# task3\_galaxy\_cor

Code →

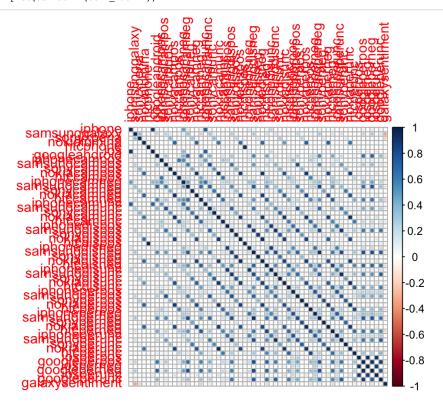
Hide

samsung <- read.csv("galaxy\_smallmatrix\_labeled\_9d.csv")</pre>

## **Correlation Matrix**

Hide

# correlation matrix
corr\_matrix <- cor(samsung)
corr\_plot <- corrplot(as.matrix(corr\_matrix))</pre>



Hide

corr\_plot

	inhone s	amsunggalaxy	sonyxperia	nokialumina	htcphone	
iphone				-0.0130113124	-	
samsunggalaxy		1.0000000000		-0.0061241775	0.0178484527	
sonyxperia	-0.012286712	0.3659270858	1.000000000	-0.0063682064	0.0236093137	
nokialumina	-0.013011312 -	0.0061241775	-0.006368206	1.0000000000	0.0006693785	
htcphone	-0.002861810	0.0178484527	0.023609314	0.0006693785	1.000000000	
ios	0.928171688 -	-0.0447752032	-0.023916621	-0.0028437199	-0.0050083453	
googleandroid			-0.018315293		0.0165054715	
iphonecampos		0.0302266793	0.004342369	0.0298490944	0.0069142178	
samsungcampos		0.2511875267	0.047772377	0.0093131738	0.0107830524	
sonycampos		0.1431586761		-0.0027457373	0.0102814297	
nokiacampos	-0.008197756 -			0.7004134278	0.0004621265	
htccampos		0.0647274234	0.015445636	0.0213055121	0.0231129614	
iphonecamneg		0.1265807721		0.0633581661	0.0141257805	
samsungcamneg		0.3431998318		0.0095239562	0.0200135867	
sonycamneg		0.0318343254		-0.0012347698	0.0049067382	
nokiacamneg	-0.008912908 -			0.7294325660	0.0049007302	
htccamneg		0.2233020453		0.0372938000	0.0367102562	
-		-0.0105756133		0.0372938000		
iphonecamunc					0.0011359968	
samsungcamunc		0.3150353606	0.054648136	0.0410932344	0.0155380786	
sonycamunc		0.1001951538		-0.0018820683	0.0096858313	
nokiacamunc		0.0056781558	-0.003983568	0.6341696475	0.0003617240	
htccamunc	0.023494448	0.0720148991	0.012459032	0.0361538036	0.0290703038	
iphonedispos	0.050588211 -	-0.0068241879	-0.018810355	0.0283753991	0.0002028401	
samsungdispos	0.056394183	0.2803930542	0.037290688	0.0415278643	0.0130572081	
sonydispos	-0.003914300	0.0581107226	0.248496900	-0.0014962654	0.0067801661	
nokiadispos		0.0102400922		0.6502512874	0.0003089029	
htcdispos		0.0245791320	0.002804346	0.0105571174	0.9776446710	
iphonedisneg		0.0180385513		0.0237839324	0.0027701572	
samsungdisneg		0.3046332430	0.007696009	0.0237839324	0.0027701372	
sonydisneg		0.0067830867		-0.0006470733	0.0030551775	
				0.6922661063		
nokiadisneg		0.0056266443			0.0003861785	
htcdisneg		0.1896615395		0.0443578021	0.0376156220	
iphonedisunc		-0.0279505858		0.0026849101		
samsungdisunc		0.1896978491	0.025438568	0.0468989567	0.0093780721	
sonydisunc		0.0589819631		-0.0013687069	0.0051684206	
nokiadisunc	-0.007329545	0.0146600770	-0.003242367	0.4913298135	-0.0000680297	
htcdisunc	0.022020409	0.0714041218	0.009337082	0.0211081991	0.0291445633	
iphoneperpos	-0.011451806 -	0.0029781969	-0.029083547	0.0335940854	0.0001384587	
samsungperpos	0.047500473	0.2425264791	0.019924925	0.0174552954	0.0096707944	
sonyperpos	-0.006343534	0.0652618116	0.263129425	-0.0019005140	0.0046710087	
nokiaperpos	-0.010160149	0.0018261992	-0.004619320	0.7374555536	0.0004517822	
htcperpos		0.0879891195	0.003950125	0.0391281410	0.0308198578	
iphoneperneg		0.0465117438		0.0338966995	0.0043108482	
samsungperneg		0.3038066396		0.0173346109	0.0174504265	
sonyperneg		0.0099727656		-0.0009524197	0.001/1301203	
		0.00035727050		0.7364514499	0.0011110431	
nokiaperneg		0.1786390850		0.0500551081	0.0004396347	
htcperneg						
iphoneperunc	-0.017262453 -			0.0203441781	0.0001981751	
samsungperunc		0.1838181677		0.0353135388		
sonyperunc		0.0322934086		-0.0011523967	0.0047509923	
nokiaperunc	-0.009382122			0.6484394494		
htcperunc		0.0443416350		0.0237591934		
iosperpos	-0.019640311 -			0.0306965276	-0.0029359293	
googleperpos	0.109452690	0.2462351542	-0.008498579	0.0064950782	0.0191795588	
iosperneg	-0.018673633 -	0.0079151306	-0.010359045	0.0326997768	-0.0027668594	
googleperneg	0.128753949	0.2912043221	-0.008603282	0.0006319213	0.0207186100	
iosperunc	-0.019994215 -	0.0154150726	-0.014845500	0.0528654693	-0.0026750279	
googleperunc		0.1423566132		0.0079866214		
galaxysentiment						
J J CONCINCITO				s samsungcampo		
iphone	0.9281716877		71 0.07629582		0 -0.00496286739	
ipnone samsunggalaxy	-0.0447752032				7 0.14315867610	
sonyxperia	-0.0239166212				7 0.39569856978	
nokialumina	-0.0028437199				4 -0.00274573730	
htcphone	-0.0050083453				2 0.01028142969	
ios		-0.0264574584			6 -0.00927756466	
accalcand~-; -	-0.0264574584				2 0.00006317932	
	0 0422606700	0.1046093469	9 1.00000000	0 0.06182531	5 0.04283928681	
	0.0422000790		0.06182531	5 1.00000000	0 0.13834099595	
iphonecampos	-0.0107193160	0.3160915919				
iphonecampos samsungcampos			0.04283928	7 0.13834099	6 1.00000000000	
iphonecampos samsungcampos sonycampos	-0.0107193160	0.0000631793			6 1.00000000000 1 -0.00182983548	
iphonecampos samsungcampos sonycampos nokiacampos	-0.0107193160 -0.0092775647 0.0054129748	0.0000631793 0.0032731478	0.03083916	0 0.01488045	1 -0.00182983548	
iphonecampos samsungcampos sonycampos nokiacampos htccampos	-0.0107193160 -0.0092775647 0.0054129748 -0.0123667236	0.0000631793 0.0032731478 0.1482688649	0.03083916 0.62398019	0 0.01488045 1 0.08919005	1 -0.00182983548 7 0.05558198748	
iphonecampos samsungcampos sonycampos nokiacampos htccampos iphonecamneg	-0.0107193160 -0.0092775647 0.0054129748 -0.0123667236 0.3879441309	0.0000631793 0.0032731478 0.1482688649 0.3927863900	0.03083916 0.62398019 0.54125533	0 0.01488045 1 0.08919005 8 0.20672703	1 -0.00182983548 7 0.05558198748 7 0.01408190503	
iphonecampos samsungcampos sonycampos nokiacampos htccampos iphonecamneg samsungcamneg	-0.0107193160 -0.0092775647 0.0054129748 -0.0123667236 0.3879441309 -0.0153334136	0.0000631793 0.0032731478 0.1482688649 0.3927863900 0.7118048411	0.03083916 0.62398019 0.54125533 0.11753549	0 0.01488045 1 0.08919005 8 0.20672703 8 0.60959515	1 -0.00182983548 7 0.05558198748 7 0.01408190503 2 0.03385279269	
iphonecampos samsungcampos sonycampos nokiacampos htccampos iphonecamneg samsungcamneg sonycamneg	-0.0107193160 -0.0092775647 0.0054129748 -0.0123667236 0.3879441309 -0.0153334136 -0.0038696843	0.0000631793 0.0032731478 0.1482688649 0.3927863900 0.7118048411 0.0135356245	81 0.03083916 93 0.62398019 07 0.54125533 0 0.11753549 05 0.02001033	0 0.01488045 1 0.08919005 8 0.20672703 8 0.60959515 6 0.05405180	1 -0.00182983548 7 0.05558198748 7 0.01408190503 2 0.03385279269 0 0.41879580177	
iphonecampos samsungcampos sonycampos nokiacampos htccampos iphonecamneg samsungcamneg sonycamneg nokiacamneg	-0.0107193160 -0.0092775647 0.0054129748 -0.0123667236 0.3879441309 -0.0153334136 -0.0038696843 0.0046379734	0.0000631793 0.0032731478 0.1482688649 0.3927863900 0.7118048411 0.0135356245 -0.0018390496	81 0.03083916 93 0.62398019 97 0.54125533 10 0.11753549 95 0.02001033 96 0.02687603	0 0.01488045 1 0.08919005 8 0.20672703 8 0.60959515 6 0.05405180 8 0.01438789	1 -0.00182983548 7 0.05558198748 7 0.01408190503 2 0.03385279269 0 0.41879580177 5 -0.00193166713	
googleandroid iphonecampos samsungcampos sonycampos nokiacampos htccampos iphonecamneg samsungcamneg sonycamneg nokiacamneg htccamneg	-0.0107193160 -0.0092775647 0.0054129748 -0.0123667236 0.3879441309 -0.0153334136 -0.0033696843 0.0046379734 -0.0230771581	0.0000631793 0.0032731478 0.1482688649 0.3927863900 0.7118048411 0.0135356245 -0.0018390496 0.5637608720	31 0.03083916 93 0.62398019 97 0.54125533 10 0.11753549 95 0.02001033 92 0.02687603 93 0.20642916	0 0.01488045 1 0.08919005 8 0.20672703 8 0.60959515 6 0.05405180 8 0.01438789 2 0.29619875	1 -0.00182983548 7 0.05558198748 7 0.01408190503 2 0.03385279269 0 0.41879580177 5 -0.00193166713 8 0.01415597724	
iphonecampos samsungcampos sonycampos nokiacampos htccampos iphonecamneg samsungcamneg sonycamneg nokiacamneg htccamneg iphonecamunc	-0.0107193160 -0.0092775647 0.0054129748 -0.0123667236 0.3879441309 -0.0153334136 -0.0038696843 0.0046379734 -0.0230771581 0.7334719301	0.0000631793 0.0032731478 0.1482688649 0.3927863900 0.71180484911 0.0135356245 -0.0018390496 0.5637608720	31 0.03083916 93 0.62398019 97 0.54125533 10 0.11753549 95 0.02001033 92 0.02687603 93 0.20642916 94 0.47286882	0 0.01488045 1 0.08919005 8 0.20672703 8 0.60959515 6 0.05405180 8 0.01438789 2 0.29619875 0 0.02829493	1 -0.00182983548 7 0.05558198748 7 0.01408190503 2 0.03385279269 0 0.41879580177 5 -0.00193166713 8 0.01415597724 1 0.01410885307	
iphonecampos samsungcampos sonycampos nokiacampos htccampos iphonecamneg samsungcamneg sonycamneg nokiacamneg htccamneg	-0.0107193160 -0.0092775647 0.0054129748 -0.0123667236 0.3879441309 -0.0153334136 -0.0033696843 0.0046379734 -0.0230771581	0.0000631793 0.0032731478 0.1482688649 0.3927863900 0.7118048411 0.0135356245 -0.0018390496 0.5637608720	31 0.03083916 93 0.62398019 97 0.54125533 10 0.11753549 95 0.02001033 92 0.02687603 93 0.20642916 94 0.47286882	0 0.01488045 1 0.08919005 8 0.20672703 8 0.60959515 6 0.05405180 8 0.01438789 2 0.29619875 0 0.02829493	1 -0.00182983548 7 0.05558198748 7 0.01408190503 2 0.03385279269 0 0.41879580177 5 -0.00193166713 8 0.01415597724 1 0.01410885307	

