

Data Analysis Tool

Author: Dr. Martin Schrepp

The goal of this tool is to make the analysis of UEQ (User Experience Questionnaire) data as easy as possible for you. You simply enter the data obtained from your respondents into the Data worksheet. The tool then automatically calculates all statistics necessary to interpret the results. In addition, several graphs are shown that you may want to use in your result presentations. Simply copy them to your word processor or presentation tool.

The instructions in this tool are in English. To make the interpretation of the results easier and to have the charts in your language you can switch the language in the following dropdown. This will only switch the items and scale names, not the instructions in the Excel.

Choose your Language:

Please Note: Changing the language will show the UEQ items and the UEQ dimensions in the selected language. All other texts will remain in English.

The tool contains the following work sheets:

Data: Here you can enter the raw data of your evaluation. **This is the only work sheet that you need to modify. Do not change the content of the other work sheets, you may destroy unintentionally some of the formulas in the cells!**

DT: The order of the items (i.e. if the positive term is left or right in an item) is randomized in the questionnaire to minimized answer tendencies. Here the items are changed to a common order (negative term left, positive term right). The transformed data are used for all the further calculations.

Results: Main results of the questionnaire. Here the scale means and the mean and standard deviation per item are calculated.

Confidence_Intervals: Confidence intervals for the scale means and for the mean of each item are calculated.

Answer_Distributions: Here you can see the distributions of the answers (values 1 to 7) for the single items. This can help to find items that show a polarization of opinions, i.e. where many negative and many positive answers can be found.

Scale_Consistency: Here the Cronbach-Alpha Coefficient and Guttman's Lambda2 coefficient per scale are calculated. Check here if the scales have a sufficiently high values. Scales with a small value (<0.5) should be treated carefully in the interpretation (if you have only a small sample size (< 50 responses) then interpret these values very carefully. In such cases a small value for these coefficients may result solely from sampling effects and may not indicate a real problem.

Benchmark: The benchmark shows you in an easy way how good the evaluated product is compared to the products in the benchmark data set. There is also a graphic that shows for each scale how the results are related to the products in the benchmark data set.

Inconsistencies: On this work sheet the data are analysed for inconsistent answers, i.e. answers from participants that answered at least a part of the items randomly. You may want to remove these data before you calculate the results.

Sample_Size: If you observe big error bars concerning the scale means you may ask yourself if you need to collect additional data. This sheet helps you to estimate how many data you need in order to reach a certain precision.

KPI_Calculation: There is an extension of the UEQ with 6 additional questions. This extension allows to calculate a KPI (single number representing the overall user experience). This work sheet is only relevant if you used this extension. It allows to enter the data obtained for the 6 additional questions and calculates the KPI.

Items: Contains the item and dimension names in the different languages. Used for switching the language. Please do not modify data in this sheet.

Please enter the data here!

Use the item numbers in the printed questionnaire and the categories 1 (if the alternative on the extreme left is marked) to 7 (if the alternative on the extreme right is marked).

Leave the cell empty if the person has not answered the item. Please do not enter a special character in such cases, since this would cause errors in the calculations.

You can enter data for a **maximum of 1000** participants. If you need more, you have to adjust the fomulas in the Excel.

The data analysis tool is delivered with some example data in this work sheet. Simply delete them before you enter your data here.

