

#Channels_of_advertising_multiple_linear_regression

```
print("Viewership on different media")
print("Rishabh")
```

```
Viewership<-c(992, 638, 367, 241, 289, 655, 631, 745, 952, 702, 641, 619, 777, 735, 460, 391,
437, 839, 589, 348)
```

```
Youtube<-c(778, 313, 307, 491, 585, 809, 516, 677, 322, 530, 666, 574, 866, 508, 932, 192,
298, 433, 608, 284)
```

```
Facebook<-c(191, 591, 657, 813, 640, 444, 947, 695, 425, 350, 618, 301, 540, 803, 100, 413,
352, 381, 362, 433)
```

```
Twitter<-c(316, 725, 124, 273, 575, 410, 710, 976, 294, 709, 634, 501, 244, 852, 475, 905, 421,
895, 744, 787)
```

```
Instagram<-c(693, 190, 552, 745, 955, 107, 352, 991, 326, 660, 204, 560, 295, 829, 980, 514,
667, 449, 930, 704)
```

```
Television<-c(529, 480, 670, 914, 269, 970, 734, 925, 656, 138, 462, 843, 565, 762, 454, 815,
173, 768, 745, 999)
```

```
model<-lm(Viewership ~ Youtube + Facebook + Twitter + Instagram + Television)
```

```
print(model)
plot(model)
summary(model)
predict(model)
```

Output

```
[1] "Viewership on different media"
[1] "Rishabh"
```

Call:

```
lm(formula = Viewership ~ Youtube + Facebook + Twitter + Instagram +
    Television)
```

Coefficients:

(Intercept)	Youtube	Facebook	Twitter	Instagram
594.80640	0.36442	-0.20364	0.21586	-0.33653
-0.01979				

Call:

```
lm(formula = Viewership ~ Youtube + Facebook + Twitter + Instagram +  
    Television)
```

Residuals:

Min	1Q	Median	3Q	Max
-217.83	-161.81	-30.14	77.11	385.62

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	594.80640	252.50484	2.356	0.0336 *
Youtube	0.36442	0.23698	1.538	0.1464
Facebook	-0.20364	0.23223	-0.877	0.3954
Twitter	0.21586	0.20354	1.061	0.3069
Instagram	-0.33653	0.17985	-1.871	0.0824 .
Television	-0.01979	0.19512	-0.101	0.9207

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 206.6 on 14 degrees of freedom

Multiple R-squared: 0.3021, Adjusted R-squared: 0.05279

F-statistic: 1.212 on 5 and 14 DF, p-value: 0.3538

1	2	3	4	5	6	7
8						
663.9564	671.5799	400.6361	398.3059	475.0724	832.5061	610.2801
558.8620						
9	10	11	12	13	14	15
16						
566.3757	644.8787	770.7235	645.6941	742.6426	506.2598	677.8289
586.9207						
17	18	19	20			
494.7097	701.9085	575.5386	523.3204			

[Execution complete with exit code 0]