nokiacamunc	0.0063307321	0.00031293908	0.021294245	0.028358737 -0.00171756855
htccamunc	-0.0157678610	0.16644698470	0.321226556	0.102951218 0.05015380722
iphonedispos	0.0145420520	0.06721824906	0.272020461	0.038917295 0.01727240854
samsungdispos	-0.0098778268	0.31687580923	0.059768924	0.642717877 0.10167230390
sonydispos	0.0044375283	-0.00151981223	0.015963755	0.052294667 0.38943169484
nokiadispos	0.0030534968	-0.00418795084	0.026336481	0.038418859 -0.00163113778
htcdispos	-0.0057322511	0.05761226170	0.067175123	0.032484523 0.01468756161
iphonedisneg	0.1141228828	0.12216127846	0.148001721	0.065558511 0.00732317219
samsungdisneg	-0.0117585059	0.54273780319	0.089879970	0.488473853  0.06048954029
sonydisneg	0.0080601196	0.00020926082	0.002888922	0.011250718 0.13506274673
nokiadisneg		-0.00448499565	0.026326186	0.028490596 -0.00174683183
htcdisneg	-0.0197194142	0.44866812460	0.109666214	0.239485974 0.03889048697
iphonedisunc	0.2193721484	0.01789793831	0.187795121	0.012245921 0.00712782646
samsungdisunc	-0.0059543371	0.18906880944	0.035559365	0.389347062 0.08777735645
sonydisunc	0.0007068245	-0.00469661922	0.018572316	0.064983719 0.38582384071
nokiadisunc	0.0061020201	-0.00358934264	0.009618139	0.046869519 -0.00139798976
htcdisunc	-0.0126667514	0.14717794897	0.155843934	0.086244790 0.05358162726
	-0.0120007314	0.10703246927	0.348601360	0.056420038 0.00799717932
iphoneperpos				
samsungperpos	-0.0021359350	0.27056867335	0.044969832	0.794039192 0.04376105499
sonyperpos	-0.0039910529	0.00093898633	0.012722445	0.043407123 0.37906334751
nokiaperpos	0.0022453742	-0.00231585525	0.021195419	0.021609551 -0.00199168141
htcperpos	-0.0181567339	0.20966139871	0.286933372	0.114619592 0.01872501061
iphoneperneg	-0.0123985970	0.21367399559	0.150869485	0.113258841 0.00705961137
samsungperneg	-0.0072180940	0.55839778227	0.092098343	0.547344221 0.03511480120
sonyperneg	-0.0029145443	0.00565071770	0.007042108	0.019390524 0.18722697920
		-0.00324268666	0.007042108	0.019390524 0.18722697920
nokiaperneg				
htcperneg	-0.0216174139	0.43383761471	0.109208496	0.231575898 0.00946404653
iphoneperunc	-0.0152880123	0.05723249861	0.186508454	0.031457128 0.00552619408
samsungperunc	-0.0047350369	0.22210772796	0.039569012	0.486675117 0.04517427634
sonyperunc	-0.0046197382	-0.00395436618	0.017350460	0.049085877 0.35070860501
nokiaperunc	0.0050178442	-0.00142086333	0.014840600	0.033238831 -0.00183916564
htcperunc	-0.0119276203	0.10979058308	0.066921823	0.060374395 0.01164313740
iosperpos	0.1182938089	-0.01675980837	-0.003970216	0.102605291 -0.00301605503
googleperpos	-0.0164565338	0.63893900173	0.117983631	0.298652253 0.00698053603
iosperneg		-0.01588034433		0.075795130 -0.00276424901
googleperneg	-0.0180889501	0.71692059383	0.124442332	0.357807640 0.00881975358
iosperunc		-0.01643416324		0.044952554 -0.00640083552
googleperunc	-0.0102672660	0.37220105900	0.073053737	0.159368133 -0.00342297245
galaxysentiment	-0.0115277254	-0.18673325279	-0.031921433	-0.112302827 -0.07633659579
	nokiacampos	htccampos i	phonecamneg sa	amsungcamneg sonycamneg
iphone	nokiacampos -0.0081977557			amsungcamneg sonycamneg 0.132278137 -0.0019865130
_	-0.0081977557	0.020662226	phonecamneg sa	
samsunggalaxy	-0.0081977557 -0.0004208775	0.020662226 0.064727423	phonecamneg sa 0.486838671 0.126580772	0.132278137 -0.0019865130 0.343199832 0.0318343254
samsunggalaxy sonyxperia	-0.0081977557 -0.0004208775 -0.0042439494	0.020662226 0.064727423 0.015445636 -	phonecamneg sa 0.486838671 0.126580772 0.006595570	0.132278137 -0.0019865130 0.343199832 0.0318343254 -0.004337150 0.3457394341
samsunggalaxy sonyxperia nokialumina	-0.0081977557 -0.0004208775 -0.0042439494 0.7004134278	0.020662226 0.064727423 0.015445636 0.021305512	phonecamneg sa 0.486838671 0.126580772 0.006595570 - 0.063358166	0.132278137 -0.0019865130 0.343199832 0.0318343254 -0.004337150 0.3457394341 0.009523956 -0.0012347698
samsunggalaxy sonyxperia nokialumina htcphone	-0.0081977557 -0.0004208775 -0.0042439494 0.7004134278 0.0004621265	0.020662226 0.064727423 0.015445636 0.021305512 0.023112961	phonecamneg sa 0.486838671 0.126580772 0.006595570 - 0.063358166 0.014125781	0.132278137 -0.0019865130 0.343199832 0.0318343254 -0.004337150 0.3457394341 0.009523956 -0.0012347698 0.020013587 0.0049067382
samsunggalaxy sonyxperia nokialumina htcphone ios	-0.0081977557 -0.0004208775 -0.0042439494 0.7004134278 0.0004621265 0.0054129748	0.020662226 0.064727423 0.015445636 0.021305512 0.023112961 -0.012366724	phonecamneg sa 0.486838671 0.126580772 0.006595570 - 0.063358166 0.014125781 0.387944131 -	0.132278137 -0.0019865130 0.343199832 0.0318343254 -0.004337150 0.3457394341 0.009523956 -0.0012347698 0.020013587 0.0049067382 -0.015333414 -0.0038696843
samsunggalaxy sonyxperia nokialumina htcphone ios googleandroid	-0.0081977557 -0.0004208775 -0.0042439494 0.7004134278 0.0004621265 0.0054129748 0.0032731478	0.020662226 0.064727423 0.015445636 - 0.021305512 0.023112961 -0.012366724 0.148268865	chonecamneg sa 0.486838671 0.126580772 0.006595570 - 0.063358166 0.014125781 0.387944131 - 0.392786390	0.132278137 -0.0019865130 0.343199832 0.0318343254 -0.004337150 0.3457394341 0.009523956 -0.0012347698 0.020013587 0.0049067382 -0.015333414 -0.0038696843 0.711804841 0.0135356245
samsunggalaxy sonyxperia nokialumina htcphone ios	-0.0081977557 -0.0004208775 -0.0042439494 0.7004134278 0.0004621265 0.0054129748 0.0032731478 0.0308391601	0.020662226 0.064727423 0.015445636 0.021305512 0.023112961 -0.012366724 0.148268865 0.623980191	phonecamneg sa 0.486838671 0.126580772 0.006595570 - 0.063358166 0.014125781 0.387944131 - 0.392786390 0.541255338	0.132278137 -0.0019865130 0.343199832 0.0318343254 -0.004337150 0.3457394341 0.009523956 -0.0012347698 0.020013587 0.0049067382 -0.015333414 -0.0038696843 0.711804841 0.0135356245 0.117535498 0.0200103357
samsunggalaxy sonyxperia nokialumina htcphone ios googleandroid	-0.0081977557 -0.0004208775 -0.0042439494 0.7004134278 0.0004621265 0.0054129748 0.0032731478	0.020662226 0.064727423 0.015445636 0.021305512 0.023112961 -0.012366724 0.148268865 0.623980191	chonecamneg sa 0.486838671 0.126580772 0.006595570 - 0.063358166 0.014125781 0.387944131 - 0.392786390	0.132278137 -0.0019865130 0.343199832 0.0318343254 -0.004337150 0.3457394341 0.009523956 -0.0012347698 0.020013587 0.0049067382 -0.015333414 -0.0038696843 0.711804841 0.0135356245
samsunggalaxy sonyxperia nokialumina htcphone ios googleandroid iphonecampos	-0.0081977557 -0.0004208775 -0.0042439494 0.7004134278 0.0004621265 0.0054129748 0.0032731478 0.0308391601	0.020662226 0.064727423 0.015445636 0.021305512 0.023112961 0.012366724 0.148268865 0.623980191 0.089190057	phonecamneg sa 0.486838671 0.126580772 0.006595570 - 0.063358166 0.014125781 0.387944131 - 0.392786390 0.541255338	0.132278137 -0.0019865130 0.343199832 0.0318343254 -0.004337150 0.3457394341 0.009523956 -0.0012347698 0.020013587 0.0049067382 -0.015333414 -0.0038696843 0.711804841 0.0135356245 0.117535498 0.0200103357
samsunggalaxy sonyxperia nokialumina htcphone ios googleandroid iphonecampos samsungcampos	-0.0081977557 -0.0004208775 -0.0042439494 0.7004134278 0.0004621265 0.0054129748 0.0032731478 0.0308391601 0.0148804509	0.020662226 0.064727423 0.015445636 0.021305512 0.023112961 0.012366724 0.148268865 0.623980191 0.089190057 0.055581987	phonecamneg sa 0.486838671 0.126580772 0.006595570 - 0.063358166 0.014125781 0.387944131 - 0.392786390 0.541255338 0.206727037	0.132278137 -0.0019865130 0.343199832 0.0318343254 -0.004337150 0.3457394341 0.009523956 -0.0012347698 0.020013587 0.0049067382 -0.015333414 -0.0038696843 0.711804841 0.0135356245 0.117535498 0.0200103357 0.609595152 0.0540518003
samsunggalaxy sonyxperia nokialumina htcphone ios googleandroid iphonecampos samsungcampos sonycampos nokiacampos	-0.0081977557 -0.0004208775 -0.0042439494 0.7004134278 0.0004621265 0.0054129748 0.0032731478 0.0308391601 0.0148804509 -0.0018298355 1.00000000000	0.020662226 0.064727423 0.015445636 0.021305512 0.023112961 0.012366724 0.148268865 0.623980191 0.089190057 0.055581987 0.017769641	phonecamneg sa 0.486838671 0.126580772 0.006595570 - 0.063358166 0.014125781 0.387944131 - 0.392786390 0.541255338 0.206727037 0.014081905 0.053465026	0.132278137 -0.0019865130 0.343199832 0.0318343254 -0.004337150 0.3457394341 0.009523956 -0.0012347698 0.020013587 0.0049067382 -0.015333414 -0.0038696843 0.711804841 0.0135356245 0.117535498 0.0200103357 0.609595152 0.0540518003 0.033852793 0.4187958018 0.016032380 -0.0008228848
samsunggalaxy sonyxperia nokialumina htcphone ios googleandroid iphonecampos samsungcampos sonycampos	-0.0081977557 -0.0004208775 -0.0042439494 0.7004134278 0.0004621265 0.0054129748 0.0032731478 0.0308391601 0.0148804509 -0.0018298355	0.020662226 0.064727423 0.015445636 0.021305512 0.023112961 0.012366724 0.148268865 0.623980191 0.089190057 0.055581987 0.017769641 1.0000000000	phonecamneg sa 0.486838671 0.126580772 0.006595570 - 0.063358166 0.014125781 0.387944131 - 0.392786390 0.541255338 0.206727037 0.014081905	0.132278137 -0.0019865130 0.343199832 0.0318343254 -0.004337150 0.3457394341 0.009523956 -0.0012347698 0.020013587 0.0049067382 -0.015333414 -0.0038696843 0.711804841 0.0135356245 0.117535498 0.0200103357 0.609595152 0.0540518003 0.033852793 0.4187958018
samsunggalaxy sonyxperia nokialumina htcphone ios googleandroid iphonecampos samsungcampos sonycampos nokiacampos htccampos iphonecamneg	-0.0081977557 -0.0004208775 -0.0042439494 0.7004134278 0.0004621265 0.0054129748 0.0032731478 0.0308391601 0.0148804509 -0.0018298355 1.0000000000 0.0177696412 0.0534650264	0.020662226 0.064727423 0.015445636 0.021305512 0.023112961 0.012366724 0.148268865 0.623980191 0.089190057 0.055581987 0.017769641 1.000000000 0.206814560	phonecamneg sa 0.486838671 0.126580772 0.006595570 - 0.063358166 0.014125781 0.387944131 - 0.392786390 0.541255338 0.206727037 0.014081905 0.053465026 0.206814560 1.000000000	0.132278137 -0.0019865130 0.343199832 0.0318343254 -0.004337150 0.3457394341 0.009523956 -0.0012347698 0.020013587 0.0049067382 -0.015333414 -0.0038696843 0.711804841 0.0135356245 0.117535498 0.0200103357 0.609595152 0.0540518003 0.033852793 0.4187958018 0.016032380 -0.0008228848 0.171152386 0.0162038977 0.469362814 0.0657106556
samsunggalaxy sonyxperia nokialumina htcphone ios googleandroid iphonecampos samsungcampos sonycampos nokiacampos htccampos iphonecamneg samsungcamneg	-0.0081977557 -0.0004208775 -0.0042439494 0.7004134278 0.0004621265 0.0054129748 0.0032731478 0.0308391601 0.0148804509 -0.0018298355 1.0000000000 0.0177696412 0.0534650264 0.0160323804	0.020662226 0.064727423 0.015445636 0.021305512 0.023112961 0.012366724 0.148268865 0.623980191 0.089190057 0.055581987 0.017769641 1.000000000 0.206814560 0.171152386	phonecamneg sa 0.486838671 0.126580772 0.006595570 - 0.063358166 0.014125781 0.387944131 - 0.392786390 0.541255338 0.206727037 0.014081905 0.053465026 0.206814560 1.000000000 0.469362814	0.132278137 -0.0019865130 0.343199832 0.0318343254 -0.004337150 0.3457394341 0.009523956 -0.0012347698 0.020013587 0.0049067382 -0.015333414 -0.0038696843 0.711804841 0.0135356245 0.117535498 0.0200103357 0.609595152 0.0540518003 0.033852793 0.4187958018 0.016032380 -0.0008228848 0.171152386 0.0162038977 0.469362814 0.0657106556 1.0000000000 0.0723582129
samsunggalaxy sonyxperia nokialumina htcphone ios googleandroid iphonecampos samsungcampos sonycampos nokiacampos htccampos iphonecamneg samsungcamneg sonycamneg	-0.0081977557 -0.0004208775 -0.0042439494 0.7004134278 0.0004621265 0.0054129748 0.0032731478 0.0308391601 0.0148804509 -0.0018298355 1.0000000000 0.0177696412 0.0534650264 0.0160323804 -0.0008228848	0.020662226 0.064727423 0.015445636 0.021305512 0.023112961 0.012366724 0.148268865 0.623980191 0.089190057 0.055581987 0.017769641 1.000000000 0.206814560 0.171152386 0.016203898	phonecamneg sa 0.486838671 0.126580772 0.006595570 - 0.063358166 0.014125781 0.387944131 - 0.392786390 0.541255338 0.206727037 0.014081905 0.053465026 0.206814560 1.000000000 0.469362814 0.065710656	0.132278137     -0.0019865130       0.343199832     0.0318343254       -0.004337150     0.3457394341       0.009523956     -0.0012347698       0.020013587     0.0049067382       -0.015333414     -0.0038696843       0.711804841     0.0135356245       0.117535498     0.0200103357       0.609595152     0.0540518003       0.033852793     0.4187958018       0.016032380     -0.0008228848       0.171152386     0.0162038977       0.469362814     0.0657106556       1.000000000     0.0723582129       0.072358213     1.0000000000
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samsunggalaxy sonyxperia nokialumina htcphone ios googleandroid iphonecampos samsungcampos nokiacampos htccampos iphonecamneg samsungcamneg nokiacamneg htccamneg iphonecamunc samsungcamunc sonycamunc nokiacamunc htccamunc iphonedispos samsungdispos sonydispos nokiadispos htcdispos iphonedisneg samsungdisneg sonydisneg nokiadisneg htcdisneg iphonedisunc samsungdisunc sonydisunc nokiadisunc htcdisunc iphonedisunc samsungdisunc sonydisunc nokiadisunc htcdisunc iphoneperpos samsungperpos	-0.0081977557 -0.0004208775 -0.00042139494 0.7004134278 0.0004621265 0.0054129748 0.0032731478 0.0308391601 0.0148804509 -0.0018298355 1.00000000000 0.0177696412 0.0534650264 0.0160323804 -0.0008228848 0.9142716886 0.0305337980 0.0186388662 0.0582691439 -0.001254625 0.9402206401 0.0286030395 0.0292639996 0.0585080988 -0.0009971527 0.8708580895 0.0029269463 0.0336707906 -0.0004312276 0.9057322494 0.0359506128 0.0050196241 0.0649283619 -0.0009121443 0.7956704142 0.0163379550 0.0342884696 0.0357102240	0.020662226 0.064727423 0.015445636  0.023312961  0.012366724 0.148268865 0.623980191 0.089190057 0.055581987 0.017769641 1.00000000 0.206814560 0.171152386 0.016203898 0.015403161 0.450658200 0.163268790 0.112022472 0.033332634 0.014933099 0.656374073 0.129513283 0.082473970 0.019414697 0.014635993 0.140080137 0.040840392 0.131112951 0.003804589 0.016476933 0.270154321 0.0052940070 0.051488219 0.003804589 0.016476933 0.270154321 0.052940070 0.051488219 0.023850936 0.006693764 0.386183683 0.243836267 0.067464470	phonecamneg sa 0.486838671 0.126580772 0.006595570 0.063358166 0.014125781 0.387944131 0.392786390 0.541255338 0.206727037 0.014081905 0.206814560 0.0206814560 0.0206814560 0.0206814560 0.037533267 0.264308046 0.037533267 0.264308046 0.037533265 0.238058232 0.260710811 0.037333265 0.03533267 0.03533267 0.0353277 0.0345621229 0.350712637 0.009606492 0.053125765 0.373756444 0.298311398 0.117408443 0.036274014 0.018915629 0.117024569	0.132278137         -0.0019865130           0.343199832         0.0318343254           -0.004337150         0.3457394341           0.009523956         -0.0012347698           0.020013587         0.0049067382           -0.015333414         -0.0038696843           0.711804841         0.0135356245           0.117535498         0.0200103357           0.609595152         0.0540518003           0.033852793         0.4187958018           0.016032380         -0.0008228848           0.171152386         0.0162038977           0.469362814         0.0657106556           1.000000000         0.0723582129           0.072358213         1.000000000           0.015449928         -0.0008686790           0.661845110         0.0380460043           0.0515449928         -0.0008686790           0.661845110         0.0380460043           0.052345896         0.6195594283           0.031181849         -0.0007723979           0.200606311         0.0367314462           0.079504956         0.0248766905           0.546369299         0.1100933510           0.037847587         0.3401551094           0.042378926         -0.0007335296 <t< td=""></t<>
samsunggalaxy sonyxperia nokialumina htcphone ios googleandroid iphonecampos samsungcampos nokiacampos htccampos iphonecamneg samsungcamneg sonycamneg nokiacamneg htccamneg iphonecamunc samsungcamunc sonycamunc nokiacamunc htccamunc iphonedispos samsungdispos sonydispos nokiadispos htcdispos iphonedisneg samsungdisneg sonydisneg nokiadisneg htcdisneg iphonedisunc samsungdisunc sonydisunc nokiadisunc htcdisunc iphoneperpos samsungperpos sonyperpos	-0.0081977557 -0.0004208775 -0.0004208775 -0.0042439494 0.7004134278 0.0004621265 0.005412978 0.0038391601 0.0148804509 -0.0018298355 1.0000000000 0.0177696412 0.0534650264 0.0160323804 -0.00082288488 0.9142716886 0.0305337980 0.0186384662 0.0582691439 -0.0012542625 0.9402206401 0.0286030395 0.0292639996 0.0585080988 -0.0009971527 0.8708580895 0.00282069463 0.0336707906 -0.0004312276 0.9057322494 0.0359506128 0.0050196241 0.0649283619 -0.0009121443 0.7956704142 0.0163379550 0.0342884696 0.0257102240 -0.0012665552	0.020662226 0.064727423 0.015445636 -0 0.023112961 -0.012366724 0.148268865 0.623980191 0.089190057 0.055581987 0.017769641 1.000000000 0.206814560 0.171152386 0.016203898 0.015403161 0.450658200 0.163268790 0.112022472 0.033332634 0.014933099 0.656374073 0.129513283 0.082473970 0.014635993 0.140080137 0.040840392 0.131112951 0.003804589 0.016476933 0.270154321 0.052940070 0.051488219 0.023850366 0.006693764 0.386183683 0.243836267 0.067464470 0.011545140	phonecamneg sa 0.486838671 0.126580772 0.006595570 - 0.063358166 0.387944131 - 0.392786390 0.541255338 0.206727037 0.014081905 0.206814560 0.206814560 0.0206814560 0.070364043 0.507379531 0.645333267 0.264308046 0.035531900 0.037379531 0.643533267 0.264308046 0.035531900 0.037379531 0.016343262 0.050100515 0.055073277 0.345621229 0.350712637 0.345621229 0.350712637 0.09606492 0.053125765 0.373756444 0.298311398 0.117408443 0.018915629 0.160024569 0.255985078 0.172635000 0.018082126	0.132278137         -0.0019865130           0.343199832         0.0318343254           -0.004337150         0.3457394341           0.009523956         -0.0012347698           0.020013587         0.0049067382           -0.015333414         -0.0038696843           0.711804841         0.0135356245           0.117535498         0.0200103357           0.609595152         0.0540518003           0.033852793         0.4187958018           0.016032380         -0.0008228848           0.171152386         0.0162038977           0.469362814         0.0657106556           1.000000000         0.0723582129           0.072358213         1.000000000           0.015449928         -0.0008686790           0.661845110         0.0380460043           0.052345896         0.6195594283           0.031118149         -0.007723979           0.20606311         0.0367314462           0.079504956         0.0248766905           0.546369299         0.1100933510           0.037847587         0.3401151094           0.042378926         -0.0077335296           0.0565611461         0.0151512047           0.152305538         0.0400996898
samsunggalaxy sonyxperia nokialumina htcphone ios googleandroid iphonecampos samsungcampos nokiacampos htccampos iphonecamneg samsungcamneg nokiacamneg htccamneg iphonecamunc samsungcamunc sonycamunc nokiacamunc htccamunc iphonedispos samsungdispos sonydispos nokiadispos htcdispos iphonedisneg samsungdisneg sonydisneg nokiadisneg htcdisneg iphonedisunc samsungdisunc sonydisunc nokiadisunc htcdisunc iphonedisunc samsungdisunc sonydisunc nokiadisunc htcdisunc iphoneperpos samsungperpos	-0.0081977557 -0.0004208775 -0.00042139494 0.7004134278 0.0004621265 0.0054129748 0.0032731478 0.0308391601 0.0148804509 -0.0018298355 1.00000000000 0.0177696412 0.0534650264 0.0160323804 -0.0008228848 0.9142716886 0.0305337980 0.0186388662 0.0582691439 -0.001254625 0.9402206401 0.0286030395 0.0292639996 0.0585080988 -0.0009971527 0.8708580895 0.0029269463 0.0336707906 -0.0004312276 0.9057322494 0.0359506128 0.0050196241 0.0649283619 -0.0009121443 0.7956704142 0.0163379550 0.0342884696 0.0357102240	0.020662226 0.064727423 0.015445636 -0 0.023112961 -0.012366724 0.148268865 0.623980191 0.089190057 0.055581987 0.017769641 1.000000000 0.206814560 0.171152386 0.016203898 0.015403161 0.450658200 0.163268790 0.112022472 0.033332634 0.014933099 0.656374073 0.129513283 0.082473970 0.014635993 0.140080137 0.040840392 0.131112951 0.003804589 0.016476933 0.270154321 0.052940070 0.051488219 0.023850366 0.006693764 0.386183683 0.243836267 0.067464470 0.011545140	phonecamneg sa 0.486838671 0.126580772 0.006595570 0.063358166 0.014125781 0.387944131 0.392786390 0.541255338 0.206727037 0.014081905 0.206814560 0.0206814560 0.0206814560 0.0206814560 0.037533267 0.264308046 0.037533267 0.264308046 0.037533265 0.238058232 0.260710811 0.037333265 0.03533267 0.03533267 0.0353277 0.0345621229 0.350712637 0.009606492 0.053125765 0.373756444 0.298311398 0.117408443 0.036274014 0.018915629 0.117024569	0.132278137         -0.0019865130           0.343199832         0.0318343254           -0.004337150         0.3457394341           0.009523956         -0.0012347698           0.020013587         0.0049067382           -0.015333414         -0.0038696843           0.711804841         0.0135356245           0.117535498         0.0200103357           0.609595152         0.0540518003           0.033852793         0.4187958018           0.016032380         -0.0008228848           0.171152386         0.0162038977           0.469362814         0.0657106556           1.000000000         0.0723582129           0.072358213         1.000000000           0.015449928         -0.0008686790           0.661845110         0.0380460043           0.0515449928         -0.0008686790           0.661845110         0.0380460043           0.052345896         0.6195594283           0.031181849         -0.0007723979           0.200606311         0.0367314462           0.079504956         0.0248766905           0.546369299         0.1100933510           0.037847587         0.3401551094           0.042378926         -0.0007335296 <t< td=""></t<>