Items																											
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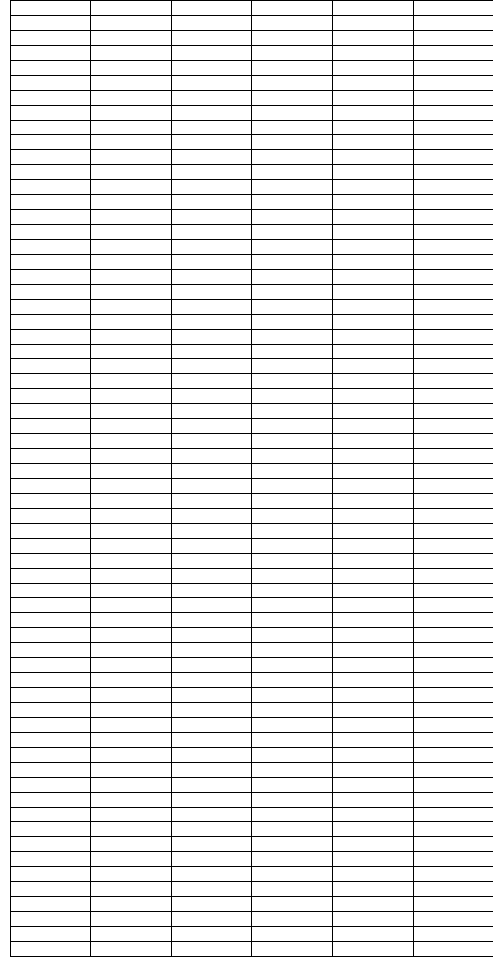
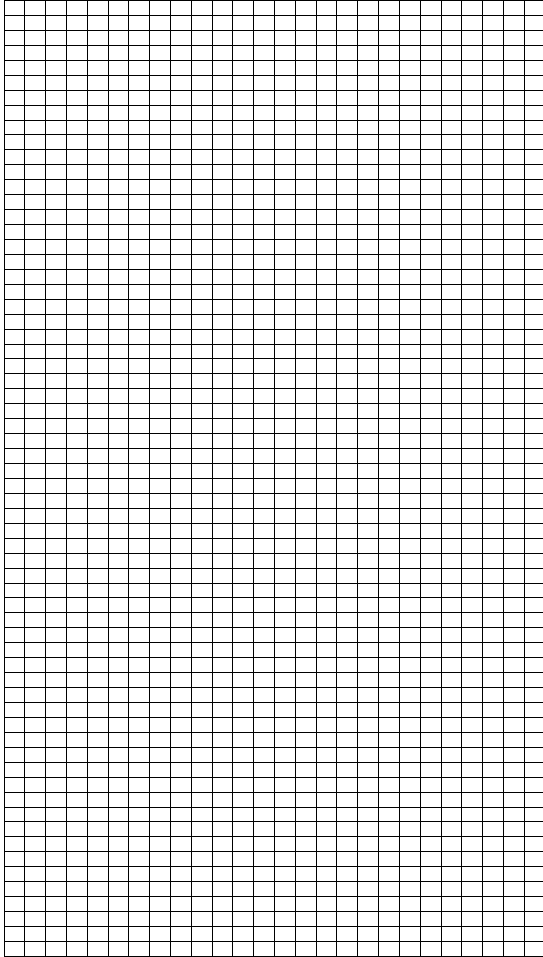
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7	6	1	2	1	6	6	6	1	1	7	1	3	6	6	6	1	2	2	7	2	6	1	1	2	7	275
5	6	4	2	2	4	5	6	2	4	5	2	6	6	4	6	2	3	2	6	3	6	2	4	3	2	276
6	5	3	2	3	5	5	6	3	5	6	2	6	6	2	6	2	4	2	5	3	6	2	2	3	4	277
6	5	3	3	2	6	6	3	2	4	5	2	6	6	6	6	2	4	1	6	2	6	2	2	2	6	278
5	7	4	1	1	5	5	6	1	3	5	1	7	7	5	7	1	2	1	7	1	7	1	1	4	4	279
6	7	3	2	3	6	6	4	2	3	5	2	7	6	5	5	2	4	3	5	2	5	2	2	2	4	280
7	6	1	2	1	6	6	6	1	1	7	1	3	6	6	6	1	2	2	7	2	6	1	1	2	7	281
7	6	1	2	1	6	6	6	1	1	7	1	3	6	6	6	1	2	2	7	2	6	1	1	2	7	282
6	7	3	2	2	4	6	4	2	2	6	2	6	5	4	5	6	4	6	6	2	6	2	3	2	6	283
5	6	4	2	2	4	5	6	2	4	5	2	6	6	4	6	2	3	2	6	3	6	2	4	3	2	284
5	3	5	3	4	4	4	3	5	5	3	4	5	5	3	4	5	5	5	3	5	4	7	5	6	3	285
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6	5	4	2	1	6	7	2	1	1	4	5	6	4	6	6	2	4	1	7	1	7	5	3	4	6	288
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7	6	1	2	1	6	6	6	1	1	7	1	3	6	6	6	1	2	2	7	2	6	1	1	2	7	291
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6	5	3	3	2	6	6	3	2	4	5	2	6	6	6	6	2	4	1	6	2	6	2	2	2	6	295
5	7	4	1	1	5	5	6	1	3	5	1	7	7	5	7	1	2	1	7	1	7	1	1	4	4	296
7	7	1	1	1	7	7	1	1	1	7	1	7	7	7	7	1	1	1	7	1	7	1	1	1	7	297
6	5	3	2	3	5	5	6	3	5	6	2	6	6	2	6	2	4	2	5	3	6	2	2	3	4	298
7	6	1	2	1	6	6	6	1	1	7	1	3	6	6	6	1	2	2	7	2	6	1	1	2	7	299
2	7	4	1	1	4	4	7	1	5	4	2	7	5	2	5	2	4	2	7	2	7	2	4	4	5	300
7	6	1	2	1	6	6	6	1	1	7	1	3	6	6	6	1	2	2	7	2	6	1	1	2	7	301
5	3	5	3	4	4	4	3	5	5	3	4	5	5	3	4	5	5	5	3	5	4	7	5	6	3	302
2	7	4	1	1	4	4	7	1	5	4	2	7	5	2	5	2	4	2	7	2	7	2	4	4	5	303
7	6	1	2	1	7	7	4	2	1	7	1	6	7	6	7	3	4	1	7	1	7	1	1	1	7	304
7	6	1	2	1	6	6	6	1	1	7	1	3	6	6	6	1	2	2	7	2	6	1	1	2	7	305
6	6	2	2	2	5	6	5	3	2	6	2	6	6	6	6	4	2	2	6	2	6	2	3	2	6	306

