

Web Data Analysis

Analysis task 1

The team wants to analyze each variable of the data collected through data summarization to get a basic understanding of the dataset and to prepare for further analysis.

Using the summary function to perform a summary analysis of the entire dataset the following output was

```
> summary(internet_dataset)
      Bounces      Exits      Continent      Sourcegroup      Timeinpage      Uniquepageviews
Min.   : 0.000   Min.   : 0.000   Length:32109   Length:32109   Min.    :  0.00   Min.    : 1.000
1st Qu.: 0.000   1st Qu.: 1.000   Class :character   Class :character   1st Qu.:  0.00   1st Qu.: 1.000
Median : 1.000   Median : 1.000   Mode  :character   Mode  :character   Median :  0.00   Median : 1.000
Mean   : 0.713   Mean   : 0.906                      Mean   : 73.18   Mean   : 1.114
3rd Qu.: 1.000   3rd Qu.: 1.000                      3rd Qu.: 10.00   3rd Qu.: 1.000
Max.   :30.000   Max.   :36.000                      Max.   :46745.00   Max.   :45.000

      Visits      BouncesNew
Min.   : 0.000   Min.   :0.00000
1st Qu.: 1.000   1st Qu.:0.00000
Median : 1.000   Median :0.01000
Mean   : 0.906   Mean   :0.00713
3rd Qu.: 1.000   3rd Qu.:0.01000
Max.   :45.000   Max.   :0.30000
received:
```

The output clearly displays that the maximum bounce was 30, the maximum exits were 36, the average time spent on a page was 73.18(not specified whether it is in seconds or minutes).

I then proceeded to separate the summary of the data and group the data according to the continents present in the data set to get a clearly understand of user activity per continent.

```
> by(internet_dataset,internet_dataset$Continent, summary)
internet_dataset$Continent: AF
      Bounces      Exits      Continent      Sourcegroup      Timeinpage      Uniquepageviews
Min.   :0.000000   Min.   :0.0000   Length:321   Length:321   Min.    :  0.00   Min.    :1.000
1st Qu.:0.000000   1st Qu.:1.0000   Class :character   Class :character   1st Qu.:  0.00   1st Qu.:1.000
Median :0.010000   Median :1.0000   Mode  :character   Mode  :character   Median :  0.00   Median :1.000
Mean   :0.007196   Mean   :0.8847                      Mean   : 55.23   Mean   :1.053
3rd Qu.:0.010000   3rd Qu.:1.0000                      3rd Qu.:  0.00   3rd Qu.:1.000
Max.   :0.030000   Max.   :3.0000                      Max.   :2613.00   Max.   :3.000

      Visits      BouncesNew
Min.   :0.0000   Min.   :0.000000
1st Qu.:1.0000   1st Qu.:0.000000
Median :1.0000   Median :0.010000
Mean   :0.8847   Mean   :0.007196
3rd Qu.:1.0000   3rd Qu.:0.010000
Max.   :3.0000   Max.   :0.030000

-----
internet_dataset$Continent: AS
      Bounces      Exits      Continent      Sourcegroup      Timeinpage      Uniquepageviews
Min.   :0.00000   Min.   :0.0000   Length:3171   Length:3171   Min.    :  0.00   Min.    :1.000
1st Qu.:0.00000   1st Qu.:1.0000   Class :character   Class :character   1st Qu.:  0.00   1st Qu.:1.000
Median :0.01000   Median :1.0000   Mode  :character   Mode  :character   Median :  0.00   Median :1.000
Mean   :0.00731   Mean   :0.9085                      Mean   : 60.85   Mean   :1.071
3rd Qu.:0.01000   3rd Qu.:1.0000                      3rd Qu.:  2.00   3rd Qu.:1.000
Max.   :0.05000   Max.   :5.0000                      Max.   :5197.00   Max.   :8.000

      Visits      BouncesNew
Min.   :0.0000   Min.   :0.00000
1st Qu.:1.0000   1st Qu.:0.00000
Median :1.0000   Median :0.01000
Mean   :0.9085   Mean   :0.00731
3rd Qu.:1.0000   3rd Qu.:0.01000
Max.   :7.0000   Max.   :0.05000
-----
```

```

-----
internet_dataset$Continent: EU
  Bounces      Exits      Continent      Sourcegroup      Timeinpage      Uniquepageviews
Min.   :0.000000  Min.   : 0.0000  Length:6470  Length:6470  Min.   : 0.00  Min.   : 1.000
1st Qu.:0.000000  1st Qu.: 1.0000  Class :character  Class :character  1st Qu.: 0.00  1st Qu.: 1.000
Median :0.010000  Median : 1.0000  Mode  :character  Mode  :character  Median : 0.00  Median : 1.000
Mean   :0.007134  Mean   : 0.8981                Mean   : 60.36  Mean   : 1.075
3rd Qu.:0.010000  3rd Qu.: 1.0000                3rd Qu.: 4.00  3rd Qu.: 1.000
Max.   :0.090000  Max.   :10.0000                Max.   :14392.00 Max.   :11.000

  Visits      BouncesNew
Min.   : 0.0000  Min.   :0.000000
1st Qu.: 1.0000  1st Qu.:0.000000
Median : 1.0000  Median :0.010000
Mean   : 0.8981  Mean   :0.007134
3rd Qu.: 1.0000  3rd Qu.:0.010000
Max.   :11.0000  Max.   :0.090000

