

## Results

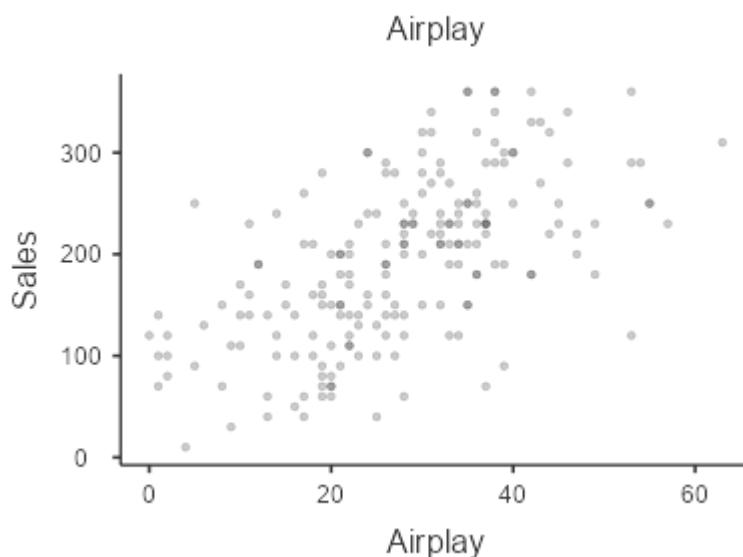
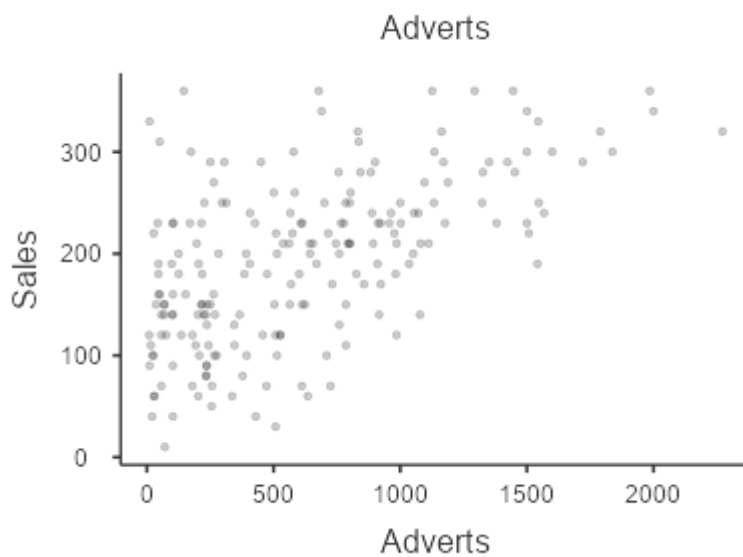
### Relationships, Prediction, and Group Comparisons

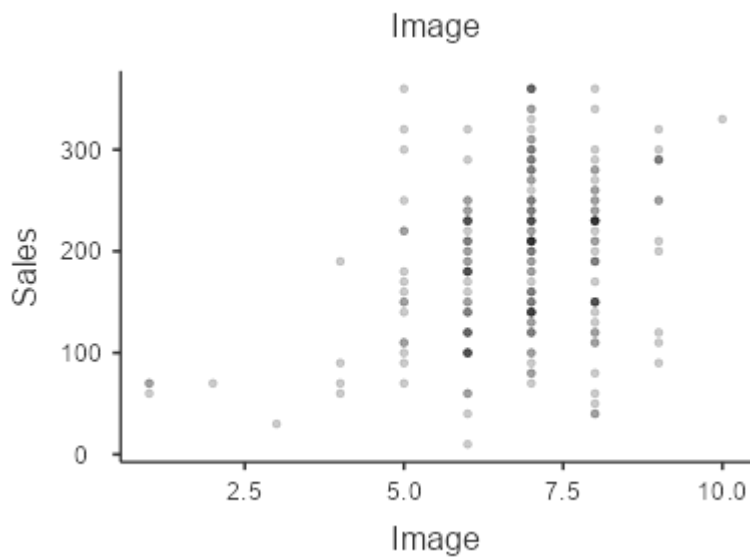
You have entered a numeric dependent variable and several numeric independent variables. Hence, [linear regression analysis](#) seems to be a good option for you! In order to run this analysis in jamovi, go to: Regression > Linear Regression

- Drop your dependent variable in the box below Dependent Variable
- Drop your independent variables in the box below Covariates

Click on the link to learn more about this method!