Transformed Data

The order of the positive and negative term for an item is randomized in the questionnaire. Per dimension half of the items start with the positive and half with the negative term.

Here you can find the transformed values per item. You can use these values for example for own statistical calculations. The +3 represent the most positive and the -3 the most negative value.

Items																											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26		
2	3	2	3	2	2	2	2	2	1	2	2	1	2	1	1	2	2	2	2	2	2	2	2	2	2	2	
3	2	3	2	2	2	2	3	3	3	-1	2	2	2	2	3	2	2	3	2	2	3	2	2	3	3	2	
3	3	2	3	3	1	2	-2	2	2	1	3	1	2	2	2	1	2	2	1	2	2	2	1	1	2	0	
2	2	0	2	1	0	0	2	2	1	1	3	3	1	2	2	3	0	3	3	3	2	2	2	0	1	0	
2	-1	0	-1	2	0	1	1	2	0	1	2	1	1	0	1	2	1	2	2	1	2	2	1	1	0	0	
3	2	3	2	3	2	2	2	3	3	3	-1	2	2	2	3	2	2	3	2	2	3	2	2	3	3	2	
3	1	0	-1	3	0	1	0	1	1	2	3	2	3	0	3	3	1	3	3	2	2	2	2	0	3	2	
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3	2	3	2	3	2	2	2	3	3	3	-1	2	2	2	3	2	2	3	2	2	3	2	3	3	2	3	
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-2	2	1	1	0	-1	-2	-2	-1	-2	-3	0	-3	-1	-3	-2	-2	2	3	1	2	3	3	0	0	1	2	
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2	2	1	3	3	2	3	1	2	1	2	3	3	-3	3	3	3	3	3	3	3	3	3	2	2	-2	-2	
3	3	0	3	3	1	0	1	0	2	3	3	0	3	1	0	3	3	3	3	3	3	3	3	3	0	1	
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2	2	3	3	1	2	2	3	3	1	2	2	3	2	2	2	2	3	2	2	3	2	1	3	2	1	3	
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1	1	0	-3	-1	-2	-2	2	-2	1	0	1	2	0	2	0	2	0	3	0	2	2	0	-2	0	2	2	
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1	-2	1	1	2	1	1	1	2	1	1	1	1	-1	1	2	0	2	1	1	1	0	1	1	0	1	-1	
3	2	3	2	3	2	2	2	3	3	3	-1	2	2	2	3	2	2	3	2	2	3	2	3	3	2	3	
3	3	2	3	3	3	-1	3	3	3	3	3	1	3	3	2	3	3	3	3	3	3	3	3	3	3	3	
3	3	1	2	1	2	2	2	0	0	1	2	2	2	0	3	2	0	3	2	2	2	2	2	2	2	1	0
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0	3	-1	-2	-2	-2	3	1	1	1	1	3	2	1	1	2	1	2	1	2	3	3	3	1	1	0	0	
2	2	1	2	2	1	2	-1	0	1																		



