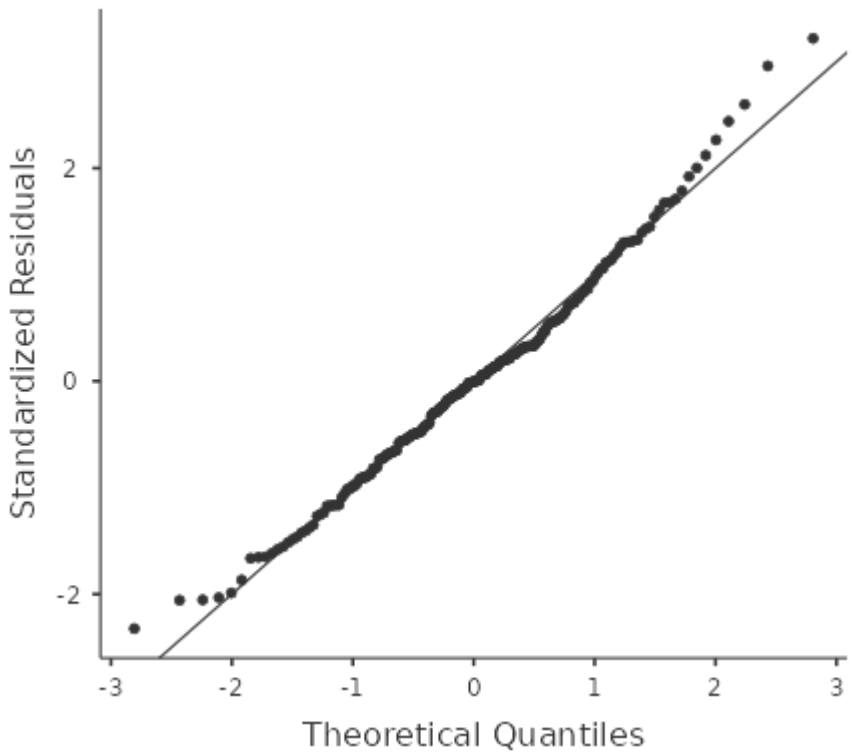
Predictor	Estimate	SE	95% Confidence Interval		t	p	Stand. Estimate
			Lower	Upper			
Intercept	134.1399	7.53657	119.2777	149.002	17.80	< .001	
Adverts	0.0961	0.00963	0.0771	0.115	9.98	< .001	0.578

Assumption Checks

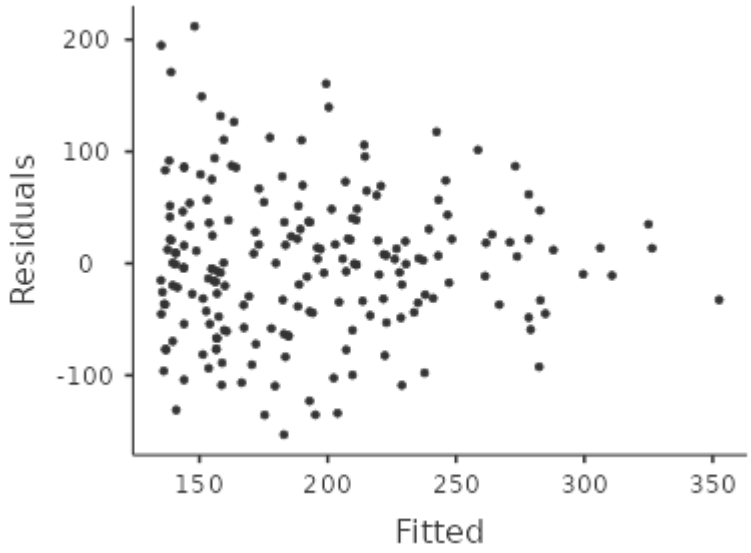
Normality Test (Shapiro-Wilk)

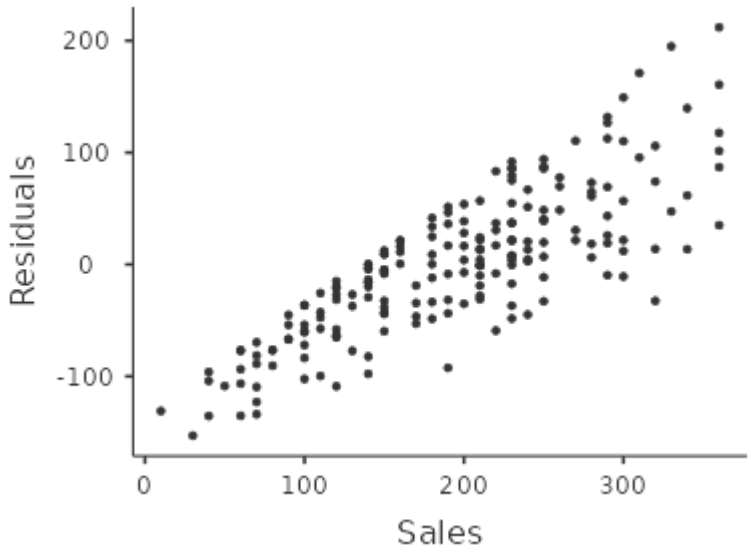
Statistic	p
0.990	0.176

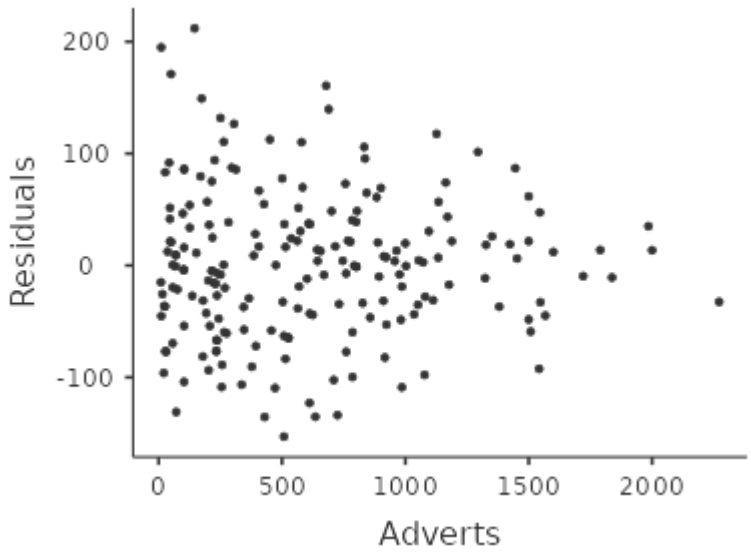
Q-Q Plot



Residuals Plots


Residuals
200
100
0
-100
150
200
250
300
350
Fitted


Residuals
200
100
0
-100
0
100
200
300
Sales


Residuals
200
100
0
-100
0
500
1000
1500
2000
Adverts

References

[1] The jamovi project (2022). *jamovi*. (Version 2.3) [Computer Software]. Retrieved from https://www.jamovi.org.

[2] R Core Team (2021). *R: A Language and environment for statistical computing*. (Version 4.1) [Computer software]. Retrieved from https://cran.r-project.org. (R packages retrieved from MRAN snapshot 2022-01-01).

[3] Fox, J., & Weisberg, S. (2020). *car: Companion to Applied Regression*. [R package]. Retrieved from https://cran.r-project.org/package=car.