```

```

-----
internet_dataset$Continent: N.America
  Bounces      Exits      Continent      Sourcegroup      Timeinpage      Uniquepageviews
Min.   :0.000000  Min.   : 0.0000  Length:20043  Length:20043  Min.   : 0.00  Min.   : 1.000
1st Qu.:0.000000  1st Qu.: 1.0000  Class :character  Class :character  1st Qu.: 0.00  1st Qu.: 1.000
Median :0.010000  Median : 1.0000  Mode  :character  Mode  :character  Median : 0.00  Median : 1.000
Mean   :0.007079  Mean   : 0.9089                Mean   : 77.56  Mean   : 1.138
3rd Qu.:0.010000  3rd Qu.: 1.0000                3rd Qu.: 14.00  3rd Qu.: 1.000
Max.   :0.300000  Max.   :36.0000                Max.   :14108.00 Max.   :45.000

  Visits      BouncesNew
Min.   : 0.0000  Min.   :0.000000
1st Qu.: 1.0000  1st Qu.:0.000000
Median : 1.0000  Median :0.010000
Mean   : 0.9089  Mean   :0.007079
3rd Qu.: 1.0000  3rd Qu.:0.010000
Max.   :45.0000  Max.   :0.300000

```

```

-----
internet_dataset$Continent: OC
  Bounces      Exits      Continent      Sourcegroup      Timeinpage      Uniquepageviews
Min.   :0.000000  Min.   :0.0000  Length:1356  Length:1356  Min.   : 0.00  Min.   :1.000
1st Qu.:0.000000  1st Qu.:1.0000  Class :character  Class :character  1st Qu.: 0.00  1st Qu.:1.000
Median :0.010000  Median :1.0000  Mode  :character  Mode  :character  Median : 0.00  Median :1.000
Mean   :0.007404  Mean   :0.9027                Mean   : 66.23  Mean   :1.071
3rd Qu.:0.010000  3rd Qu.:1.0000                3rd Qu.: 1.00  3rd Qu.:1.000
Max.   :0.050000  Max.   :6.0000                Max.   :3246.00 Max.   :6.000

  Visits      BouncesNew
Min.   :0.0000  Min.   :0.000000
1st Qu.:1.0000  1st Qu.:0.000000
Median :1.0000  Median :0.010000
Mean   :0.9027  Mean   :0.007404
3rd Qu.:1.0000  3rd Qu.:0.010000
Max.   :6.0000  Max.   :0.050000

```

```

-----
internet_dataset$Continent: SA
  Bounces      Exits      Continent      Sourcegroup      Timeinpage      Uniquepageviews
Min.   :0.000000  Min.   :0.0000  Length:748  Length:748  Min.   : 0.00  Min.   :1.00
1st Qu.:0.000000  1st Qu.:1.0000  Class :character  Class :character  1st Qu.: 0.00  1st Qu.:1.00
Median :0.010000  Median :1.0000  Mode  :character  Mode  :character  Median : 0.00  Median :1.00
Mean   :0.007179  Mean   :0.9037                Mean   : 139.42  Mean   :1.11
3rd Qu.:0.010000  3rd Qu.:1.0000                3rd Qu.: 7.25  3rd Qu.:1.00
Max.   :0.050000  Max.   :5.0000                Max.   :46745.00 Max.   :5.00

  Visits      BouncesNew
Min.   :0.0000  Min.   :0.000000
1st Qu.:1.0000  1st Qu.:0.000000
Median :1.0000  Median :0.010000
Mean   :0.9037  Mean   :0.007179
3rd Qu.:1.0000  3rd Qu.:0.010000
Max.   :5.0000  Max.   :0.050000

```

> |

From the data above it is observed that the continent with the most unique page views, most visits, most bounces is North America although it does have the most exits. While the continent with the most time spent in page is SA. The continent with the least time spent on page is AF.