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iphoneperneg	0.0308754722	0.074613471	0.307061170	0.260478673	0.0448634452
samsungperneg	0.0261948975	0.133444763	0.362011315	0.825413224	0.0724121035
sonyperneg	-0.0006347189	0.003728334	0.020597393	0.025453573	0.4654207125
	0.8356076985	0.013680060	0.038323532		-0.0009138029
nokiaperneg					
htcperneg	0.0337776182	0.290115236	0.348278763	0.511819454	0.0281035690
iphoneperunc	0.0216900158	0.059597922	0.215941489	0.070284556	0.0268405586
samsungperunc	0.0493032042	0.057295111	0.139175768	0.389700324	0.0848666908
sonyperunc	-0.0007679891	0.014065561	0.033760898	0.062291749	0.6167570374
nokiaperunc	0.8582948157	0.010483100	0.026599467	0.036528548	-0.0008270806
htcperunc	0.0172626278	0.253226653	0.114628116	0.122074971	0.0262945924
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iosperpos		-0.006118699			-0.0012905333
googleperpos	0.0115514955	0.163213490	0.417894618	0.658628613	0.0208928764
iosperneg	0.1035281452	-0.005757988	-0.013643890	0.081247537	-0.0011789952
googleperneg	0.0039264212	0.177305240	0.468872064	0.794271854	0.0251141558
iosperunc	0.1651775918	-0.006076035	-0.010745550	0.046995569	-0.0028784831
googleperunc	0.0125098136	0.100072177	0.241410234	0.342103059	-0.0015393253
galaxysentiment					-0.0096129035
garaxysenciment					
	nokiacamneg	-	iphonecamunc	-	sonycamunc
iphone	-0.0089129081	0.096622616	0.753152812	0.06803260	-0.0033128854
samsunggalaxy	-0.0010016290	0.223302045	-0.010575613	0.31503536	0.1001951538
sonyxperia	-0.0044801282	-0.012283129	-0.008327405	0.05464814	0.3756160524
nokialumina	0.7294325660	0.037293800	0.016233347	0.04109323	-0.0018820683
htcphone	0.0001884590	0.036710256	0.001135997	0.01553808	0.0096858313
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ios		-0.023077158	0.733471930		-0.0063099185
googleandroid	-0.0018390496	0.563760872	0.043022274		-0.0064581819
iphonecampos	0.0268760382	0.206429162	0.472868820	0.07598554	0.0267134605
samsungcampos	0.0143878948	0.296198758	0.028294931	0.81460464	0.0901614198
sonycampos	-0.0019316671	0.014155977	0.014108853	0.14941578	0.5041063856
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htccampos	0.0154031615	0.450658200	0.163268790	0.11202247	0.0333326335
iphonecamneg	0.0703640435	0.507379531	0.643533267	0.26430805	0.0355318999
samsungcamneg	0.0154499281	0.661845110	0.061626704	0.70657361	0.0523458964
sonycamneg	-0.0008686790	0.038046004	0.025065974	0.12911931	0.6195594283
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_	0.0159004167	0.112019364	1.000000000	0.05527974	0.0457067259
iphonecamunc					
samsungcamunc	0.0568096287	0.376390343	0.055279740	1.00000000	0.2763878776
sonycamunc	-0.0013240631	0.025726255	0.045706726	0.27638788	1.0000000000
nokiacamunc	0.8435272841	0.027367226	0.013593224	0.10593431	-0.0011773091
htccamunc	0.0265322711	0.661600909	0.171512337	0.17645637	0.1031496443
iphonedispos	0.0276996595	0.097655204	0.208010744	0.06662639	0.0233714593
samsungdispos	0.0570696002	0.287359415	0.037677115	0.72651372	0.1168929288
sonydispos	-0.0010526450	0.021090131	0.010692323	0.09964021	0.4286878754
nokiadispos	0.8112272983	0.025747972	0.015626051	0.14150373	-0.0011180650
htcdispos	0.0078565829	0.134664817	0.023134483	0.05230150	0.0169418630
iphonedisneg	0.0224197822	0.150847009	0.252535247	0.09952661	0.0252735063
samsungdisneg	0.0327406849	0.495843175	0.055072479	0.63675418	0.1004827125
	-0.0004552257	0.009032554	0.003639320	0.03103056	0.2454089599
sonydisneg					
nokiadisneg	0.8693024807		0.016148956		-0.0011973676
htcdisneg	0.0347375365	0.728174027	0.079731791	0.35077187	0.0647763162
iphonedisunc	0.0045242611	0.044440007	0.360715941	0.03971173	0.0310306676
samsungdisunc	0.0634146202	0.168834221	0.032526885	0.55133034	0.1589722461
sonydisunc	-0.0009629057	0.037791326	0.029373239	0.19501211	0.7244443648
nokiadisunc	0.7211239215	0.011918755	0.005717685		-0.0009582535
htcdisunc	0.0146463503	0.474574337	0.085783093		0.1073498560
				0.18802277	
iphoneperpos	0.0314806417	0.161081445	0.188991734	0.09464301	0.0178586165
samsungperpos	0.0249976092	0.247191782	0.027182576	0.77002761	0.0550258992
sonyperpos	-0.0013370399	0.012444880	0.008284567	0.08947057	0.3865275071
nokiaperpos	0.8228796729	0.022950647	0.011469184	0.08269580	-0.0013652000
htcperpos	0.0238762940	0.550520059	0.091857322	0.17828345	0.0266339486
iphoneperneg	0.0327655024	0.247144175	0.111406373	0.16640430	0.0159134207
samsungperneg	0.0254232144	0.510198709	0.055077108	0.68707277	0.0522990421
sonyperneg	-0.0006700415	0.008815092	0.004863074	0.04613737	0.2128897766
nokiaperneg	0.8322049716	0.025549432	0.009968588		-0.0013928422
htcperneg	0.0318817289	0.756238655	0.070405135	0.32810967	0.0194387547
iphoneperunc	0.0189450995	0.100213759	0.173075423	0.07450152	0.0251337436
samsungperunc	0.0481234009	0.198978258	0.033407544	0.60162206	0.0782549244
sonyperunc	-0.0008107283	0.030471304	0.023247994	0.13836230	0.5465862762
nokiaperunc	0.7889261781	0.019536278	0.009045451		-0.0012606579
htcperunc	0.0162355042	0.425499338	0.057106935	0.12321338	0.0280088185
iosperpos		-0.010969479			-0.0007133983
googleperpos	0.0027050397	0.579045749	0.076935372		-0.0037606539
iosperneg		-0.009910567			-0.0005757804
googleperneg	-0.0004601931	0.653460834	0.074874657	0.47855150	-0.0041336943
iosperunc	0.1436642579	-0.010224976	-0.001368279	0.05786789	-0.0043874590
googleperunc	0.0037635740	0.334138609	0.058156494		-0.0023462799
galaxysentiment					-0.0478723363
J	nokiacamunc	htccamunc		samsungdispos	
iphone	-0.0083312132	0.023494448	0.0505882110		3 -0.0039143004
			-0.0068241879		
samsunggalaxy	0.0056781558	0.0/2014899	-0.00002418/9	0.28039305	. 0.030110/270