### Scatter Plots of Bivariate Relationships - Dependent/Independent Variables





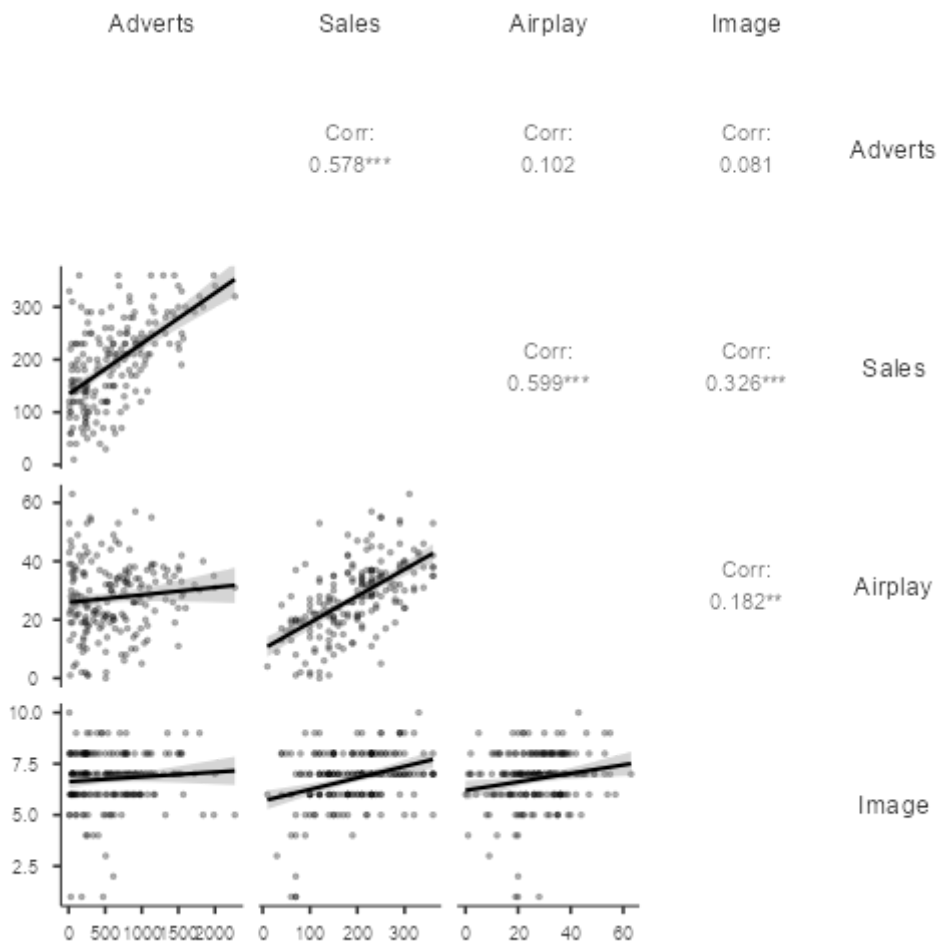
## Correlation Matrix

Correlation Matrix

		Adverts	Sales	Airplay	Image
Adverts	Pearson's r	—			
	p-value	—			
	N	—			
Sales	Pearson's r	0.578 <sup>***</sup>	—		
	p-value	< .001	—		
	N	200	—		
Airplay	Pearson's r	0.102	0.599 <sup>***</sup>	—	
	p-value	0.151	< .001	—	
	N	200	200	—	
Image	Pearson's r	0.081	0.326 <sup>***</sup>	0.182 <sup>**</sup>	—
	p-value	0.256	< .001	0.010	—
	N	200	200	200	—