I then proceeded to group the data by the source group to obtain a detailed summary of the activities of each source group that uses the web site:

```
> by(internet_dataset,internet_dataset$Sourcegroup, summary)
```

```
internet_dataset$Sourcegroup: (direct)
```

Bounces		Exits	Continent	Sourcegroup	Timeinpage	Uniquepageviews
Min. :0.000000	Min. : 0.000	Length:7532	Length:7532	Min. : 0.00	Min. : 1.000	
1st Qu.:0.000000	1st Qu.: 1.000	Class :character	Class :character	1st Qu.: 0.00	1st Qu.: 1.000	
Median :0.010000	Median : 1.000	Mode :character	Mode :character	Median : 0.00	Median : 1.000	
Mean :0.008323	Mean : 1.017			Mean : 70.71	Mean : 1.226	
3rd Qu.:0.010000	3rd Qu.: 1.000			3rd Qu.: 6.00	3rd Qu.: 1.000	
Max. :0.300000	Max. :36.000			Max. :6062.00	Max. :45.000	

Visits		BouncesNew
Min. : 0.000	Min. :0.000000	
1st Qu.: 1.000	1st Qu.:0.000000	
Median : 1.000	Median :0.010000	
Mean : 1.017	Mean :0.008323	
3rd Qu.: 1.000	3rd Qu.:0.010000	
Max. :45.000	Max. :0.300000	

```
internet_dataset$Sourcegroup: facebook
```

Bounces		Exits	Continent	Sourcegroup	Timeinpage	Uniquepageviews
Min. :0.000000	Min. :0.000	Length:92	Length:92	Min. : 0.00	Min. :1.000	
1st Qu.:0.010000	1st Qu.:1.000	Class :character	Class :character	1st Qu.: 0.00	1st Qu.:1.000	
Median :0.010000	Median :1.000	Mode :character	Mode :character	Median : 0.00	Median :1.000	
Mean :0.00913	Mean :1.076			Mean : 57.21	Mean :1.109	
3rd Qu.:0.010000	3rd Qu.:1.000			3rd Qu.: 0.00	3rd Qu.:1.000	
Max. :0.020000	Max. :2.000			Max. :1195.00	Max. :2.000	

Visits		BouncesNew
Min. :0.000	Min. :0.000000	
1st Qu.:1.000	1st Qu.:0.010000	
Median :1.000	Median :0.010000	
Mean :1.076	Mean :0.00913	
3rd Qu.:1.000	3rd Qu.:0.010000	
Max. :2.000	Max. :0.020000	

```
internet_dataset$Sourcegroup: google
```

Bounces		Exits	Continent	Sourcegroup	Timeinpage	Uniquepageviews
Min. :0.000000	Min. :0.0000	Length:11542	Length:11542	Min. : 0.00	Min. :1.00	
1st Qu.:0.000000	1st Qu.:1.0000	Class :character	Class :character	1st Qu.: 0.00	1st Qu.:1.00	
Median :0.010000	Median :1.0000	Mode :character	Mode :character	Median : 0.00	Median :1.00	
Mean :0.007565	Mean :0.9392			Mean : 67.31	Mean :1.07	
3rd Qu.:0.010000	3rd Qu.:1.0000			3rd Qu.: 0.00	3rd Qu.:1.00	
Max. :0.050000	Max. :6.0000			Max. :46745.00	Max. :6.00	