sonyxperia	-0.0039835679		-0.0188103547	0.037290688	0.2484969002
nokialumina	0.6341696475	0.036153804	0.0283753991		-0.0014962654
htcphone	0.0003617240	0.029070304	0.0002028401	0.013057208	0.0067801661
ios	0.0063307321	-0.015767861	0.0145420520	-0.009877827	0.0044375283
googleandroid	0.0003129391	0.166446985	0.0672182491	0.316875809	-0.0015198122
iphonecampos	0.0212942445	0.321226556	0.2720204611	0.059768924	0.0159637550
samsungcampos	0.0283587373	0.102951218	0.0389172948	0.642717877	0.0522946669
sonycampos	-0.0017175686	0.050153807	0.0172724085	0.101672304	0.3894316948
nokiacampos	0.9402206401	0.028603040	0.0292639996	0.058508099	-0.0009971527
htccampos	0.0149330987	0.656374073	0.1295132834	0.082473970	0.0194146971
iphonecamneg	0.0373332652	0.238058232	0.2607108113	0.201183693	0.0163432624
samsungcamneg	0.0311181486	0.200606311	0.0795049564	0.546369299	0.0378475866
sonycamneg	-0.0007723979	0.036731446	0.0248766905	0.110093351	0.3401151094
nokiacamneg	0.8435272841	0.026532271	0.0276996595	0.057069600	-0.0010526450
htccamneg	0.0273672255	0.661600909	0.0976552035	0.287359415	0.0210901306
iphonecamunc	0.0135932243	0.171512337	0.2080107437	0.037677115	0.0106923233
samsungcamunc	0.1059343121	0.176456371	0.0666263906	0.726513724	0.0996402101
sonycamunc	-0.0011773091	0.103149644	0.0233714593	0.116892929	0.4286878754
nokiacamunc	1.0000000000	0.025896286	0.0191911706	0.106074497	-0.0009359739
htccamunc	0.0258962857	1.000000000	0.0933297026	0.121772842	0.0334978533
iphonedispos	0.0191911706	0.093329703	1.0000000000	0.150154354	0.0221560903
samsungdispos	0.1060744967	0.121772842	0.1501543543	1.000000000	0.0955839192
sonydispos	-0.0009359739	0.033497853	0.0221560903	0.095583919	1.0000000000
nokiadispos	0.8836452392	0.024538115	0.0345644301		-0.0008888742
htcdispos	0.0077414440	0.143998293	0.0417866925	0.099655389	0.0146802595
iphonedisneg	0.0077414440	0.143998293	0.8687203575	0.166162485	0.0158660097
samsungdisneg	0.0621591287	0.177323745	0.1638447333	0.866088667	0.0751282022
samsungaisneg	-0.0004047702	0.177323743	0.1638447333	0.027231341	0.9049535130
nokiadisneg	0.9041127077	0.009781760	0.0049692653		-0.0009519206
htcdisneg	0.9041127077	0.489988487	0.1633025503	0.535677412	0.0537794451
iphonedisunc	0.0330918882	0.058952985	0.8829397616	0.130076004	0.0125436654
-		0.103153856			0.0123436634
samsungdisunc	0.1168141857	0.103153856	0.1612480310 0.0266302657	0.910435918 0.123617178	
sonydisunc	-0.0008561810				0.7733231222
nokiadisunc	0.9121139598	0.011904286	0.0095849876		-0.0007618222
htcdisunc	0.0148370384	0.605571862	0.1717374968	0.460810983	0.0562511116
iphoneperpos	0.0224036834	0.158034630	0.6598213992	0.175827820	0.0094872194
samsungperpos	0.0474894882	0.096468857	0.0926357100	0.816473809	0.0371239009
sonyperpos	-0.0011888475	0.023473868	0.0106629843	0.071009730	0.4973628888
nokiaperpos	0.9027649409	0.024847326	0.0248844725		-0.0010853492
htcperpos	0.0264101724	0.652164693	0.1249603201	0.276248640	0.0181760550
iphoneperneg	0.0217581298	0.109169341	0.6375493932	0.238807046	0.0061659170
samsungperneg	0.0488820103	0.174449277	0.1423401265	0.809389758	0.0373592535
sonyperneg	-0.0005957766	0.009458497	0.0047567776	0.038822264	0.1698345260
nokiaperneg	0.8633791724	0.026946936	0.0190064479		-0.0011073251
htcperneg	0.0344256397	0.559545613	0.1237313812	0.435979515	0.0168009689
iphoneperunc	0.0167172043	0.113378069	0.6652942280	0.208869767	0.0122575802
samsungperunc	0.0890332768	0.106729580	0.1573071850	0.898205400	0.0490246723
sonyperunc	-0.0007208702	0.044407034	0.0256367561	0.101960639	0.3239207897
nokiaperunc	0.9581518990	0.018817718	0.0124100206	0.123794596	-0.0010022371
htcperunc	0.0159507593	0.601226027	0.0916188457	0.284563203	0.0168874444
iosperpos		-0.007871624	0.0202918289	0.118313120	0.0257158843
googleperpos	0.0058969910	0.223489645	0.1658831441	0.607459314	0.0002494674
iosperneg	0.1088867920	-0.007106829	0.0153425532	0.092176497	0.0251462086
googleperneg	0.0012853540	0.227765877	0.1473005875	0.580912784	0.0018226190
iosperunc		-0.005189358	0.0248339180		-0.0034880789
googleperunc	0.0068209492	0.162562910	0.1800083584		-0.0018653187
galaxysentiment			0.0091457815		-0.0346666196
	nokiadispos			samsungdisneg	sonydisneg
iphone	-0.0079426985				-0.0027416538
samsunggalaxy	0.0102400922	0.0245791320		0.304633243	0.0067830867
sonyxperia	-0.0037831085		-0.013498805	0.007696009	0.1634946971
nokialumina	0.6502512874	0.0105571174			-0.0006470733
htcphone	0.0003089029	0.9776446710		0.020147311	0.0030551775
ios		-0.0057322511		-0.011758506	0.0080601196
googleandroid	-0.0041879508	0.0576122617		0.542737803	0.0002092608
iphonecampos	0.0263364813	0.0671751226		0.089879970	0.0028889218
samsungcampos	0.0384188592	0.0324845227		0.488473853	0.0112507183
sonycampos	-0.0016311378	0.0146875616		0.060489540	0.1350627467
nokiacampos	0.8708580895	0.0088510422	0.022206946	0.033670791	-0.0004312276
htccampos	0.0146359935	0.1400801368	0.040840392	0.131112951	0.0038045889
iphonecamneg	0.0501005147	0.0550732766	0.345621229	0.350712637	0.0096064924
samsungcamneg	0.0423789265	0.0656114607	0.152305538	0.755760618	0.0148729846
sonycamneg	-0.0007335296	0.0151512047	0.040099690	0.119963723	0.1773789703
nokiacamneg	0.8112272983				-0.0004552257
htccamneg	0.0257479718	0.1346648165		0.495843175	0.0090325537
iphonecamunc	0.0156260511	0.0231344835		0.055072479	0.0036393199
samsungcamunc	0.1415037274	0.0523014989		0.636754182	0.0310305595
sonycamunc	-0.0011180650	0.0169418630		0.100482713	0.2454089599
nokiacamunc	0.8836452392	0.0077414440			-0.0004047702
htccamunc	0.0245381147	0.1439982926		0.177323745	0.0097817604
iphonedispos	0.0345644301	0.0417866925		0.163844733	0.0049692653