Note. \*  $p < .05$ , \*\*  $p < .01$ , \*\*\*  $p < .001$

## Plot



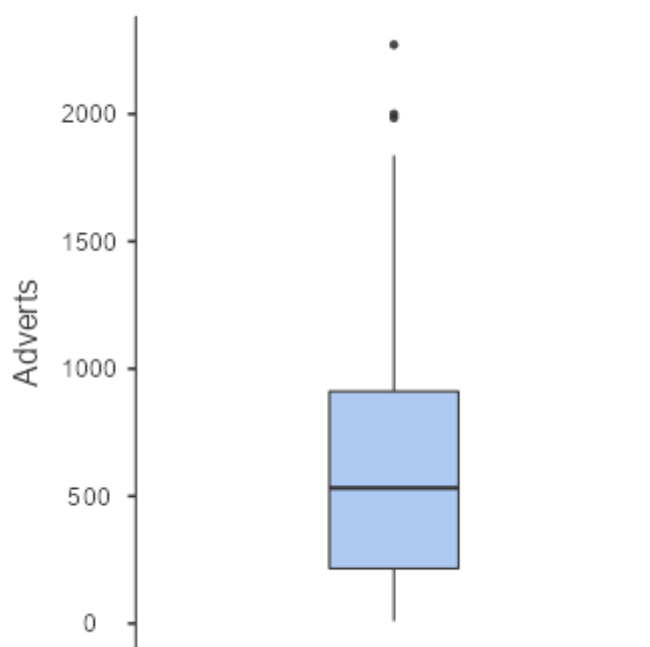
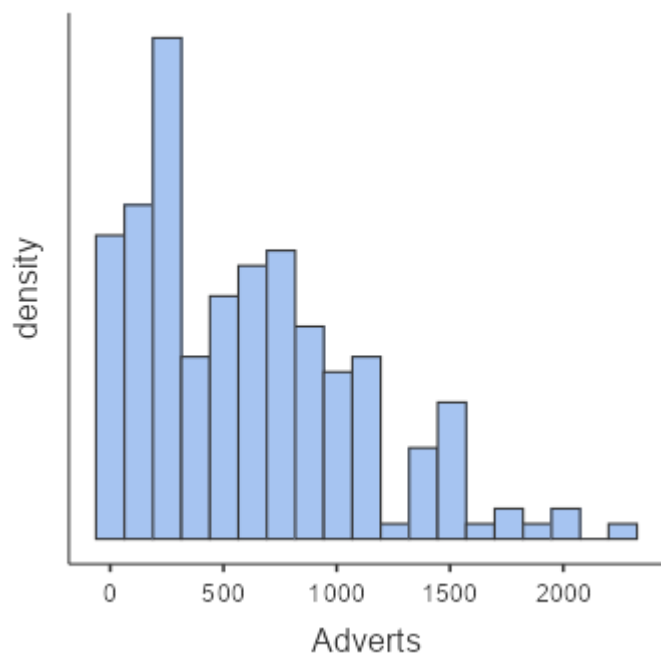
## Descriptives

Descriptives

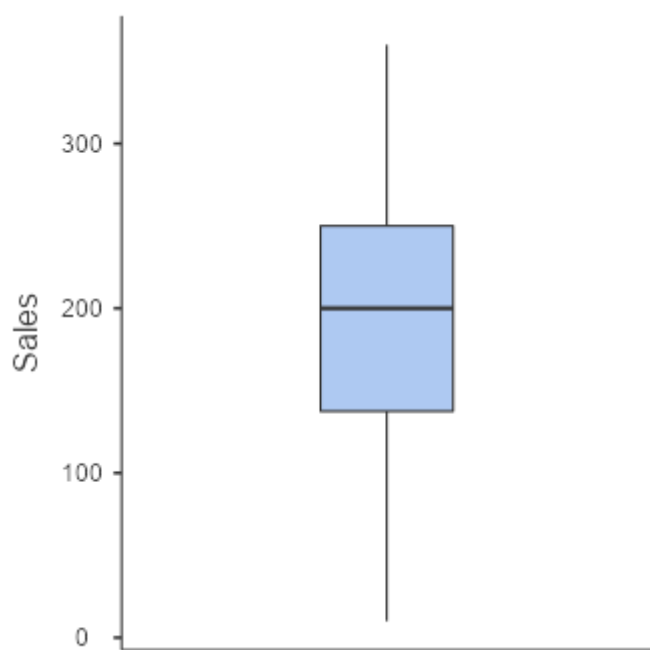
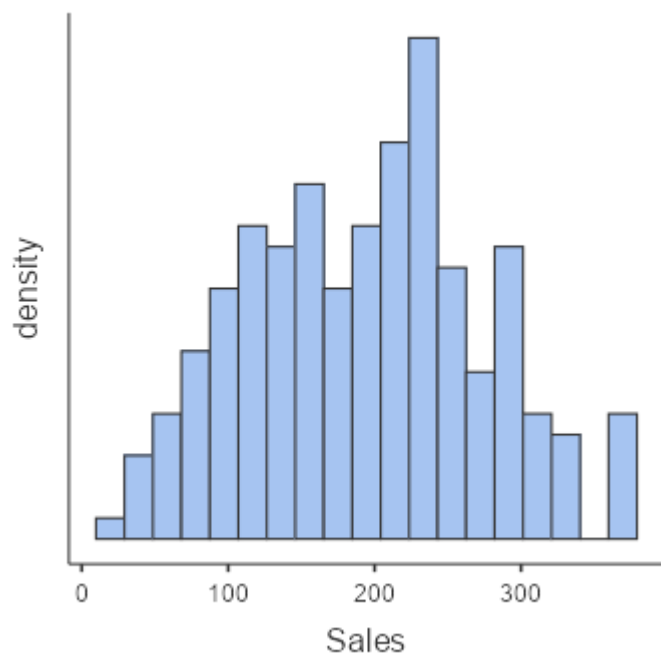
	Adverts	Sales	Airplay	Image
N	200	200	200	200
Missing	0	0	0	0
Mean	614	193	27.5	6.77
Median	532	200	28.0	7.00
Standard deviation	486	80.7	12.3	1.40
Minimum	9.10	10.0	0.00	1.00
Maximum	2272	360	63.0	10.0
Skewness	0.853	0.0439	0.0597	-1.29
Std. error skewness	0.172	0.172	0.172	0.172
Kurtosis	0.236	-0.680	-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