Results

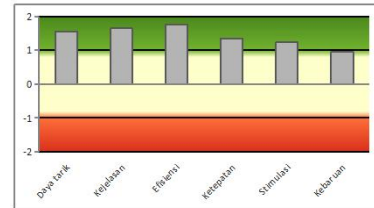
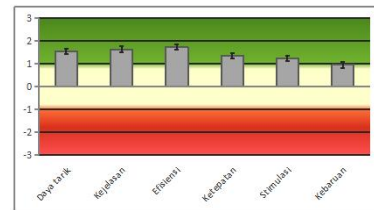
You can interpret the means of the scales. The UEQ does not produce an overall score for the user experience (you need to use the KPI extension for this). Because of the construction of the questionnaire it does make no sense to built such an overall score (for example by calculating the mean over all scales), since this value can not be interpreted properly. The values for the single items are listed to allow you to detect outliers in the evaluations. If an item shows big deviations to the evaluations of the other items of the same scale this can be a hint that the item is misinterpreted (for example, because of a special context in your evaluation) by a higher number of participants.

Values between -0.8 and 0.8 represent a more or less *neutral evaluation* of the corresponding scale, values > 0.8 represent a *positive evaluation* and values < -0.8 represent a *negative evaluation*. The range of the scales is between -3 (horribly bad) and +3 (extremely good). But in real applications, in general, only values in a restricted range will be observed. It is due to the calculation of means over a range of different persons with different opinions and answer tendencies (for example the avoidance of extreme answer categories) extremely unlikely to observe values above +2 or below -2.

Thus, even a quite good value of +1.5 for a scale looks from the purely visual standpoint on a scale range of -3 to +3 not as positive as it really is. For this reason this sheet contains two variants for the figure that depicts the scale means. Use the figure with the reduced scale -2 to +2 if you communicate the results to persons that have not much knowledge on the interpretation of this type of data and in situations where you don't want to explain in detail how building mean values and answer tendencies influence the observed data.

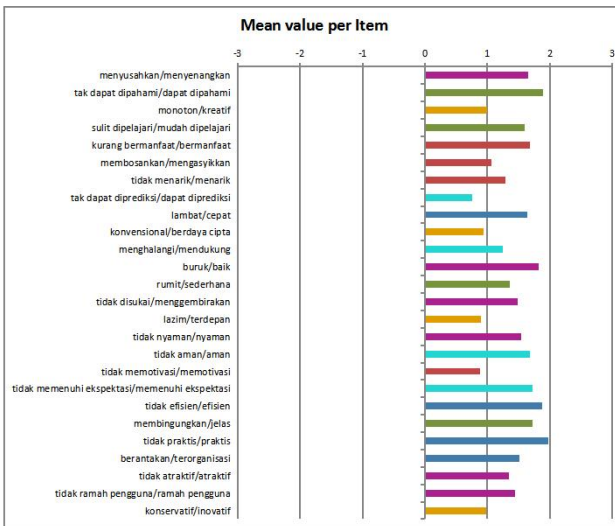
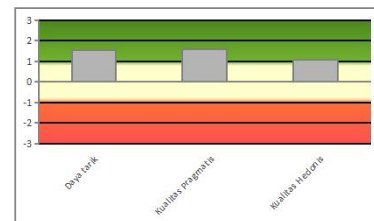
Item	Mean	Variance	Std. Dev.	No.	Left	Right	Scale
1	1.6	2.0	1.4	306	menyusahkan	menyenangkan	Daya tarik
2	1.9	1.6	1.3	306	tak dapat dipahami	dapat dipahami	Kejelasan
3	1.0	2.4	1.5	306	monoton	monoton	Kebaruan
4	1.6	2.2	1.5	306	mudah dipelajari	sulit dipelajari	Kejelasan
5	1.7	2.1	1.4	306	bermanfaat	kurang bermanfaat	Stimulasi
6	1.1	1.5	1.2	306	membosankan	mengasyikkan	Stimulasi
7	1.3	1.7	1.3	306	tidak menarik	menarik	Stimulasi
8	0.8	2.0	1.4	306	tak dapat diprediksi	dapat diprediksi	Ketepatan
9	1.6	1.8	1.3	306	cepat	lambat	Efisiensi
10	0.9	2.5	1.6	306	berdaya cipta	konvensional	Kebaruan
11	1.2	1.8	1.4	306	menghalangi	mendukung	Ketepatan
12	1.8	1.9	1.4	306	baik	buruk	Daya tarik
13	1.4	2.3	1.5	306	rumit	sederhana	Kejelasan
14	1.5	1.8	1.3	306	tidak disukai	menggembirakan	Daya tarik
15	0.9	2.1	1.4	306	lazim	terdepan	Kebaruan
16	1.5	1.7	1.3	306	tidak nyaman	nyaman	Daya tarik
17	1.7	2.1	1.4	306	aman	tidak aman	Ketepatan
18	0.9	1.6	1.3	306	memotivasi	tidak memotivasi	Stimulasi
19	1.7	1.9	1.4	306	memenuhi ekspektasi	tidak memenuhi ekspektasi	Ketepatan
20	1.9	1.7	1.3	306	tidak efisien	efisien	Efisiensi
21	1.7	1.7	1.3	306	tidak jelas	membingungkan	Kejelasan
22	2.0	1.1	1.1	306	tidak praktis	praktis	Efisiensi
23	1.5	2.6	1.6	306	terorganisasi	berantakan	Efisiensi
24	1.3	1.9	1.4	306	atraktif	tidak atraktif	Daya tarik
25	1.4	1.7	1.3	306	ramah pengguna	tidak ramah pengguna	Daya tarik
26	1.0	2.3	1.5	306	konservatif	inovatif	Kebaruan