Visits		BouncesNew
Min. :0.0000	Min. :0.000000	
1st Qu.:1.0000	1st Qu.:0.000000	
Median :1.0000	Median :0.010000	
Mean :0.9389	Mean :0.007565	
3rd Qu.:1.0000	3rd Qu.:0.010000	
Max. :6.0000	Max. :0.050000	

internet_dataset\$Sourcegroup: Others

Bounces		Exits	Continent	Sourcegroup	Timeinpage	Uniquepageviews		
Min.	:0.000000	Min.	:0.000	Length:5360	Min.	: 0.00	Min.	:1.000
1st Qu.	:0.000000	1st Qu.	:1.000	Class :character	1st Qu.:	0.00	1st Qu.	:1.000
Median	:0.010000	Median	:1.000	Mode :character	Median :	0.00	Median	:1.000
Mean	:0.006368	Mean	:0.833		Mean	: 70.38	Mean	:1.067
3rd Qu.	:0.010000	3rd Qu.	:1.000		3rd Qu.:	12.00	3rd Qu.	:1.000
Max.	:0.080000	Max.	:8.000		Max.	:4190.00	Max.	:8.000
Visits		BouncesNew						
Min.	:0.0000	Min.	:0.000000					
1st Qu.	:1.0000	1st Qu.	:0.000000					
Median	:1.0000	Median	:0.010000					
Mean	:0.8334	Mean	:0.006368					
3rd Qu.	:1.0000	3rd Qu.	:0.010000					
Max.	:8.0000	Max.	:0.080000					

internet_dataset\$Sourcegroup: public.tableausoftware.com

Bounces		Exits	Continent	Sourcegroup	Timeinpage	Uniquepageviews			
Min.	:0.000000	Min.	:0.0000	Length:1354	Length:1354	Min.	: 0.00	Min.	:1.000
1st Qu.:	0.000000	1st Qu.:	0.0000	Class :character	Class :character	1st Qu.:	0.00	1st Qu.:	1.000
Median :	0.000000	Median :	1.0000	Mode :character	Mode :character	Median :	12.00	Median :	1.000
Mean	:0.003331	Mean	:0.6477			Mean	: 134.32	Mean	:1.123
3rd Qu.:	0.010000	3rd Qu.:	1.0000			3rd Qu.:	72.75	3rd Qu.:	1.000
Max.	:0.030000	Max.	:4.0000			Max.	:4561.00	Max.	:6.000
Visits		BouncesNew							
Min.	:0.0000	Min.	:0.000000						
1st Qu.:	0.0000	1st Qu.:	0.000000						
Median :	1.0000	Median :	0.000000						
Mean	:0.6477	Mean	:0.003331						
3rd Qu.:	1.0000	3rd Qu.:	0.010000						
Max.	:6.0000	Max.	:0.030000						

internet_dataset\$Sourcegroup: reddit.com

Bounces		Exits		Continent	Sourcegroup	Timeinpage	Uniquepageviews
Min.	:0.000000	Min.	:0.0000	Length:616	Length:616	Min. : 0.0	Min. :1.000
1st Qu.:	0.007500	1st Qu.:	1.0000	Class :character	Class :character	1st Qu.: 0.0	1st Qu.:1.000
Median :	0.010000	Median :	1.0000	Mode :character	Mode :character	Median : 0.0	Median :1.000
Mean :	0.008036	Mean :	0.9432			Mean : 49.2	Mean :1.086
3rd Qu.:	0.010000	3rd Qu.:	1.0000			3rd Qu.: 0.0	3rd Qu.:1.000
Max. :	0.040000	Max. :	4.0000			Max. :2047.0	Max. :5.000
Visits		BouncesNew					
Min.	:0.0000	Min.	:0.000000				
1st Qu.:	1.0000	1st Qu.:	0.007500				
Median :	1.0000	Median :	0.010000				
Mean :	0.9432	Mean :	0.008036				
3rd Qu.:	1.0000	3rd Qu.:	0.010000				
Max. :	5.0000	Max. :	0.040000				

internet_dataset\$Sourcegroup: t.co

Bounces		Exits	Continent	Sourcegroup	Timeinpage	Uniquepageviews			
Min.	:0.000000	Min.	: 0.0000	Length:2249	Length:2249	Min.	: 0.00	Min.	: 1.000
1st Qu.:	:0.000000	1st Qu.:	: 1.0000	Class :character	Class :character	1st Qu.:	: 0.00	1st Qu.:	: 1.000
Median :	:0.010000	Median :	: 1.0000	Mode :character	Mode :character	Median :	: 0.00	Median :	: 1.000
Mean	:0.007661	Mean	: 0.9289			Mean	: 69.92	Mean	: 1.146
3rd Qu.:	:0.010000	3rd Qu.:	: 1.0000			3rd Qu.:	: 5.00	3rd Qu.:	: 1.000
Max.	:0.090000	Max.	:10.0000			Max.	:14108.00	Max.	:11.000
Visits		BouncesNew							
Min.	: 0.0000	Min.	:0.000000						
1st Qu.:	: 1.0000	1st Qu.:	:0.000000						
Median :	: 1.0000	Median :	:0.010000						
Mean	: 0.9289	Mean	:0.007661						
3rd Qu.:	: 1.0000	3rd Qu.:	:0.010000						
Max.	:11.0000	Max.	:0.090000						