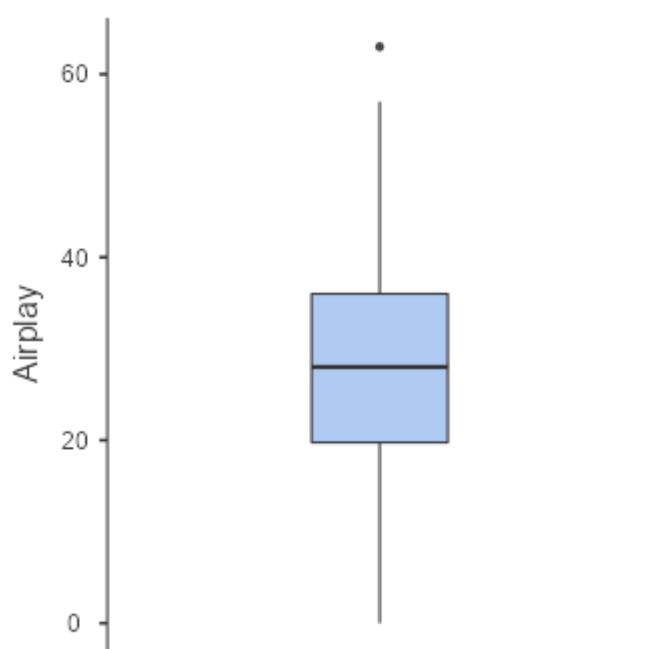
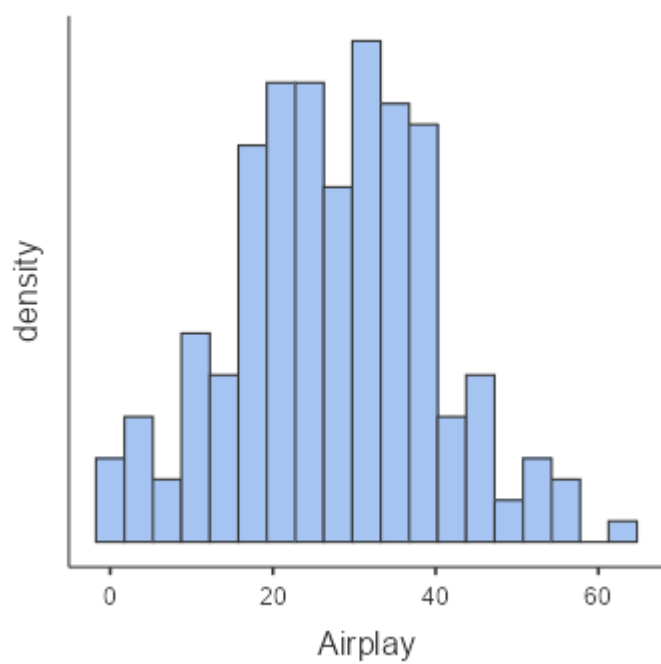
Adverts



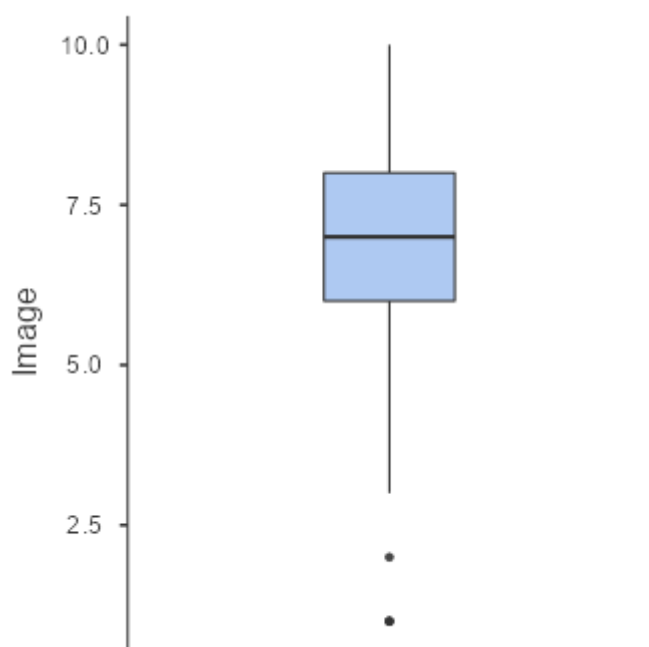
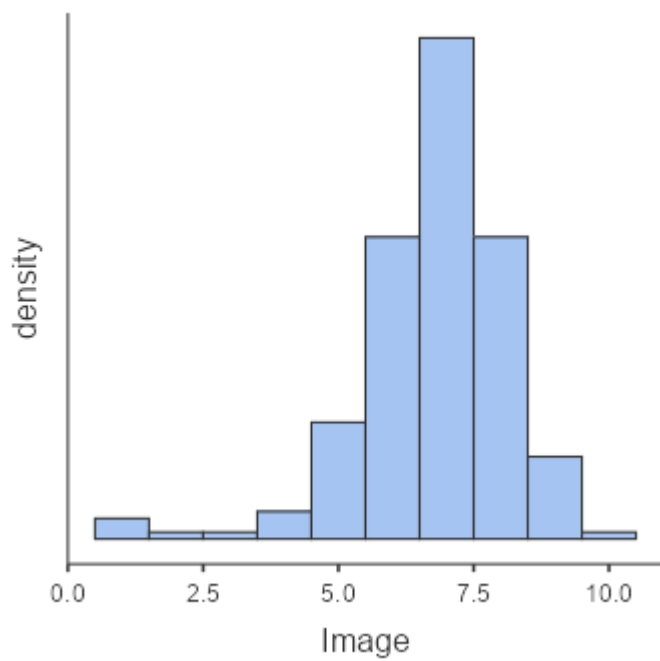
**Sales**