UEQ Scales (Mean and Variance)		
Daya tarik	1.546	1.24
Kejelasan	1.642	1.15
Efisiensi	1.752	1.14
Ketepatan	1.353	0.91
Stimulasi	1.230	1.06
Kebaruan	0.953	1.44



Pragmatic and Hedonic Quality	
Daya tarik	1.55
Kualitas Pragmatis	1.58
Kualitas Hedonis	1.09

The scales of the UEQ can be grouped into pragmatic quality (Perspicuity, Efficiency, Dependability) and hedonic quality (Stimulation, Originality). Pragmatic quality describes task related quality aspects, hedonic quality the non-task related quality aspects. Below the mean of the three pragmatic and hedonic quality aspects is calculated.





Confidence intervals for items and scales

Here the 5% confidence intervals for the scale means and the means of the single items are shown. The confidence interval is a measure for the precision of the estimation of the scale mean. The smaller the confidence interval is, the higher is the precision of the estimation and the more you can trust your results. The width of the confidence interval depends on the number of available data and on how consistently the persons judged the evaluated product. The more consistent their opinion is the smaller is the confidence interval. The work sheet *Sample_Size* helps you to decide how many data you would need to achieve a certain width of the confidence interval.

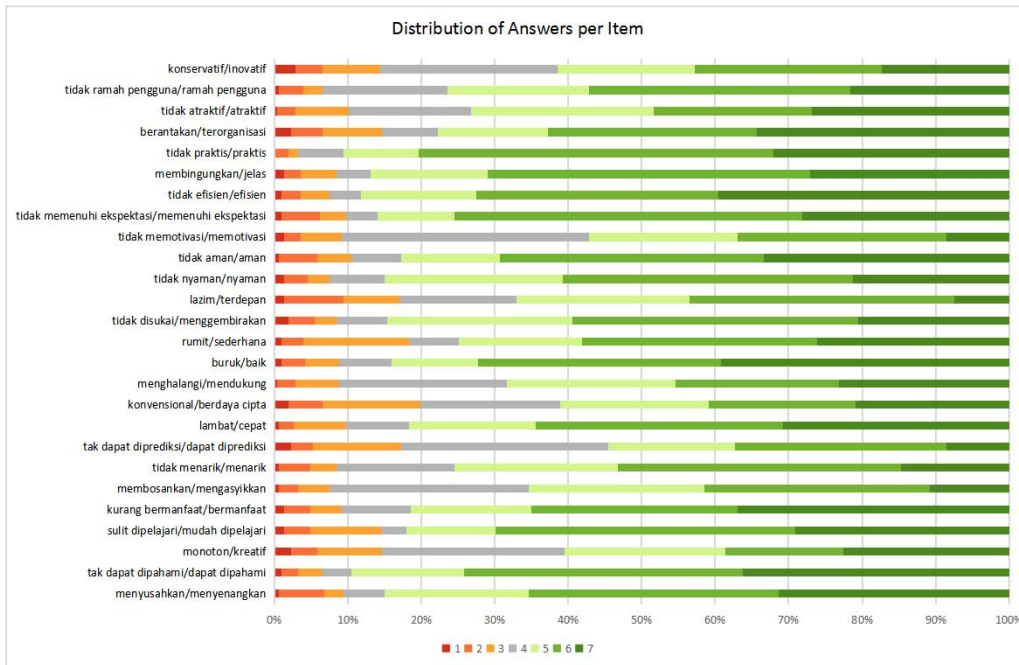
Confidence interval (p=0.05) per item						
Item	Mean	Std. Dev.	N	Confidence	Confidence interval	
1	1,647	1,416	306	0,159	1,488	1,806
2	1,892	1,254	306	0,140	1,752	2,033
3	0,987	1,536	306	0,172	0,815	1,159
4	1,601	1,475	306	0,165	1,436	1,767
5	1,680	1,449	306	0,162	1,517	1,842
6	1,062	1,233	306	0,138	0,924	1,200
7	1,294	1,298	306	0,145	1,149	1,440
8	0,755	1,403	306	0,157	0,598	0,912
9	1,637	1,349	306	0,151	1,486	1,788
10	0,944	1,579	306	0,177	0,768	1,121
11	1,248	1,359	306	0,152	1,096	1,401
12	1,814	1,396	306	0,156	1,657	1,970
13	1,359	1,520	306	0,170	1,189	1,530
14	1,487	1,343	306	0,151	1,336	1,637
15	0,902	1,436	306	0,161	0,741	1,063
16	1,536	1,288	306	0,144	1,392	1,680
17	1,683	1,435	306	0,161	1,522	1,844
18	0,886	1,261	306	0,141	0,744	1,027
19	1,725	1,375	306	0,154	1,571	1,880
20	1,882	1,315	306	0,147	1,735	2,030
21	1,716	1,293	306	0,145	1,571	1,861
22	1,977	1,051	306	0,118	1,859	2,095
23	1,513	1,598	306	0,179	1,334	1,692
24	1,350	1,383	306	0,155	1,195	1,505
25	1,441	1,305	306	0,146	1,295	1,587
26	0,977	1,518	306	0,170	0,807	1,147