samsungdispos					
Dambangarbbob	0.1415697210	0.0996553893	0.166162485	0.866088667	0.0272313405
sonydispos	-0.0008888742	0.0146802595	0.015866010	0.075128202	0.9049535130
nokiadispos	1.0000000000	0.0075969626	0.026097563	0.083419681	-0.0003844015
htcdispos	0.0075969626	1.0000000000	0.034490470	0.117029570	0.0041269843
_					
iphonedisneg	0.0260975626	0.0344904699	1.000000000	0.215665731	0.0086797066
samsungdisneg	0.0834196812	0.1170295695	0.215665731	1.000000000	0.0324941258
sonydisneg	-0.0003844015	0.0041269843	0.008679707	0.032494126	1.0000000000
nokiadisneg	0.9642123936	0.0087095722	0.027531740	0.062472312	-0.0004116665
htcdisneg	0.0314364879	0.1798997375	0.221940433	0.697898046	0.0252631290
iphonedisunc	0.0055715471	0.0309311024	0.880107029	0.136803936	0.0048145195
_					
samsungdisunc	0.1555311790	0.1088577706	0.170959680	0.818247846	0.0311096025
sonydisunc	-0.0008130966	0.0190947646	0.030665449	0.123329028	0.6599804741
nokiadisunc	0.8846578244	0.0034879421	0.007275724	0.101096560	-0.0003294568
htcdisunc	0.0140427807	0.2016022034	0.158704927	0.501048877	0.0200944942
iphoneperpos	0.0377035865	0.0538986647	0.531155368	0.216716089	0.0014775734
samsungperpos	0.0637431699	0.0645491006	0.116801822	0.707746945	0.0121260016
	-0.0011290228	0.0081525224	0.008244496	0.064359388	0.3716386733
sonyperpos					
nokiaperpos	0.8594811452	0.0070527199	0.018691989		-0.0004693689
htcperpos	0.0239256466	0.1706297590	0.100317942	0.346699403	0.0055878482
iphoneperneg	0.0314458957	0.0469248167	0.641028889	0.321181910	0.0027542115
samsungperneg	0.0658140036	0.0999785396	0.195684738	0.939464843	0.0142037560
sonyperneg	-0.0005657962	0.0041439935	0.007243647	0.040929988	0.1075166295
nokiaperneg	0.7603511068	0.0075120141	0.015345518		-0.0004788726
htcperneg	0.0306008837	0.1552886794	0.173327375	0.592968340	0.0071135699
iphoneperunc	0.0183932842	0.0454154450	0.570373895	0.226002429	0.0035695974
samsungperunc	0.1186802557	0.1053296978	0.171119626	0.818185987	0.0194084971
sonyperunc	-0.0006845949	0.0137490830	0.024816669	0.111377724	0.1150247030
nokiaperunc	0.8366996643	0.0053188881	0.009742431	0.072658175	-0.0004334264
htcperunc	0.0144910357	0.1351996062	0.096483023	0.317149341	0.0066833268
		-0.0011432307	0.096483023	0.104462373	0.0302663054
iosperpos					
googleperpos	-0.0024386792	0.1183631135	0.218866627	0.808745416	0.0005733788
iosperneg	0.0793938417	-0.0010090250	0.016907430	0.081901288	0.0295252822
googleperneg	-0.0026805855	0.1092615661	0.213962231	0.826596542	0.0018997752
iosperunc	0.1272536659	0.0005828749	0.018268838	0.050685902	-0.0015084508
googleperunc	-0.0015214970	0.1240397587	0.204713023	0.735521750	-0.0008066737
galaxysentiment					-0.0198827750
garaxysenciment					
	nokiadisneg	_	-	samsungdisunc	sonydisunc
iphone	-0.0085114241	0.0788325543	0.250368664		-0.0045575542
samsunggalaxy	0.0056266443		-0.027950586	0.189697849	0.0589819631
sonyxperia	-0.0040514384	-0.0020791636	-0.018136040	0.025438568	0.2933554885
nokialumina	0.6922661063	0.0443578021	0.002684910	0.046898957	-0.0013687069
htcphone	0.0003861785	0.0376156220	-0.002111780	0.009378072	0.0051684206
ios	0.0034198230	-0.0197194142	0.219372148	-0.005954337	0.0007068245
googleandroid	-0.0044849956	0.4486681246	0.017897938	0.189068809	-0.0046966192
iphonecampos	0.0263261858	0.1096662143	0.187795121	0.035559365	0.0185723164
samsungcampos	0.0284905963	0.2394859740	0.012245921	0.389347062	0.0649837193
sonycampos	-0.0017468318	0.0388904870	0.007127826	0.087777356	0.3858238407
nokiacampos	0.9057322494	0.0359506128	0.007127626		-0.0009121443
-					
htccampos	0.0164769330	0.2701543215	0.052940070	0.051488219	0.0238509364
iphonecamneg			0.298311398	0.117408443	
	0.0531257650	0.3737564440			0.0362740143
samsungcamneg	0.0531257650	0.3/3/564440	0.028940257	0.331788256	0.0634884660
samsungcamneg sonycamneg					
	0.0312560558	0.5229471998	0.028940257	0.331788256 0.124716693	0.0634884660
sonycamneg nokiacamneg	0.0312560558 -0.0007855577 0.8693024807	0.5229471998 0.0829721860 0.0347375365	0.028940257 0.027165015 0.004524261	0.331788256 0.124716693 0.063414620	0.0634884660 0.5790540898 -0.0009629057
sonycamneg nokiacamneg htccamneg	0.0312560558 -0.0007855577 0.8693024807 0.0314907315	0.5229471998 0.0829721860 0.0347375365 0.7281740266	0.028940257 0.027165015 0.004524261 0.044440007	0.331788256 0.124716693 0.063414620 0.168834221	0.0634884660 0.5790540898 -0.0009629057 0.0377913258
sonycamneg nokiacamneg htccamneg iphonecamunc	0.0312560558 -0.0007855577 0.8693024807 0.0314907315 0.0161489558	0.5229471998 0.0829721860 0.0347375365 0.7281740266 0.0797317910	0.028940257 0.027165015 0.004524261 0.044440007 0.360715941	0.331788256 0.124716693 0.063414620 0.168834221 0.032526885	0.0634884660 0.5790540898 -0.0009629057 0.0377913258 0.0293732389
sonycamneg nokiacamneg htccamneg iphonecamunc samsungcamunc	0.0312560558 -0.0007855577 0.8693024807 0.0314907315 0.0161489558 0.1064883513	0.5229471998 0.0829721860 0.0347375365 0.7281740266 0.0797317910 0.3507718687	0.028940257 0.027165015 0.004524261 0.044440007 0.360715941 0.039711728	0.331788256 0.124716693 0.063414620 0.168834221 0.032526885 0.551330344	0.0634884660 0.5790540898 -0.0009629057 0.0377913258 0.0293732389 0.1950121112
sonycamneg nokiacamneg htccamneg iphonecamunc samsungcamunc sonycamunc	0.0312560558 -0.0007855577 0.8693024807 0.0314907315 0.0161489558 0.1064883513 -0.0011973676	0.5229471998 0.0829721860 0.0347375365 0.7281740266 0.0797317910 0.3507718687 0.0647763162	0.028940257 0.027165015 0.004524261 0.044440007 0.360715941 0.039711728 0.031030668	0.331788256 0.124716693 0.063414620 0.168834221 0.032526885 0.551330344 0.158972246	0.0634884660 0.5790540898 -0.0009629057 0.0377913258 0.0293732389 0.1950121112 0.7244443648
sonycamneg nokiacamneg htccamneg iphonecamunc samsungcamunc sonycamunc nokiacamunc	0.0312560558 -0.0007855577 0.8693024807 0.0314907315 0.0161489558 0.1064883513 -0.0011973676 0.9041127077	0.5229471998 0.0829721860 0.0347375365 0.7281740266 0.0797317910 0.3507718687 0.0647763162 0.0330918882	0.028940257 0.027165015 0.004524261 0.044440007 0.360715941 0.039711728 0.031030668 0.003414087	0.331788256 0.124716693 0.063414620 0.168834221 0.032526885 0.551330344 0.158972246 0.116814186	0.0634884660 0.5790540898 -0.0009629057 0.0377913258 0.0293732389 0.1950121112 0.7244443648 -0.0008561810
sonycamneg nokiacamneg htccamneg iphonecamunc samsungcamunc sonycamunc	0.0312560558 -0.0007855577 0.8693024807 0.0314907315 0.0161489558 0.1064883513 -0.0011973676	0.5229471998 0.0829721860 0.0347375365 0.7281740266 0.0797317910 0.3507718687 0.0647763162 0.0330918882 0.4899884870	0.028940257 0.027165015 0.004524261 0.044440007 0.360715941 0.039711728 0.031030668 0.003414087 0.058952985	0.331788256 0.124716693 0.063414620 0.168834221 0.032526885 0.551330344 0.158972246	0.0634884660 0.5790540898 -0.0009629057 0.0377913258 0.0293732389 0.1950121112 0.7244443648
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sonycamneg nokiacamneg htccamneg iphonecamunc samsungcamunc sonycamunc nokiacamunc iphonedispos samsungdispos sonydispos nokiadispos htcdispos iphonedisneg samsungdisneg sonydisneg nokiadisneg htcdisneg iphonedisunc samsungdisunc sonydisunc nokiadisunc htcdisunc iphoneperpos samsungperpos sonyperpos nokiaperpos htcperpos	0.0312560558 -0.0007855577 0.8693024807 0.0314907315 0.0161489558 0.1064883513 -0.0011973676 0.9041127077 0.0289945827 0.0339761430 0.1066329775 -0.0009519206 0.9642123936 0.0087095722 0.0275317395 0.0624723116 -0.0004116665 1.0000000000 0.0384512150 0.0055522714 0.1174405875 -0.0008707682 0.8660897669 0.0165319166 0.0374178150 0.0477284338 -0.0012091027 0.8791731390 0.0280826340	0.5229471998 0.0829721860 0.0347375365 0.7281740266 0.0797317910 0.3507718687 0.0647763162 0.0330918882 0.4899884870 0.1633025503 0.5356774116 0.0537794451 0.0314364879 0.1798997375 0.2219404332 0.6978980456 0.0252631290 0.0384512150 1.0000000000 0.1365805231 0.5402498646 0.0872062027 0.0149978620 0.7861436147 0.2051403919 0.3718708282 0.0342804173 0.0300652657 0.5760155913	0.028940257 0.027165015 0.004524261 0.044440007 0.360715941 0.039711728 0.031030668 0.003414087 0.058952985 0.882939762 0.130076004 0.012543665 0.005571547 0.030931102 0.880107029 0.136803936 0.004814519 0.005552271 0.136580523 1.000000000 0.165778351 0.037636665 0.0011117 0.170364518 0.553950753 0.079533087 0.005003992 0.002343197 0.084441901	0.331788256 0.124716693 0.063414620 0.168834221 0.032526885 0.551330344 0.158972246 0.116814186 0.103153856 0.161248031 0.910435918 0.085941586 0.155531179 0.108857771 0.170959680 0.818247846 0.031109602 0.117440588 0.540249865 0.165778351 1.000000000 0.181385474 0.187425879 0.569402072 0.189341974 0.676268258 0.070918009 0.091685198 0.290835159	0.0634884660 0.5790540898 -0.0009629057 0.0377913258 0.0293732389 0.1950121112 0.7244443648 -0.0008561810 0.0723261276 0.0266302657 0.1236171781 0.7733231222 -0.0008130966 0.0190947646 0.0306654489 0.1233290279 0.6599804741 -0.0008707682 0.0872062027 0.0376366646 0.1813854738 1.00000000000 -0.0006968759 0.1271301402 0.0142202285 0.0536322440 0.4291960132 -0.0009928219 0.0293165561
sonycamneg nokiacamneg htccamneg iphonecamunc samsungcamunc sonycamunc nokiacamunc iphonedispos samsungdispos sonydispos nokiadispos htcdispos iphonedisneg samsungdisneg sonydisneg nokiadisneg iphonedisunc samsungdisunc sonydisunc nokiadisunc htcdisunc iphoneperpos samsungperpos sonyperpos nokiaperpos iphoneperneg	0.0312560558 -0.0007855577 0.8693024807 0.0314907315 0.0161489558 0.1064883513 -0.0011973676 0.9041127077 0.0289945827 0.0339761430 0.1066329775 -0.0009519206 0.9642123936 0.0087095722 0.0275317395 0.0624723116 -0.0004116665 1.000000000 0.0384512150 0.0055522714 0.1174405875 -0.0008707682 0.8660897669 0.0165319166 0.0374178150 0.0477284338 -0.0012091027 0.8791731390 0.0280826340 0.0335566373	0.5229471998 0.0829721860 0.0347375365 0.7281740266 0.0797317910 0.3507718687 0.0647763162 0.0330918882 0.4899884870 0.1633025503 0.5356774116 0.0537794451 0.0314364879 0.1798997375 0.2219404332 0.6978980456 0.0252631290 0.0384512150 1.0000000000 0.1365805231 0.5402498646 0.0872062027 0.0149978620 0.7861436147 0.2051403919 0.3718708282 0.0342804173 0.0300652657 0.5760155913 0.3044839313	0.028940257 0.027165015 0.004524261 0.044440007 0.360715941 0.039711728 0.031030668 0.003414087 0.058952985 0.882939762 0.130076004 0.012543665 0.005571547 0.030931102 0.880107029 0.136803936 0.004814519 0.005552271 0.136580523 1.00000000 0.165778351 0.037636665 0.001111975 0.170364518 0.553950753 0.079533087 0.005003992 0.002343197 0.084441901 0.563691874	0.331788256 0.124716693 0.063414620 0.168834221 0.032526885 0.551330344 0.158972246 0.116814186 0.103153856 0.161248031 0.910435918 0.085941586 0.155531179 0.108857771 0.170959680 0.818247846 0.031109602 0.117440588 0.540249865 0.165778351 1.000000000 0.117440588 0.540249865 0.165778351 1.000000000 0.181385474 0.187425879 0.569402072 0.189341974 0.676268258 0.070918009 0.091685198 0.290835159 0.232361375	0.0634884660 0.5790540898 -0.0009629057 0.0377913258 0.0293732389 0.1950121112 0.7244443648 -0.0008561810 0.0723261276 0.0266302657 0.1236171781 0.7733231222 -0.0008130966 0.0190947646 0.0306654489 0.1233290279 0.6599804741 -0.0008707682 0.0872062027 0.0376366646 0.1813854738 1.0000000000 -0.0006968759 0.1271301402 0.0142202285 0.0536322440 0.4291960132 -0.0009928219 0.0293165561 0.0121188710
sonycamneg nokiacamneg htccamneg iphonecamunc samsungcamunc sonycamunc nokiacamunc iphonedispos samsungdispos sonydispos nokiadispos htcdispos iphonedisneg samsungdisneg sonydisneg nokiadisneg htcdisneg iphonedisunc samsungdisunc sonydisunc nokiadisunc htcdisunc iphoneperpos samsungperpos sonyperpos nokiaperpos htcperpos	0.0312560558 -0.0007855577 0.8693024807 0.0314907315 0.0161489558 0.1064883513 -0.0011973676 0.9041127077 0.0289945827 0.0339761430 0.1066329775 -0.0009519206 0.9642123936 0.0087095722 0.0275317395 0.0624723116 -0.0004116665 1.0000000000 0.0384512150 0.0055522714 0.1174405875 -0.0008707682 0.8660897669 0.0165319166 0.0374178150 0.0477284338 -0.0012091027 0.8791731390 0.0280826340	0.5229471998 0.0829721860 0.0347375365 0.7281740266 0.0797317910 0.3507718687 0.0647763162 0.0330918882 0.4899884870 0.1633025503 0.5356774116 0.0537794451 0.0314364879 0.1798997375 0.2219404332 0.6978980456 0.0252631290 0.0384512150 1.0000000000 0.1365805231 0.5402498646 0.0872062027 0.0149978620 0.7861436147 0.2051403919 0.3718708282 0.0342804173 0.0300652657 0.5760155913	0.028940257 0.027165015 0.004524261 0.044440007 0.360715941 0.039711728 0.031030668 0.003414087 0.058952985 0.882939762 0.130076004 0.012543665 0.005571547 0.030931102 0.880107029 0.136803936 0.004814519 0.005552271 0.136580523 1.000000000 0.165778351 0.037636665 0.0011117 0.170364518 0.553950753 0.079533087 0.005003992 0.002343197 0.084441901	0.331788256 0.124716693 0.063414620 0.168834221 0.032526885 0.551330344 0.158972246 0.116814186 0.103153856 0.161248031 0.910435918 0.085941586 0.155531179 0.108857771 0.170959680 0.818247846 0.031109602 0.117440588 0.540249865 0.165778351 1.000000000 0.181385474 0.187425879 0.569402072 0.189341974 0.676268258 0.070918009 0.091685198 0.290835159	0.0634884660 0.5790540898 -0.0009629057 0.0377913258 0.0293732389 0.1950121112 0.7244443648 -0.0008561810 0.0723261276 0.0266302657 0.1236171781 0.7733231222 -0.0008130966 0.0190947646 0.0306654489 0.1233290279 0.6599804741 -0.0008707682 0.0872062027 0.0376366646 0.1813854738 1.00000000000 -0.0006968759 0.1271301402 0.0142202285 0.0536322440 0.4291960132 -0.0009928219 0.0293165561