**Airplay**



Image



## Linear Regression

Model Fit Measures

Model	R	R <sup>2</sup>	Adjusted R <sup>2</sup>	Overall Model Test			
				F	df1	df2	p
1	0.578	0.335	0.331	99.6	1	198	< .001
2	0.815	0.665	0.660	129.5	3	196	< .001

Model Comparisons

Comparison		$\Delta R^2$	F	df1	df2	p
Model	Model					
1	- 2	0.330	96.4	2	196	< .001

Model Specific ResultsModel 1Model 2

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]

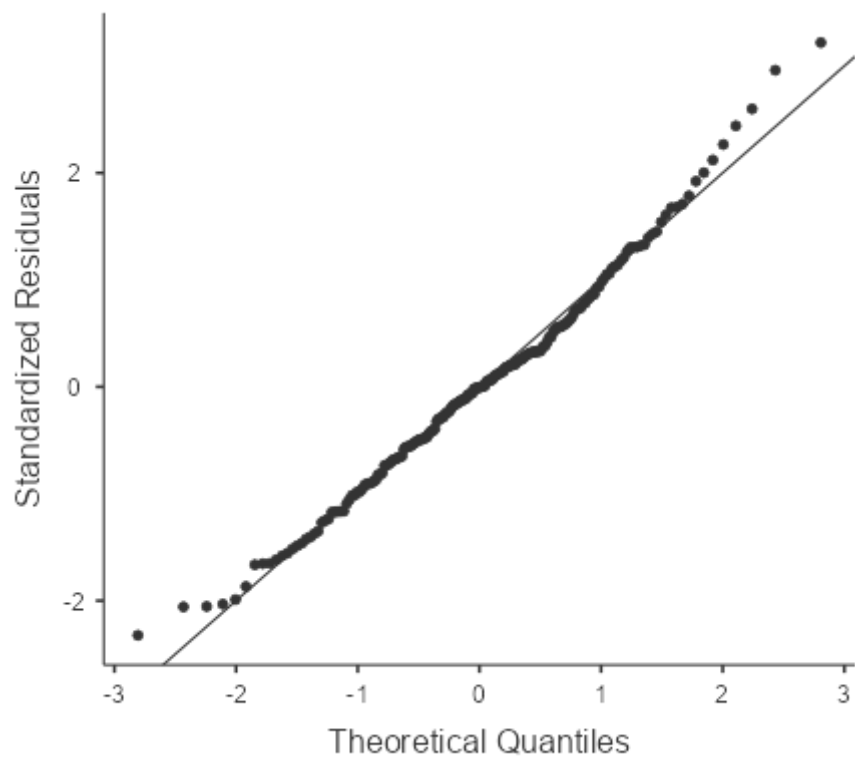
Model Coefficients - Sales

Predictor	Estimate	SE	95% Confidence Interval		t	p	Stand. Estimate	95% Confidence Interval	
			Lower	Upper				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	0.464	0.693