internet_dataset\$Sourcegroup: tableausoftware.com

Bounces		Exits		Continent	Sourcegroup	Timeinpage	Uniquepageviews
Min.	:0.000000	Min.	:0.0000	Length:2388	Length:2388	Min. : 0.00	Min. :1.000
1st Qu.:	:0.000000	1st Qu.:	:0.0000	Class :character	Class :character	1st Qu.: 0.00	1st Qu.:1.000
Median :	:0.000000	Median :	:1.0000	Mode :character	Mode :character	Median : 0.00	Median :1.000
Mean	:0.005054	Mean	:0.7374			Mean : 90.85	Mean :1.072
3rd Qu.:	:0.010000	3rd Qu.:	:1.0000			3rd Qu.: 32.00	3rd Qu.:1.000
Max.	:0.040000	Max.	:4.0000			Max. :4707.00	Max. :5.000
Visits		BouncesNew					
Min.	:0.0000	Min.	:0.000000				
1st Qu.:	:0.0000	1st Qu.:	:0.000000				
Median :	:1.0000	Median :	:0.000000				
Mean	:0.7374	Mean	:0.005054				
3rd Qu.:	:1.0000	3rd Qu.:	:0.010000				
Max.	:5.0000	Max.	:0.040000				

internet_dataset\$Sourcegroup: visualisingdata.com

Bounces		Exits		Continent	Sourcegroup	Timeinpage	Uniquepageviews
Min.	:0.000000	Min.	:0.0000	Length:976	Length:976	Min. : 0.00	Min. :1.000
1st Qu.:	:0.000000	1st Qu.:	:0.0000	Class :character	Class :character	1st Qu.: 0.00	1st Qu.:1.000
Median :	:0.010000	Median :	:1.0000	Mode :character	Mode :character	Median : 0.00	Median :1.000
Mean	:0.005338	Mean	:0.7387			Mean : 73.27	Mean :1.078
3rd Qu.:	:0.010000	3rd Qu.:	:1.0000			3rd Qu.: 31.00	3rd Qu.:1.000
Max.	:0.030000	Max.	:3.0000			Max. :2954.00	Max. :5.000
Visits		BouncesNew					
Min.	:0.0000	Min.	:0.000000				
1st Qu.:	:0.0000	1st Qu.:	:0.000000				
Median :	:1.0000	Median :	:0.010000				
Mean	:0.7387	Mean	:0.005338				
3rd Qu.:	:1.0000	3rd Qu.:	:0.010000				
Max.	:5.0000	Max.	:0.030000				

By grouping the data by the source groups it is observed that that source group with the most unique page views, most exits, most visits is (direct) followed closely by t.co respectively. Facebook is the source group with the least amount of unique page views and visits. While the google source group is the one that has spent the most time on the website.

The direct source group is the one with the greatest number of bounces.

Analysis task 2

As mentioned earlier, a unique page view represents the number of sessions during which that page was viewed one or more times. A visit counts all instances, no matter how many times the same visitor may have been to your site. So the team needs to know whether the unique page view value depends on visits.

Using the correlation function we observed that there is a strong positive linear relationship between the unique page views and visits. Therefore the team can conclude that the unique page view value depends on visits.

```
> cor(internet_dataset$Uniquepageviews,internet_dataset$Visits)
[1] 0.8144457
```

Analysis task 3

Find out the probable factors from the dataset, which could affect the exits. Exit Page Analysis is usually required to get an idea about why a user leaves the website for a session and moves on to another one. Please keep in mind that exits should not be confused with bounces.

```
> anovaexits<-aov(Exits~.,data = internet_dataset)
> summary(anovaexits)
```

	Df	Sum Sq	Mean Sq	F value	Pr(>F)	
Bounces	1	10578	10578	1.043e+05	< 2e-16	***
Continent	5	3	1	5.960e+00	1.62e-05	***
Sourcegroup	8	7	1	8.760e+00	4.89e-12	***
Timeinpage	1	130	130	1.279e+03	< 2e-16	***
Uniquepageviews	1	1573	1573	1.552e+04	< 2e-16	***
Visits	1	1	1	5.014e+00	0.0251	*
Residuals	32091	3254	0			