sonyperneg	-0.0006059273	0.0233672927	0.002930222	0.040752718	0.1848570209
nokiaperneg	0.8213344860	0.0325481121	0.001494487	0.080629547	-0.0010129243
htcperneg	0.0365063487	0.8435392166	0.095575003	0.416789977	0.0283886470
iphoneperunc	0.0193505768	0.2251199253	0.623368394	0.254439294	0.0240732544
samsungperunc	0.0895064953	0.5358334913	0.157224860	0.940577107	0.0895545825
sonyperunc	-0.0007331522	0.0701301831	0.022979295	0.128524147	0.4753187875
nokiaperunc	0.8618161685	0.0236416043	0.001487205	0.136235365	-0.0009167952
htcperunc	0.0176411729	0.5507719471	0.092843375	0.344615102	0.0358684435
-	0.0170411723	0.0002663561	0.024090992	0.078626084	0.0336664433
iosperpos					
googleperpos	-0.0026116509	0.7062400990	0.133064557		-0.0027348811
iosperneg	0.0869745511	0.0010830902	0.023695731	0.063342013	0.0143736377
googleperneg	-0.0028707152	0.7004714160	0.106245301	0.512815553	-0.0030061693
iosperunc	0.1393990259	0.0098532417	0.030152191	0.039946924	-0.0031907160
googleperunc	-0.0016294145	0.6451038643	0.172537052	0.738574513	-0.0017062980
galaxysentiment	-0.0269310142	-0.1905757250	0.019354502	-0.055898029	-0.0309999101
	nokiadisunc	htcdisunc	iphoneperpos	samsungperpos	sonyperpos
iphone	-0.0073295453	0.022020409	-0.0114518063		-0.0063435345
samsunggalaxy	0.0146600770		-0.0029781969	0.242526479	0.0652618116
sonyxperia	-0.0032423668		-0.0290835468	0.019924925	0.2631294247
nokialumina	0.4913298135	0.021108199	0.0335940854		-0.0019005140
htcphone	-0.0000680297	0.029144563	0.0001384587	0.009670794	0.0046710087
ios		-0.012666751			-0.0039910529
googleandroid	-0.0035893426	0.147177949	0.1070324693	0.270568673	0.0009389863
iphonecampos	0.0096181394	0.155843934	0.3486013604	0.044969832	0.0127224448
samsungcampos	0.0468695194	0.086244790	0.0564200380	0.794039192	0.0434071228
sonycampos	-0.0013979898	0.053581627	0.0079971793	0.043761055	0.3790633475
nokiacampos	0.7956704142	0.016337955	0.0342884696		-0.0012665552
htccampos	0.0066937639	0.386183683	0.2438362671	0.023710224	0.0115451401
_					
iphonecamneg	0.0189156292	0.160024569	0.2559850775	0.172635000	0.0180821258
samsungcamneg	0.0518893313	0.163333108	0.1318463034	0.590673242	0.0379768430
sonycamneg	-0.0006286820	0.075298945	0.0267678791	0.059123870	0.5038519746
nokiacamneg	0.7211239215	0.014646350	0.0314806417	0.024997609	-0.0013370399
htccamneg	0.0119187549	0.474574337	0.1610814447	0.247191782	0.0124448803
iphonecamunc	0.0057176852	0.085783093	0.1889917344	0.027182576	0.0082845669
samsungcamunc	0.1709187126	0.188022768	0.0946430071	0.770027606	0.0894705738
sonycamunc	-0.0009582535	0.107349856	0.0178586165	0.055025899	0.3865275071
nokiacamunc	0.9121139598	0.014837038	0.0224036834		-0.0011888475
htccamunc	0.0119042862	0.605571862	0.1580346297	0.096468857	0.0234738684
	0.00119042802	0.171737497	0.6598213992	0.092635710	
iphonedispos					0.0106629843
samsungdispos	0.1708937889	0.460810983	0.1758278205	0.816473809	0.0710097303
sonydispos	-0.0007618222	0.056251112	0.0094872194	0.037123901	0.4973628888
nokiadispos	0.8846578244	0.014042781	0.0377035865		-0.0011290228
htcdispos	0.0034879421	0.201602203	0.0538986647	0.064549101	0.0081525224
iphonedisneg	0.0072757236	0.158704927	0.5311553684	0.116801822	0.0082444957
samsungdisneg	0.1010965595	0.501048877	0.2167160891	0.707746945	0.0643593883
sonydisneg	-0.0003294568	0.020094494	0.0014775734	0.012126002	0.3716386733
nokiadisneg	0.8660897669	0.016531917	0.0374178150	0.047728434	-0.0012091027
htcdisneg	0.0149978620	0.786143615	0.2051403919	0.371870828	0.0342804173
-	0.00111119755	0.170364518	0.5539507533	0.079533087	0.0050039925
iphonedisunc					
samsungdisunc	0.1874258791	0.569402072	0.1893419736	0.676268258	0.0709180095
sonydisunc	-0.0006968759	0.127130140	0.0142202285	0.053632244	0.4291960132
nokiadisunc	1.0000000000	0.006621782	0.0105282074	0.077259683	-0.0009676450
htcdisunc	0.0066217822	1.000000000	0.2050115627	0.288554961	0.0386061069
iphoneperpos	0.0105282074	0.205011563	1.0000000000	0.141566772	0.0300859020
samsungperpos	0.0772596832	0.288554961	0.1415667716	1.000000000	0.0665326710
sonyperpos	-0.0009676450	0.038606107	0.0300859020	0.066532671	1.0000000000
nokiaperpos	0.8155971857	0.015092266	0.0289079140		-0.0013785799
htcperpos	0.0129448340	0.686086502	0.2086300910	0.200644278	
iphoneperneg	0.0105733165	0.202481428	0.7938867127	0.189373270	
samsungperneg	0.0799428428	0.405749722	0.2128074351	0.802176556	0.0449504380
sonyperneg	-0.0004849237	0.020091072	0.0186111426	0.024477811	0.8014976195
			0.0186111426		
nokiaperneg	0.7624431501	0.016097941			-0.0014064931
htcperneg	0.0166239994	0.677341540	0.1836333481	0.323540972	
iphoneperunc	0.0080370774	0.248031792	0.7907883859	0.140873872	
samsungperunc	0.1431371747	0.538900501	0.2000575613	0.777251273	
sonyperunc	-0.0005867418	0.082426524	0.0359771403	0.055110660	0.7362796362
nokiaperunc	0.9239341089	0.010649812	0.0154071336	0.055513408	-0.0012730133
htcperunc	0.0073259556	0.721315436	0.1239551674	0.189237273	0.0123505505
iosperpos	0.1020280212	0.006410506	0.2116814231	0.274254351	
googleperpos	-0.0020901045	0.483106809	0.2417512206	0.444385633	
iosperneg	0.1020034918	0.006730236	0.2260625659	0.214260105	0.0058090240
	-0.0022974338	0.406629677	0.2202230733	0.441311898	0.0038090240
googleperneg					
iosperunc	0.1626827248	0.019657017	0.2131534593		-0.0044304593
googleperunc	-0.0013040206	0.593592947	0.2390473486		-0.0023692751
galaxysentiment			0.0246190070		-0.0233561418
	nokiaperpos			samsungperneg	
iphone	-0.0101601493	0.0280895774	0.010518187	0.106749860	-0.00360207113
samsunggalaxy	0.0018261992	0.0879891195	0.046511744	0.303806640	0.00997276561
sonyxperia	-0.0046193197	0.0039501249	-0.028702428	-0.001954085	0.12256137201
nokialumina	0.7374555536	0.0391281410	0.033896699		-0.00095241971
htcphone	0.0004517822	0.0308198578	0.004310848	0.017450427	0.00111164509

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ios		-0.0181567339		-0.007218094 -0.00291454430
googleandroid	-0.0023158553	0.2096613987	0.213673996	0.558397782 0.00565071770
iphonecampos	0.0211954185	0.2869333720	0.150869485	0.092098343 0.00704210795
samsungcampos	0.0216095512	0.1146195922	0.113258841	0.547344221 0.01939052378
sonycampos	-0.0019916814	0.0187250106	0.007059611	0.035114801 0.18722697920
nokiacampos	0.8874493622	0.0264063815	0.030875472	0.026194897 -0.00063471890
htccampos	0.0128386590	0.5859174326	0.074613471	0.133444763 0.00372833406
iphonecamneg	0.0394087035	0.2051312674	0.307061170	0.362011315 0.02059739273
samsungcamneg	0.0234945681	0.2422852520	0.260478673	0.825413224 0.02545357317
sonycamneg	-0.0008956676	0.0227371438	0.044863445	0.072412103 0.46542071250
			0.044863443	
nokiacamneg	0.8228796729	0.0238762940		0.025423214 -0.00067004146
htccamneg	0.0229506466	0.5505200588	0.247144175	0.510198709 0.00881509236
iphonecamunc	0.0114691841	0.0918573224	0.111406373	0.055077108 0.00486307423
samsungcamunc	0.0826958050	0.1782834501	0.166404297	0.687072767 0.04613736896
sonycamunc	-0.0013652000	0.0266339486	0.015913421	0.052299042 0.21288977663
nokiacamunc	0.9027649409	0.0264101724	0.021758130	0.048882010 -0.00059577664
htccamunc	0.0248473261	0.6521646928	0.109169341	0.174449277 0.00945849702
iphonedispos	0.0248844725	0.1249603201	0.637549393	0.142340126 0.00475677756
samsungdispos	0.0829242591	0.2762486402	0.238807046	0.809389758 0.03882226391
sonydispos	-0.0010853492	0.0181760550	0.006165917	0.037359253 0.16983452595
nokiadispos	0.8594811452	0.0239256466	0.031445896	0.065814004 -0.00056579621
_				
htcdispos	0.0070527199	0.1706297590	0.046924817	0.099978540 0.00414399348
iphonedisneg	0.0186919893	0.1003179419	0.641028889	0.195684738 0.00724364722
samsungdisneg	0.0481411813	0.3466994026	0.321181910	0.939464843 0.04092998838
sonydisneg	-0.0004693689	0.0055878482	0.002754212	0.014203756 0.10751662949
nokiadisneg	0.8791731390	0.0280826340	0.033556637	0.049121794 -0.00060592725
htcdisneg	0.0300652657	0.5760155913	0.304483931	0.623159857 0.02336729270
iphonedisunc	0.0023431972	0.0844419011	0.563691874	0.111738270 0.00293022250
samsungdisunc	0.0916851983	0.2908351585	0.232361375	0.714643776 0.04075271829
sonydisunc	-0.0009928219	0.0293165561	0.012118871	0.057212597 0.18485702088
nokiadisunc	0.8155971857	0.0293163361	0.012118871	0.037212397 0.18463702086 0.079942843 -0.00048492366
htcdisunc	0.0150922661	0.6860865020	0.202481428	0.405749722 0.02009107240
iphoneperpos	0.0289079140	0.2086300910	0.793886713	0.212807435 0.01861114258
samsungperpos	0.0367693433	0.2006442778	0.189373270	0.802176556 0.02447781128
sonyperpos	-0.0013785799	0.0320503067	0.029376968	0.044950438 0.80149761948
nokiaperpos	1.0000000000	0.0346427690	0.023987999	0.037649537 -0.00069085874
htcperpos	0.0346427690	1.0000000000	0.161017008	0.317036864 0.00595082954
iphoneperneg	0.0239879988	0.1610170077	1.000000000	0.317642064 0.04805314472
samsungperneg	0.0376495370	0.3170368639	0.317642064	1.000000000 0.03156094361
sonyperneg	-0.0006908587	0.0059508295	0.048053145	0.031560944 1.00000000000
nokiaperneg	0.9570141558	0.0370281513	0.021225968	0.032797169 -0.00070484707
	0.0445193996	0.7154536958	0.021223300	0.561372641 0.00800087978
htcperneg				
iphoneperunc	0.0144588959	0.1424400007	0.758909217	0.199251539 0.01567830206
samsungperunc	0.0697453289	0.2992458347	0.247797554	0.776935211 0.03052330605
sonyperunc	-0.0008359165	0.0237154378	0.043757151	0.062243315 0.68209822195
nokiaperunc	0.9173329873	0.0205603676	0.015426385	0.057191652 -0.00063795528
htcperunc	0.0163745389	0.8498301985	0.140734534	0.271315627 0.00629452584
iosperpos	0.0849337440	-0.0028105736	0.248501573	0.202854749 0.00002880773
googleperpos	0.0020368901	0.3804555947	0.346662696	0.758401516 0.01053025207
iosperneg	0.0845154235	-0.0027745009	0.283958130	0.161523043 0.00008837727
googleperneg	-0.0008395263	0.3586266425	0.350122081	0.796356352 0.01213078292
iosperunc		-0.0001956438	0.256811190	0.103116313 -0.00222027136
googleperunc	0.0031320281	0.3684965570	0.297424663	0.641221708 -0.00118733370
galaxysentiment				-0.133426703 -0.02341915493
. ,	nokiaperneg	htcperneg		samsungperunc sonyperunc
iphone	-0.0104212624		-0.0172624533	0.043282408 -0.0031203655
samsunggalaxy	0.0004595859		-0.0175850522	0.183818168 0.0322934086
sonyxperia		-0.0120972550		0.005806506 0.1447219008
nokialumina	0.7364514499	0.0500551081	0.0203441781	0.035313539 -0.0011523967
htcphone	0.0004596347	0.0338939290	0.0001981751	0.010570242 0.0047509923
ios	0.0023060574	-0.0216174139	-0.0152880123	-0.004735037 -0.0046197382
googleandroid	-0.0032426867	0.4338376147	0.0572324986	0.222107728 -0.0039543662
iphonecampos	0.0180035707	0.1092084958	0.1865084536	0.039569012 0.0173504603
samsungcampos	0.0187211095	0.2315758976	0.0314571284	0.486675117 0.0490858768
sonycampos	-0.0020320085	0.0094640465	0.0055261941	0.045174276 0.3507086050
nokiacampos	0.8356076985	0.0034040403	0.0033201341	0.049303204 -0.0007679891
htccampos	0.0136800603	0.2901152358	0.0595979217	0.057295111 0.0140655611
iphonecamneg	0.0383235319	0.3482787631	0.2159414885	0.139175768 0.0337608982
samsungcamneg	0.0202564523	0.5118194539	0.0702845560	0.389700324 0.0622917487
sonycamneg	-0.0009138029	0.0281035690	0.0268405586	0.084866691 0.6167570374
nokiacamneg	0.8322049716	0.0318817289	0.0189450995	0.048123401 -0.0008107283
htccamneg	0.0255494324	0.7562386546	0.1002137586	0.198978258 0.0304713045
iphonecamunc	0.0099685878	0.0704051352	0.1730754231	0.033407544 0.0232479942
samsungcamunc	0.0725280056	0.3281096739	0.0745015192	0.601622057 0.1383622956
sonycamunc	-0.0013928422	0.0194387547	0.0251337436	0.078254924 0.5465862762
nokiacamunc	0.8633791724	0.0134367347	0.0167172043	0.089033277 -0.0007208702
htccamunc	0.0269469360	0.5595456125	0.0167172043	0.106729580 0.0444070343
iphonedispos	0.0190064479	0.1237313812	0.6652942280	0.157307185 0.0256367561
samsungdispos	0.0727805241	0.4359795146	0.2088697668	0.898205400 0.1019606388
sonydispos	-0.0011073251	0.0168009689	0.0122575802	0.049024672 0.3239207897
nokiadispos	0.7603511068	0.0306008837	0.0183932842	0.118680256 -0.0006845949