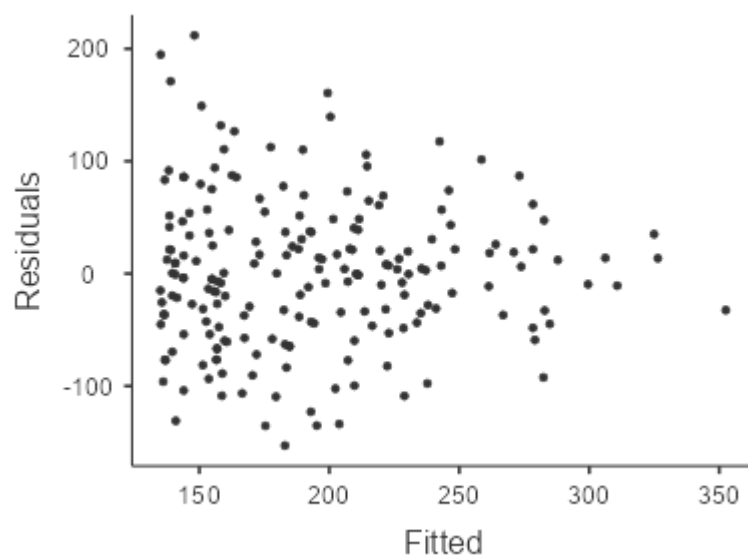
Assumption Checks

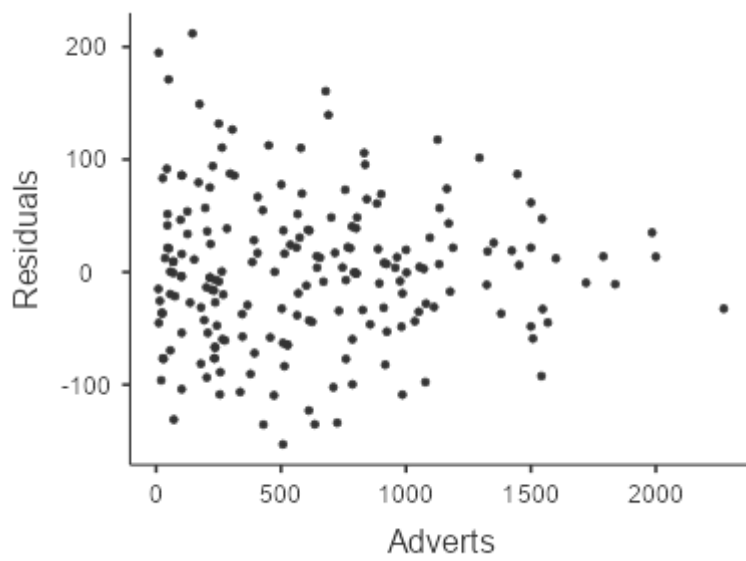
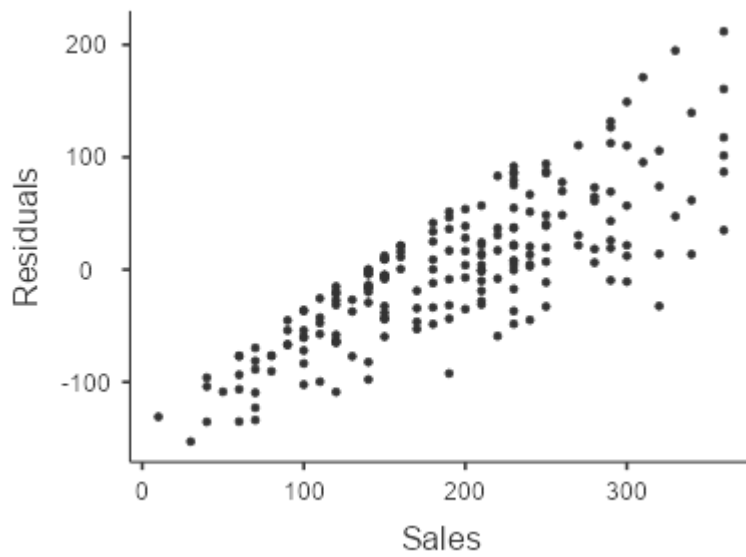
Q-Q Plot





### Residuals Plots





Omnibus ANOVA Test

	Sum of Squares	df	Mean Square	F	p
Adverts	333332	1	333332	150.3	< .001
Airplay	325860	1	325860	147.0	< .001
Image	45853	1	45853	20.7	< .001
Residuals	434575	196	2217		

