

CHAPTER 5

DISCUSSIONS

5.1 Discussion on Results of Desktop Usage

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.411 ^a	.169	.125	.51415

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	4.041	4	1.010	3.821	.007 ^b
	Residual	19.826	75	.264		
	Total	23.867	79			

a. Dependent Variable: SWT

b. Predictors: (Constant), AtwT, LwT, ErwT, EfwT

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	3.654	.873		4.187	.000
	LwT	.178	.123	.154	1.452	.151
	EfwT	-.340	.108	-.334	-3.152	.002
	ErwT	.243	.109	.236	2.236	.028
	AtwT	.001	.095	.001	.006	.995

a. Dependent Variable: SWT

Table 5.1 Coefficient of Determination Desktop

Based on results obtained, the adjusted R Square is 0.125, which means that 12.5% satisfaction website explained by 4 independent variables, which are learnability website, efficiency website, error website and attractiveness website. While the rest of

87.5% is explained by other variables outside this research model. This indicates that there are more variables that need to be investigated to measure satisfaction in the context of online learning using Duolingo. The result of F value is 3.821 with significance of 0.007. Since the level of significance less than 0.05, the regression model can be used to measure respondent's satisfaction from 4 independent variables, there are learnability website, efficiency website, error website and attractiveness website. Learnability and Attractiveness website have significance value above 0.05, which mean they do not positively impact to satisfaction. While, Efficiency and error website have significance value lower than 0.05, which mean they are positively impact to satisfaction. Increase in efficiency and error website increase respondent's satisfaction by 0.243. Efficiency website has negative t value, because probably the respondents do not know how long they are going to finish the task or the process of it takes a long time.

5.2 Discussion on Results of Mobile Usage

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.425 ^a	.181	.137	.59495

a. Predictors: (Constant), AtmT, EfmT, ErmT, LmT

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	5.850	4	1.462	4.132	.004 ^b
	Residual	26.548	75	.354		
	Total	32.398	79			

a. Dependent Variable: SmT

b. Predictors: (Constant), AtmT, EfmT, ErmT, LmT

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	1.721	.795		2.164	.034
	LmT	.216	.116	.199	1.862	.067
	EfmT	-.121	.112	-.115	-1.081	.283
	ErmT	.184	.109	.180	1.689	.095
	AtmT	.296	.120	.265	2.475	.016

a. Dependent Variable: SmT

Table 5.2 Coefficient of Determination Mobile

Based on table above, the adjusted R Square is 0.137, which means that 13.7% satisfaction mobile app explained by 4 independent variables, which are learnability mobile, efficiency mobile, error mobile and attractiveness mobile. While the rest of 86.3% is explained by other variables outside this research model. This indicates that there are more variables that need to be investigated to measure satisfaction in the context of online learning using Duolingo. The result of F value is 4.132 with significance of 0.004. Since the level of significance less than 0.05, the regression model can be used to measure respondent's satisfaction from 4 independent variables, there are learnability mobile, efficiency mobile, error mobile and attractiveness mobile. Learnability, Efficiency and Error mobile have significance value above 0.05, which mean it does not positively impact to satisfaction. While attractiveness mobile has significance value lower than 0.05, which means it does positively impact to satisfaction. An increase in attractiveness mobile increase respondent's satisfaction by 0.296. Efficiency mobile has negative t value, because probably the respondents do not know how long they are going to finish the task or the process of it takes a long time.

5.3 Inferential Statistic

In this part, the inferential statistic will analyze hypothesis results into more details to answer research question that being written in chapter one

5.3.1 Inferential Statistic Desktop

Variables	R square	T	F	Sig.	Hypothesis	Results
Lw	0.012	0.985	0.970	0.328	Ho1	Accepted
					Ha1	Rejected
Efw	0.096	-2.877	8.275	0.016	Ho2	Rejected
					Ha2	Accepted
Erw	0.043	1.866	3.484	0.036	Ho3	Rejected
					Ha3	Accepted
Atw	0.011	0.175	0.035	0.851	Ho4	Accepted
					Ha4	Rejected

Table 5.3 Inferential Statistic Desktop

Based from above table, learnability website and attractive website significance is higher than 0.050. So, null hypothesis (Ho) is accepted and alternative hypothesis (Ha) is rejected. While, efficiency website and error website significance is less than 0.050. It means, null hypothesis (Ho) is rejected and alternative hypothesis (Ha) is rejected.

5.3.2 Inferential Statistic Mobile

Variables	R square	T	F	Sig.	Hypothesis	Results
Lm	0.071	2.438	5.944	0.086	Ho1 Ha1	Accepted Rejected
Efm	0.006	-0.667	0.445	0.506	Ho1 Ha1	Accepted Rejected
Erm	0.045	1.926	3.709	0.058	Ho1 Ha1	Accepted Rejected
Atm	0.093	2.824	7.975	0.006	Ho1 Ha1	Rejected Accepted

Table 5.4 Inferential Statistic Mobile

Based from above table, learnability mobile, efficiency mobile and error mobile significance is higher than 0.050. So, null hypothesis (Ho) is accepted and alternative hypothesis (Ha) is rejected. While, attractiveness mobile significance is less than 0.050. It means, null hypothesis (Ho) is rejected and alternative hypothesis (Ha) is rejected.