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

As we have observed from the results of the analysis of variance above that the unique pageviews, source groups and bounces have more significance over exits. Therefore we can safely deduce that the exits are affected by the following factors:

- unique pageviews
- source groups
- bounces

Analysis task 4

Every site wants to increase the time on page for a visitor. This increases the chances of the visitor understanding the site content better and hence there are more chances of a transaction taking place. Find the variables which possibly have an effect on the time on page.

```
> anovatetime<-aov(Timeinpage~.,data = internet_dataset)
> summary(anovatetime)
```

	Df	Sum Sq	Mean Sq	F value	Pr(>F)	
Bounces	1	5.947e+07	59466495	422.868	< 2e-16	***
Exits	1	1.304e+08	130400662	927.283	< 2e-16	***
Continent	5	4.767e+06	953431	6.780	2.51e-06	***
Sourcegroup	8	1.545e+06	193153	1.374	0.202	
Uniquepageviews	1	1.791e+08	179133934	1273.826	< 2e-16	***
Visits	1	1.073e+08	107321113	763.163	< 2e-16	***
Residuals	32091	4.513e+09	140627			

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

From the analysis of variance results above we have observed and can safely conclude that the source group is the only variable that is not affecting the time spent in page due to the significantly low F value. However the other variables observed such as the bounces, exits ,continent, unique page view and visits greatly affect and influence the time spent in page.

Analysis task 5

A high bounce rate is a cause of alarm for websites which depend on visitor engagement. Help the team in determining the factors that are impacting the bounce.

```
> internet_dataset$Bounces=internet_dataset$Bounces*0.01
> model<-glm(Bounces~Timeinpage+Continent+Exits+Sourcegroup+Uniquepageviews+Visits,data = internet_dataset,family = "binomial")
Warning messages:
1: In eval(family$initialize) : non-integer #successes in a binomial glm!
2: glm.fit: fitted probabilities numerically 0 or 1 occurred
> summary(model)
```

```
Call:
glm(formula = Bounces ~ Timeinpage + Continent + Exits + Sourcegroup + Uniquepageviews + Visits, family = "binomial", data = internet_dataset)
```

```
Deviance Residuals:
    Min       1Q   Median       3Q      Max
-2.26149  -0.02406   0.00206   0.00895   1.81288
```

Coefficients:

	Estimate	Std. Error	z value	Pr(> z)	
(Intercept)	-4.9667681	0.6784678	-7.321	2.47e-13	***
Timeinpage	-0.0010294	0.0005774	-1.783	0.0746	.
ContinentAS	0.0022768	0.6932044	0.003	0.9974	
ContinentEU	-0.0069240	0.6786600	-0.010	0.9919	
ContinentN.America	0.0101334	0.6674188	0.015	0.9879	
ContinentOC	0.0201123	0.7333671	0.027	0.9781	
ContinentSA	0.0237507	0.7914250	0.030	0.9761	
Exits	1.3907608	0.3356504	4.143	3.42e-05	***
Sourcegroupfacebook	-0.0241949	1.1045171	-0.022	0.9825	
Sourcegroupgoogle	-0.0783631	0.1720157	-0.456	0.6487	
Sourcegroupothers	-0.0767919	0.2182692	-0.352	0.7250	
Sourcegrouppublic.tableausoftware.com	-0.2528285	0.4923123	-0.514	0.6076	
Sourcegroupreddit.com	-0.0092792	0.4709304	-0.020	0.9843	
Sourcegroupt.co	0.0148690	0.2760157	0.054	0.9570	
Sourcegrouptableausoftware.com	-0.1129305	0.3190762	-0.354	0.7234	
Sourcegroupvisualisingdata.com	-0.0822525	0.4614866	-0.178	0.8585	
Uniquepageviews	-3.2363108	0.5791664	-5.588	2.30e-08	***
Visits	2.1941121	0.5202216	4.218	2.47e-05	***

```
---
signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

(Dispersion parameter for binomial family taken to be 1)

```
Null deviance: 234.937 on 32108 degrees of freedom
Residual deviance: 96.514 on 32091 degrees of freedom
AIC: 506.56
```

Number of Fisher Scoring iterations: 11

We have observed from the above summary of the generalized linear regression model that the unique page views along with the visits are the two variables that are the contributing main factors toward the impact on the bounce.