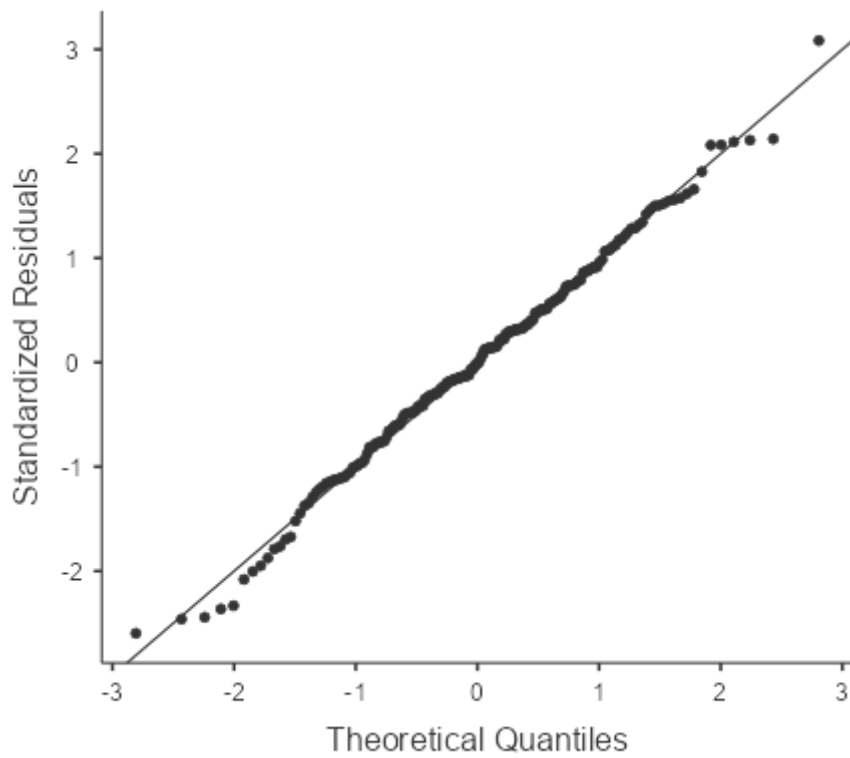
Note. Type 3 sum of squares

[3]

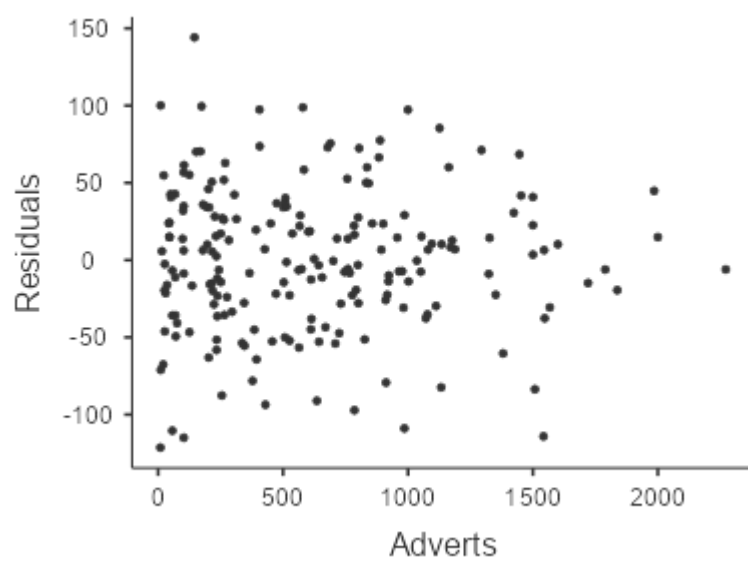
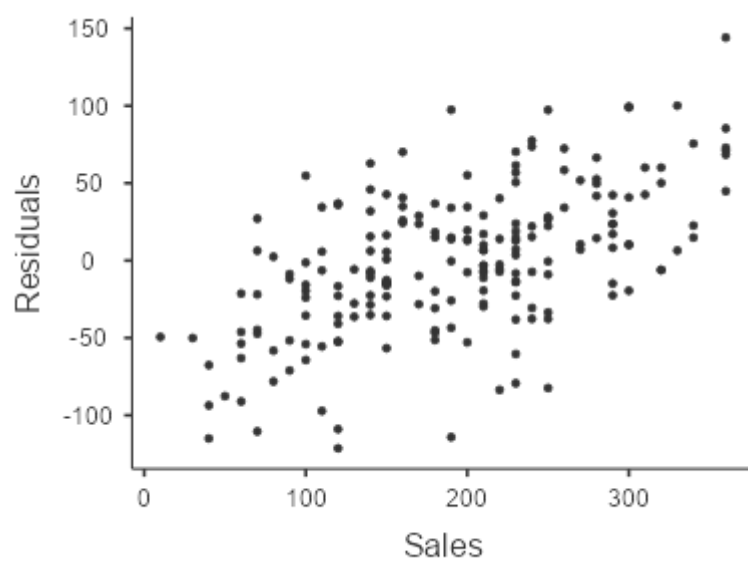
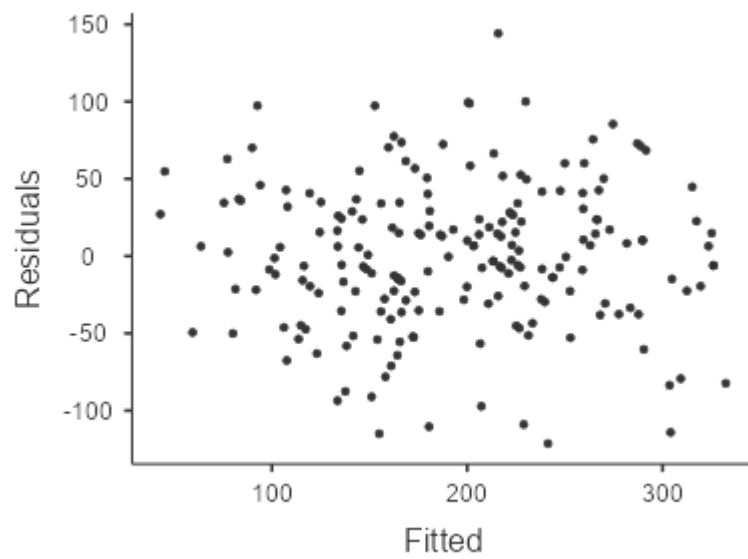
Predictor	Estimate	SE	95% Confidence Interval		t	p	Stand. Estimate	95% Confidence Interval	
			Lower	Upper				Lower	Upper
Intercept	-26.6130	17.35000	-60.8296	7.6037	-1.53	0.127			
Adverts	0.0849	0.00692	0.0712	0.0985	12.26	< .001	0.511	0.429	0.593
Airplay	3.3674	0.27777	2.8196	3.9152	12.12	< .001	0.512	0.429	0.595
Image	11.0863	2.43785	6.2786	15.8941	4.55	< .001	0.192	0.109	0.275