5.4 Discussion on Wordcloud

5.4.1 Duolingo Advantages in Desktop and Mobile

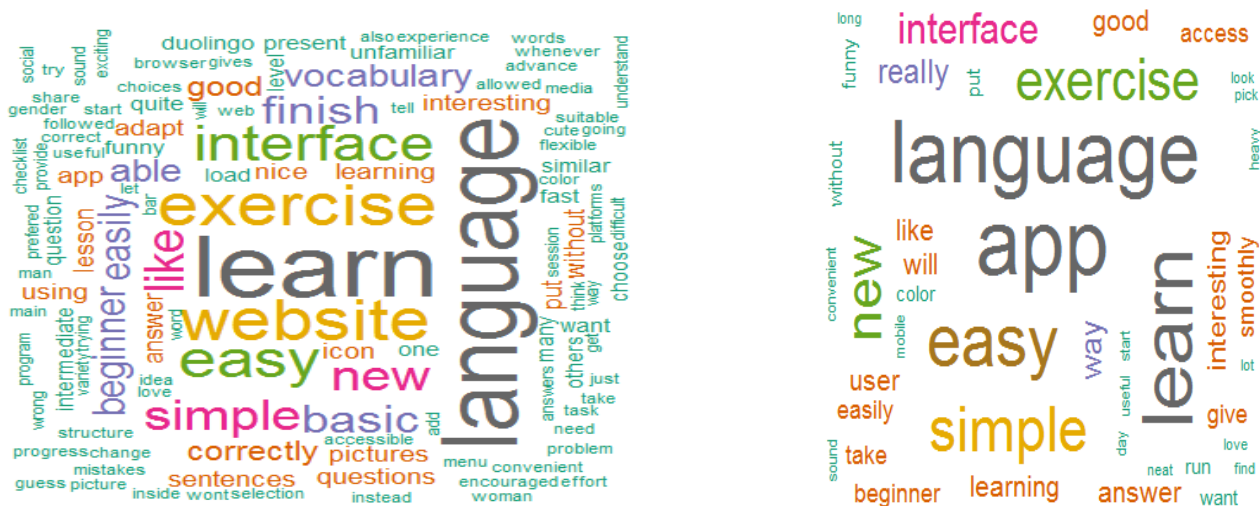


Figure 5.1 Duolingo Advantages in Desktop and Mobile

Duolingo website advantages are to learn language, good interface, able to easily use the website and exercise, there are funny and interesting picture or icon in the exercise, it is simple to use the website, there are variety of language to learn. Meanwhile, Duolingo mobile app advantages are easy to use app, simple to use the app, there are basic vocabulary, user friendly, very useful to beginner and learn new language.

5.4.2 Duolingo Limitation in Desktop and Mobile

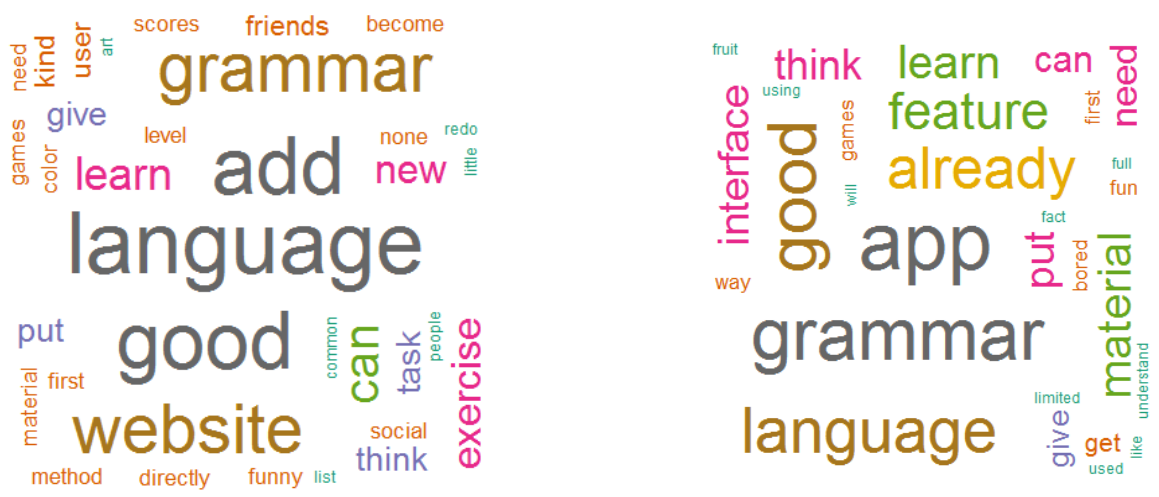


Figure 5.2 Duolingo Limitation in Desktop and Mobile

Duolingo website limitation are grammar, lack introduction to the language, lack of grammar structure and explanation, not all vocabulary are available, interface is too plain, there are only exercise. Meanwhile Duolingo mobile app limitation are lack of grammar, introduction to the language, lack of new feature there are no option to change the theme, feature to play with friends and games inside the app