htcdispos	0.0075120141	0.1552886794	0.0454154450	0.105329698 0.0137490830
iphonedisneg	0.0153455181	0.1733273751	0.5703738955	0.171119626 0.0248166695
samsungdisneg	0.0420545099	0.5929683401	0.2260024286	0.818185987 0.1113777243
sonydisneg	-0.0004788726	0.0071135699	0.0035695974	0.019408497 0.1150247030
nokiadisneg	0.8213344860	0.0365063487	0.0193505768	0.089506495 -0.0007331522
_				
htcdisneg	0.0325481121	0.8435392166	0.2251199253	0.535833491 0.0701301831
iphonedisunc	0.0014944871	0.0955750031	0.6233683939	0.157224860 0.0229792946
samsungdisunc	0.0806295468	0.4167899772	0.2544392944	0.940577107 0.1285241471
sonydisunc	-0.0010129243	0.0283886470	0.0240732544	0.089554583 0.4753187875
nokiadisunc	0.7624431501	0.0166239994	0.0080370774	0.143137175 -0.0005867418
htcdisunc	0.0160979409	0.6773415399	0.2480317923	0.538900501 0.0824265235
iphoneperpos	0.0217514686	0.1836333481	0.7907883859	0.200057561 0.0359771403
samsungperpos	0.0321158398	0.3235409717	0.1408738724	0.777251273 0.0551106601
sonyperpos	-0.0014064931	0.0102755695	0.0188198511	0.050159783 0.7362796362
nokiaperpos	0.9570141558	0.0445193996	0.0144588959	0.069745329 -0.0008359165
htcperpos	0.0370281513	0.7154536958	0.1424400007	0.299245835 0.0237154378
iphoneperneg	0.0212259676	0.2939416172	0.7589092167	0.247797554 0.0437571514
samsungperneg	0.0327971687	0.5613726406	0.1992515387	0.776935211 0.0622433148
sonyperneg	-0.0007048471	0.0080008798	0.0156783021	0.030523306 0.6820982219
nokiaperneg	1.0000000000	0.0489448143	0.0127108456	0.061276337 -0.0008528419
htcperneg	0.0489448143	1.0000000000	0.1856662366	0.436953575 0.0223995862
iphoneperunc	0.0127108456	0.1856662366	1.0000000000	0.257579312 0.0492418692
samsungperunc	0.0612763371	0.4369535746	0.2575793120	1.000000000 0.0849629743
sonyperunc	-0.0008528419	0.0223995862	0.0492418692	0.084962974 1.0000000000
nokiaperunc	0.9052213220	0.0268139175	0.0126468721	0.103870121 -0.0007719050
htcperunc	0.0177348957	0.6598137354	0.1720801124	0.346223328 0.0297101928
iosperpos	0.0795386222	-0.0036321137	0.1676108874	0.102918715 -0.0027396882
googleperpos	0.0005009751	0.6291204572	0.2440512068	0.617054315 -0.0023026608
iosperneg		-0.0025639936	0.1804198052	0.083311770 -0.0025959242
	-0.0016219132	0.6391886849	0.1973448149	0.542046611 -0.0025310747
googleperneg				
iosperunc	0.1279884203	0.0003219026	0.1828074372	0.053963150 -0.0026864557
googleperunc	0.0016260796	0.5401134706	0.2986927143	0.740607313 -0.0014366349
galaxysentiment	-0.0395334754	-0.2072315819	0.0326836891	-0.054218889 -0.0133558416
	nokiaperunc	htcperunc	iosperpos	googleperpos iosperneg
iphone	-0.0093821218	-	-0.01964031129	0.1094526897 -0.01867363291
samsunggalaxy	0.0072923230		-0.00587915432	0.2462351542 -0.00791513059
sonyxperia				-0.0084985788 -0.01035904545
nokialumina	0.6484394494	0.0237591934	0.03069652764	0.0064950782 0.03269977678
htcphone	0.0001097110	0.0213908585	-0.00293592926	0.0191795588 -0.00276685944
ios	0.0050178442	-0.0119276203	0.11829380892	-0.0164565338 0.11234427076
googleandroid	-0.0014208633	0.1097905831	-0.01675980837	0.6389390017 -0.01588034433
iphonecampos	0.0148406002	0.0669218227	-0.00397021576	0.1179836313 -0.00704181593
samsungcampos	0.0332388315	0.0603743949	0.10260529143	0.2986522534 0.07579513014
sonycampos	-0.0018391656		-0.00301605503	0.0069805360 -0.00276424901
	0.8582948157	0.0172626278	0.10311082176	0.0115514955 0.10352814517
nokiacampos				
htccampos	0.0104831002		-0.00611869893	0.1632134901 -0.00575798755
iphonecamneg	0.0265994674		-0.01222785910	0.4178946180 -0.01364389040
samsungcamneg	0.0365285481	0.1220749713	0.11002532522	0.6586286127 0.08124753736
sonycamneg	-0.0008270806	0.0262945924	-0.00129053333	0.0208928764 -0.00117899517
nokiacamneg	0.7889261781	0.0162355042	0.08898817529	0.0027050397 0.09029752999
htccamneg	0.0195362779		-0.01096947938	0.5790457486 -0.00991056725
iphonecamunc	0.0090454513		-0.00495508243	0.0769353719 -0.00874104453
samsungcamunc	0.1236612748	0.1232133772	0.12954259444	0.4190039004 0.09776155593
sonycamunc	-0.0012606579			-0.0037606539 -0.00057578035
nokiacamunc	0.9581518990	0.0159507593	0.10841273962	0.0058969910 0.10888679204
htccamunc	0.0188177181	0.6012260266	-0.00787162416	0.2234896449 -0.00710682945
iphonedispos	0.0124100206	0.0916188457	0.02029182892	0.1658831441 0.01534255319
samsungdispos	0.1237945962	0.2845632030	0.11831311975	0.6074593137 0.09217649712
sonydispos	-0.0010022371	0.0168874444	0.02571588432	0.0002494674 0.02514620855
nokiadispos	0.8366996643	0.0144910357		-0.0024386792 0.07939384169
htcdispos	0.0053188881		-0.00114323068	0.1183631135 -0.00100902501
iphonedisneg	0.0097424307	0.0964830230	0.01560114383	0.2188666272 0.01690743030
samsungdisneg	0.0726581754	0.3171493413	0.10446237320	0.8087454159 0.08190128786
sonydisneg	-0.0004334264	0.0066833268	0.03026630544	0.0005733788 0.02952528219
nokiadisneg	0.8618161685	0.0176411729		-0.0026116509 0.08697455106
htcdisneg		0.5507719471	0.00710772373	0.7062400990 0.00108309023
_	0.0236416043			
iphonedisunc	0.0014872051	0.0928433746	0.02409099154	0.1330645569 0.02369573080
samsungdisunc	0.1362353653	0.3446151023	0.07862608446	0.5944693078 0.06334201347
sonydisunc	-0.0009167952	0.0358684435	0.01466588899	-0.0027348811 0.01437363768
nokiadisunc			0.10202802119	-0.0020901045 0.10200349181
HOKTAUTSUIC	0.9239341089	0.0073259556	0.10202002113	
htcdisunc		0.0073259556 0.7213154358	0.00641050615	0.4831068089 0.00673023583
htcdisunc	0.9239341089 0.0106498118	0.7213154358	0.00641050615	0.4831068089 0.00673023583
htcdisunc iphoneperpos	0.9239341089 0.0106498118 0.0154071336	0.7213154358 0.1239551674	0.00641050615 0.21168142308	0.4831068089 0.00673023583 0.2417512206 0.22606256595
htcdisunc iphoneperpos samsungperpos	0.9239341089 0.0106498118 0.0154071336 0.0555134081	0.7213154358 0.1239551674 0.1892372729	0.00641050615 0.21168142308 0.27425435067	0.4831068089 0.00673023583 0.2417512206 0.22606256595 0.4443856329 0.21426010465
htcdisunc iphoneperpos samsungperpos sonyperpos	0.9239341089 0.0106498118 0.0154071336 0.0555134081 -0.0012730133	0.7213154358 0.1239551674 0.1892372729 0.0123505505	0.00641050615 0.21168142308 0.27425435067 0.00583954857	0.4831068089 0.00673023583 0.2417512206 0.22606256595 0.4443856329 0.21426010465 0.0077913188 0.00580902403
htcdisunc iphoneperpos samsungperpos sonyperpos nokiaperpos	0.9239341089 0.0106498118 0.0154071336 0.0555134081 -0.0012730133 0.9173329873	0.7213154358 0.1239551674 0.1892372729 0.0123505505 0.0163745389	0.00641050615 0.21168142308 0.27425435067 0.00583954857 0.08493374403	0.4831068089 0.00673023583 0.2417512206 0.22606256595 0.4443856329 0.21426010465 0.0077913188 0.00580902403 0.0020368901 0.08451542348
htcdisunc iphoneperpos samsungperpos sonyperpos	0.9239341089 0.0106498118 0.0154071336 0.0555134081 -0.0012730133	0.7213154358 0.1239551674 0.1892372729 0.0123505505 0.0163745389	0.00641050615 0.21168142308 0.27425435067 0.00583954857	0.4831068089 0.00673023583 0.2417512206 0.22606256595 0.4443856329 0.21426010465 0.0077913188 0.00580902403
htcdisunc iphoneperpos samsungperpos sonyperpos nokiaperpos	0.9239341089 0.0106498118 0.0154071336 0.0555134081 -0.0012730133 0.9173329873	0.7213154358 0.1239551674 0.1892372729 0.0123505505 0.0163745389	0.00641050615 0.21168142308 0.27425435067 0.00583954857 0.08493374403	0.4831068089 0.00673023583 0.2417512206 0.22606256595 0.4443856329 0.21426010465 0.0077913188 0.00580902403 0.0020368901 0.08451542348
htcdisunc iphoneperpos samsungperpos sonyperpos nokiaperpos htcperpos	0.9239341089 0.0106498118 0.0154071336 0.0555134081 -0.0012730133 0.9173329873 0.0205603676	0.7213154358 0.1239551674 0.1892372729 0.0123505505 0.0163745389 0.8498301985	0.00641050615 0.21168142308 0.27425435067 0.00583954857 0.08493374403 -0.00281057364	0.4831068089 0.00673023583 0.2417512206 0.22606256595 0.4443856329 0.21426010465 0.0077913188 0.00580902403 0.0020368901 0.08451542348 0.3804555947 -0.00277450092
htcdisunc iphoneperpos samsungperpos sonyperpos nokiaperpos htcperpos iphoneperneg samsungperneg	0.9239341089 0.0106498118 0.0154071336 0.0555134081 -0.0012730133 0.9173329873 0.0205603676 0.0154263846 0.0571916516	0.7213154358 0.1239551674 0.1892372729 0.0123505505 0.0163745389 0.8498301985 0.1407345338 0.2713156267	0.00641050615 0.21168142308 0.27425435067 0.00583954857 0.08493374403 -0.00281057364 0.24850157279 0.20285474860	0.4831068089 0.00673023583 0.2417512206 0.22606256595 0.4443856329 0.21426010465 0.0077913188 0.00580902403 0.0020368901 0.08451542348 0.3804555947 -0.00277450092 0.3466626958 0.28395812962 0.7584015158 0.16152304268
htcdisunc iphoneperpos samsungperpos sonyperpos nokiaperpos htcperpos iphoneperneg samsungperneg sonyperneg	0.9239341089 0.0106498118 0.0154071336 0.0555134081 -0.0012730133 0.9173329873 0.0205603676 0.0154263846 0.0571916516 -0.0006379553	0.7213154358 0.1239551674 0.1892372729 0.0123505505 0.0163745389 0.8498301985 0.1407345338 0.2713156267 0.0062945258	0.00641050615 0.21168142308 0.27425435067 0.00583954857 0.08493374403 -0.00281057364 0.24850157279 0.20285474860 0.00002880773	0.4831068089 0.00673023583 0.2417512206 0.22606256595 0.4443856329 0.21426010465 0.0077913188 0.00580902403 0.0020368901 0.08451542348 0.3804555947 -0.00277450092 0.3466626958 0.28395812962 0.7584015158 0.16152304268 0.0105302521 0.00008837727
htcdisunc iphoneperpos samsungperpos sonyperpos nokiaperpos htcperpos iphoneperneg samsungperneg	0.9239341089 0.0106498118 0.0154071336 0.0555134081 -0.0012730133 0.9173329873 0.0205603676 0.0154263846 0.0571916516	0.7213154358 0.1239551674 0.1892372729 0.0123505505 0.0163745389 0.8498301985 0.1407345338 0.2713156267 0.0062945258 0.0177348957	0.00641050615 0.21168142308 0.27425435067 0.00583954857 0.08493374403 -0.00281057364 0.24850157279 0.20285474860	0.4831068089 0.00673023583 0.2417512206 0.22606256595 0.4443856329 0.21426010465 0.0077913188 0.00580902403 0.0020368901 0.08451542348 0.3804555947 -0.00277450092 0.3466626958 0.28395812962 0.7584015158 0.16152304268

```
0.0126468721 0.1720801124 0.16761088743 0.2440512068 0.18041980518
iphoneperunc
              0.1038701208 0.3462233283 0.10291871466 0.6170543151 0.08331176957
samsungperunc
               -0.0007719050 \\ \phantom{-}0.0297101928 \\ \phantom{-}0.00273968818 \\ \phantom{-}0.0023026608 \\ \phantom{-}0.00259592417
sonyperunc
               1.0000000000 0.0123640928 0.09832378207 0.0031671929 0.09884705731
nokiaperunc
               0.0123640928 1.000000000 0.00095989241 0.3331110571 0.00066355283
htcperunc
              0.0983237821 0.0009598924 1.0000000000 -0.0097593780 0.93237885191
iosperpos
googleperpos 0.0031671929 0.3331110571 -0.00975937802 1.0000000000 -0.00924725868
               0.0988470573 \quad 0.0006635528 \quad 0.93237885191 \ -0.0092472587 \quad 1.00000000000
iosperneg
              -0.0001510116 0.2809673805 -0.01072746573 0.9574081611 -0.01016454638
googleperneg
iosperunc
               0.1577030654 \quad 0.0084299182 \quad 0.90507428524 \quad -0.0095697521 \quad 0.89981373312
googleperunc
               galaxysentiment -0.0323515603 -0.1144875788 -0.01546352398 -0.1328412643 -0.01188708655
               googleperneg iosperunc googleperunc galaxysentiment
               0.1287539494 -0.0199942152 0.0628939791 0.001486419
iphone
samsunggalaxy
              0.2912043221 -0.0154150726 0.1423566132
                                                         -0.345257248
               -0.0086032820 -0.0148454995 -0.0079389223 -0.219816736
sonvxperia
nokialumina
              0.0006319213 0.0528654693 0.0079866214 -0.052469037
htcphone
               0.0207186100 -0.0026750279 0.0133005184
                                                         -0.051909142
                                                       -0.011527725
              -0.0180889501 0.1170506428 -0.0102672660
ios
googleandroid 0.7169205938 -0.0164341632 0.3722010590
                                                       -0.186733253
inhonecampos
               0.1244423317 -0.0010150920 0.0730537373
                                                         -0.031921433
              0.3578076395 0.0449525543 0.1593681328
                                                         -0.112302827
samsungcampos
               0.0088197536 -0.0064008355 -0.0034229725
                                                        -0.076336596
sonvcampos
nokiacampos
              0.0039264212 0.1651775918 0.0125098136
                                                        -0.031771935
               0.1773052396 -0.0060760353 0.1000721774
htccampos
                                                         -0.120156303
iphonecamneg
               0.4688720637 -0.0107455504 0.2414102339
                                                         -0.093805039
samsungcamneg 0.7942718540 0.0469955688 0.3421030588
                                                        -0.182639799
sonycamneg
               0.0251141558 -0.0028784831 -0.0015393253
                                                         -0.009612904
              -0.0004601931 0.1436642579 0.0037635740
                                                         -0.031840313
              0.6534608337 -0.0102249759 0.3341386094
htccamneg
                                                         -0.222750052
iphonecamunc
               0.0748746569 -0.0013682787 0.0581564942
                                                         -0.010329492
samsungcamunc
               0.4785514979 0.0578678902 0.2704794080
                                                         -0.136028471
              -0.0041336943 -0.0043874590 -0.0023462799
sonvcamunc
                                                         -0.047872336
               0.0012853540 0.1734942045 0.0068209492
nokiacamunc
                                                         -0.027752416
htccamunc
               0.2277658772 -0.0051893582 0.1625629101
                                                         -0.148868149
iphonedispos
               0.1473005875 0.0248339180 0.1800083584
                                                          0.009145782
samsungdispos 0.5809127842 0.0573932211 0.6371415303
                                                         -0.095659580
sonydispos
              0.0018226190 -0.0034880789 -0.0018653187
                                                         -0.034666620
               -0.0026805855 0.1272536659 -0.0015214970
nokiadispos
              0.1092615661 0.0005828749 0.1240397587
                                                         -0.060638338
htcdispos
iphonedisneg
               0.2139622315 0.0182688380 0.2047130226
                                                         -0.003520125
              0.8265965415 0.0506859021 0.7355217500
samsungdisneg
                                                         -0.132665246
               0.0018997752 -0.0015084508 -0.0008066737
sonydisneg
                                                         -0.019882775
              -0.0028707152 0.1393990259 -0.0016294145
nokiadisneg
                                                         -0.026931014
htcdisnea
               0.7004714160 0.0098532417 0.6451038643
                                                         -0.190575725
iphonedisunc
               0.1062453012 0.0301521910 0.1725370516
                                                          0.019354502
samsungdisunc 0.5128155534 0.0399469239 0.7385745130
                                                         -0.055898029
sonydisunc
              -0.0030061693 -0.0031907160 -0.0017062980
                                                         -0.030999910
nokiadisunc
               -0.023286467
               0.4066296768 0.0196570169 0.5935929474
htcdisunc
                                                         -0.132600148
iphoneperpos
               0.2202230733 0.2131534593 0.2390473486
                                                         0.024619007
              0.4413118979 0.1370706828 0.4276221323
                                                         -0.077430604
samsungperpos
sonyperpos
               0.0081553611 -0.0044304593 -0.0023692751
                                                         -0.023356142
              -0.0008395263 0.1359298701 0.0031320281
                                                         -0.035892661
nokiaperpos
htcperpos
              0.3586266425 -0.0001956438 0.3684965570
                                                         -0.175447029
iphoneperneg
               0.3501220814 0.2568111900 0.2974246632
                                                         -0.008834592
samsungperneg 0.7963563517 0.1031163135 0.6412217078
                                                         -0.133426703
sonyperneg
               0.0121307829 -0.0022202714 -0.0011873337
                                                         -0.023419155
               -0.0016219132 0.1279884203 0.0016260796
                                                         -0.039533475
nokiaperneg
               0.6391886849 0.0003219026 0.5401134706
htcperneg
                                                         -0.207231582
iphoneperunc
               0.1973448149 0.1828074372 0.2986927143
                                                          0.032683689
              0.5420466111 0.0539631498 0.7406073126
                                                         -0.054218889
samsungperunc
sonyperunc
               -0.0025310747 -0.0026864557 -0.0014366349
                                                         -0.013355842
              -0.0001510116 0.1577030654 0.0041721138
                                                         -0.032351560
nokiaperunc
htcperunc
              0.2809673805 0.0084299182 0.3946571026
                                                         -0.114487579
iosperpos
               -0.0107274657 0.9050742852 -0.0060888964
                                                         -0.015463524
               0.9574081611 -0.0095697521 0.8870326954
googleperpos
                                                         -0.132841264
              -0.0101645464 0.8998137331 -0.0057693841
                                                         -0.011887087
               1.0000000000 -0.0105190298 0.7561152696
googleperneg
                                                         -0.159571761
               -0.0105190298 1.0000000000 -0.0059705884
                                                         -0.015547663
iosperunc
               0.7561152696 -0.0059705884 1.0000000000
                                                         -0.067570988
googleperunc
galaxysentiment -0.1595717615 -0.0155476630 -0.0675709882
                                                         1.000000000
```