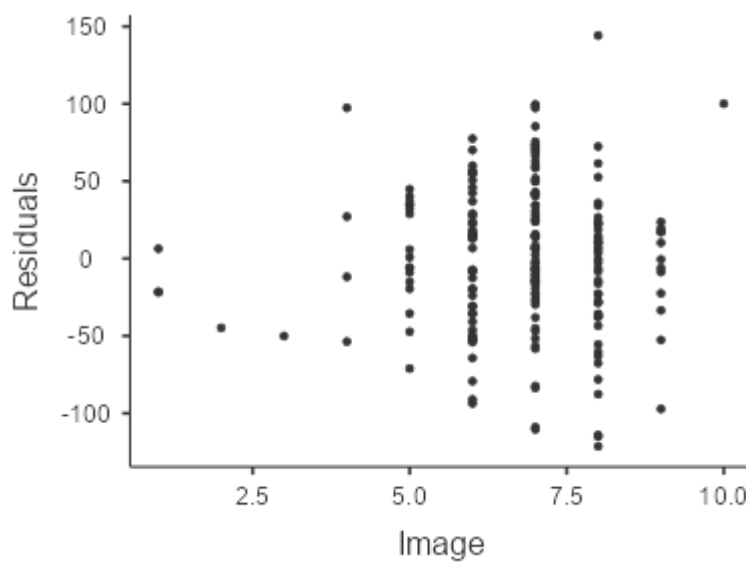
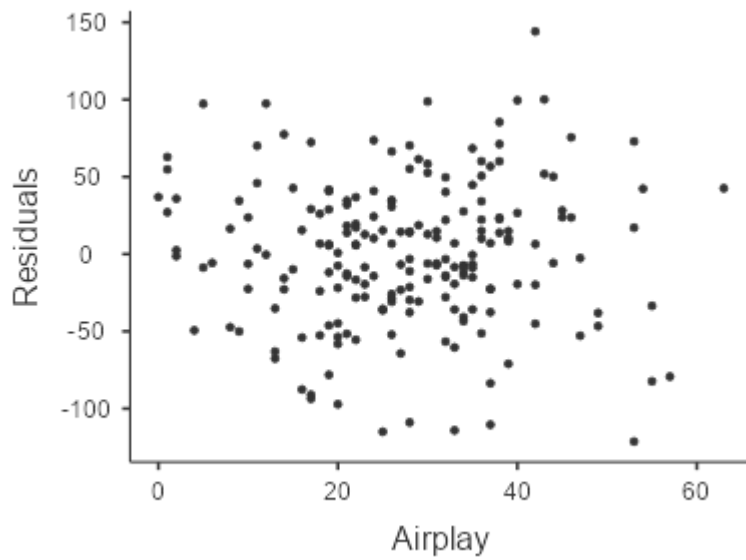
## Assumption Checks

### Q-Q Plot



### Residuals Plots





## References

- [1] The jamovi project (2021). *jamovi*. (Version 2.2) [Computer Software]. Retrieved from <https://www.jamovi.org>.
- [2] R Core Team (2021). *R: A Language and environment for statistical computing*. (Version 4.0) [Computer software]. Retrieved from <https://cran.r-project.org>. (R packages retrieved from MRAN snapshot 2021-04-01).
- [3] Fox, J., & Weisberg, S. (2020). *car: Companion to Applied Regression*. [R package]. Retrieved from <https://cran.r-project.org/package=car>.