### Remove highly correlated variables

Hide

```
Correlation method: 'pearson'
Missing treated using: 'pairwise.complete.obs'

Hide

# Examine variables with correlation above .9
corr_df_filtered <- corr_df %>% filter(r > .9)
```

Which variables will I keep? I copied corr\_df\_big\_filtered into a spreadsheet and removed all duplicates.

"iphone", "htcphone", "ios", "nokiacampos", "nokiacamneg", "nokiacamunc", "samsungdispos", "sonydispos", "nokiadispos", "htcdispos", "samsungdisneg", "sonydisr

```
Hide
#columns to remove
corr_to_remove <- c("iphone","htcphone","ios","nokiacampos","nokiacamneg","nokiacamunc","samsungdispos","sonydisp
\verb|os","| nokiadispos"," htcdispos"," samsung disneg"," sony disneg"," nokiadisneg"," samsung disunc"," nokiadisunc"," nokiaperpular nokiadispos"," htcdispos"," htcdispos", htcline htc
os", "samsungperneg", "nokiaperneg", "samsungperunc", "nokiaperunc", "iosperpos", "googleperpos", "iosperneg")
                                                                                                                                                                                                                                                                                                                                              Hide
samsungCOR <- samsung[ , -which(names(samsung) %in% corr_to_remove)]</pre>
                                                                                                                                                                                                                                                                                                                                              Hide
names(samsungCOR)
  [1] "samsunggalaxy"
                                                                    "sonyxperia"
                                                                                                                            "nokialumina"
                                                                                                                                                                                  "googleandroid"
                                                                                                                                                                                                                                       "iphonecampos"
  [6] "samsungcampos"
                                                                                                                                                                                  "iphonecamneg"
                                                                    "sonycampos"
                                                                                                                            "htccampos"
                                                                                                                                                                                                                                       "samsungcamneg'
                                                                                                                                                                                 "samsungcamunc"
[11] "sonycamneg"
                                                                    "htccamneg"
                                                                                                                           "iphonecamunc"
                                                                                                                                                                                                                                       "sonycamunc'
[16] "htccamunc"
                                                                     "iphonedispos"
                                                                                                                            "iphonedisneg"
                                                                                                                                                                                  "htcdisneg"
                                                                                                                                                                                                                                        "iphonedisunc"
[21] "sonydisunc"
                                                                                                                            "iphoneperpos"
                                                                                                                                                                                                                                       "sonyperpos"
                                                                     "htcdisunc"
                                                                                                                                                                                  "samsungperpos"
[26] "htcperpos"
                                                                    "iphoneperneg"
                                                                                                                           "sonyperneg"
                                                                                                                                                                                 "htcperneg"
                                                                                                                                                                                                                                       "iphoneperunc"
[31] "sonyperunc"
                                                                     "htcperunc"
                                                                                                                           "googleperneg"
                                                                                                                                                                                 "iosperunc"
                                                                                                                                                                                                                                       "googleperunc"
[36] "galaxysentiment"
```

#### **Train Model**

#### Train and Test Set

```
# convert variable types, categorical samsungCOR$galaxysentiment)
```

Train and Test Set:

```
# Create Train and Test Set for samsungCOR
# create 75% sample of row indices
in_training <-createDataPartition(samsungCOR$galaxysentiment, p = .7, list = FALSE)
# create 75% sample of data and save it to trainData
trainData_samsungCOR <- samsungCOR[in_training, ]
# create 25% sample of data and save it to test_data
testData_samsungCOR <- samsungCOR[-in_training, ]
# verify split percentages
nrow(trainData_samsungCOR) / nrow(samsungCOR)
```

```
Models
```

[1] 0.7001781

```
#c5
c5_samsungCOR <- train(galaxysentiment ~., data = trainData_samsungCOR, method = "C5.0",
trControl = fitControl)
```

Hide

```
# randomforest.
 rf_samsungCOR <- train(galaxysentiment ~., data = trainData_samsungCOR, method = "rf",
                  trControl = fitControl)
                                                                                                                      Hide
 ## svm performed worst in out-of-box model test
 # svm (kernlab)
 #svm_samsungCOR <- train(galaxysentiment ~., data = trainData_samsungCOR, method = "svmLinear",
                   trControl = fitControl)
                                                                                                                     Hide
 # kknn
 kknn_samsungCOR <- train(galaxysentiment ~., data = trainData_samsungCOR, method = "kknn",
                  trControl = fitControl)
                                                                                                                      Hide
 #gbm_samsungCOR <- train(galaxysentiment ~., data = trainData_samsungCOR, method = "gbm",</pre>
                   trControl = fitControl)
Model Summaries
Compare Accuracy on Prediction Results:
                                                                                                                      Hide
 #c5
 prediction_c5_samsungCOR <- predict(c5_samsungCOR, testData_samsungCOR)</pre>
 \verb|postResample(prediction_c5_samsungCOR, testData_samsungCOR\$galaxysentiment)| \\
  Accuracy
                Kappa
 0.7253940 0.4398521
                                                                                                                     Hide
 #randomforest
 \verb|prediction_rf_samsungCOR| <- \verb|predict(rf_samsungCOR, testData_samsungCOR)| \\
 postResample(prediction rf samsungCOR, testData samsungCOR$galaxysentiment)
  Accuracy
               Kappa
 0.7284939 0.4514073
                                                                                                                      Hide
 #prediction_svm_samsungCOR <- predict(svm_samsungCOR, testData_samsungCOR)</pre>
 #postResample(prediction_svm_samsungCOR, testData_samsungCOR$galaxysentiment)
 prediction_kknn_samsungCOR <- predict(kknn_samsungCOR, testData_samsungCOR)</pre>
 \verb|postResample(prediction_kknn_samsungCOR, testData_samsungCOR\$galaxysentiment)| \\
  Accuracy
               Kappa
 0.7160940 0.4328108
                                                                                                                      Hide
 modelData_samsungCOR <- resamples(list(C50 = c5_samsungCOR, randomForest = rf_samsungCOR,</pre>
                                          #svMLinear = svm samsungCOR,
                                          kknn = kknn_samsungCOR))
                                                                                                                      Hide
 summary(modelData_samsungCOR)
```

```
Call:
summary.resamples(object = modelData_samsungCOR)
Models: C50, randomForest, kknn
Number of resamples: 10
Accuracy
              Min. 1st Qu. Median Mean 3rd Qu. Max. NA's
       0.7038674 0.7199776 0.7225914 0.7241212 0.7304932 0.7419712 0
randomForest 0.7142857 0.7195796 0.7251097 0.7255498 0.7280033 0.7447514
                                                                 0
kknn 0.6991150 0.7065338 0.7097130 0.7129433 0.7182056 0.7411504
Kappa
               Min. 1st Qu. Median
                                        Mean 3rd Qu.
                                                          Max. NA's
C50 0.3874464 0.4231943 0.4312376 0.4383983 0.4535862 0.4835402 0
randomForest 0.4136777 0.4269169 0.4450812 0.4467860 0.4581260 0.4920684
kknn 0.4040034 0.4125521 0.4204905 0.4273078 0.4324696 0.4887755 0
```