Confidence intervals (p=0.05) per scale						
Scale	Mean	Std. Dev.	N	Confidence	Confidence interval	
Daya tarik	1,546	1,113	306	0,125	1,421	1,670
Kejelasan	1,642	1,074	306	0,120	1,522	1,762
Efisiensi	1,752	1,066	306	0,119	1,633	1,872
Ketepatan	1,353	0,954	306	0,107	1,246	1,460
Stimulasi	1,230	1,031	306	0,115	1,115	1,346
Kebaruhan	0,953	1,199	306	0,134	0,818	1,087

Distribution of Answers per Item

Here you can see the distribution of answers to the single items. If there are items that show a polarization in the answers (many negative and many positive judgements and not much neutral judgements) may help to get deeper insights concerning aspects of the product that are experienced as quite positive by one subgroup of participants and quite negative by another subgroup.

Nr	Item	1	2	3	4	5	6	7	Scale
1	menyusahkan/menyenangkan	2	19	8	17	60	104	96	Daya tarik
2	tak dapat dipahami/dapat dipahami	3	7	10	12	47	116	111	Kejelasan
3	monoton/kreatif	7	11	27	76	67	49	69	Kebaruan
4	sulit dipelajari/mudah dipelajari	4	11	30	10	37	125	89	Kejelasan
5	kurang bermanfaat/bermanfaat	4	11	13	29	50	86	113	Stimulasi
6	membosankan/mengasyikkan	2	8	13	83	73	94	33	Stimulasi
7	tidak menarik/menarik	2	13	11	49	68	118	45	Stimulasi
8	tak dapat diprediksi/dapat diprediksi	7	9	37	86	53	88	26	Ketepatan
9	lambat/cepat	2	6	22	26	53	103	94	Efisiensi
10	konvensional/berdaya cipta	6	14	41	58	62	61	64	Kebaruan
11	menghalangi/mendukung	1	8	18	70	70	68	71	Ketepatan
12	buruk/baik	3	10	14	22	36	101	120	Daya tarik
13	rumit/serdhana	3	9	44	21	51	98	80	Kejelasan
14	tidak disukai/menggembirakan	6	11	9	21	77	119	63	Daya tarik
15	lazim/terdepan	4	25	23	49	72	110	23	Kebaruan
16	tidak nyaman/nyaman	4	10	9	23	74	121	65	Daya tarik
17	tidak aman/aman	2	16	14	21	41	110	102	Ketepatan
18	tidak memotivasi/memotivasi	4	7	17	103	62	87	26	Stimulasi
19	tidak memenuhi ekspektasi/memenuhi ekspektasi	3	16	11	13	32	145	86	Ketepatan
20	tidak efisien/efisien	3	8	12	13	48	101	121	Efisiensi
21	membingungkan/jelas	4	7	15	14	49	134	83	Kejelasan
22	tidak praktis/praktis	0	6	4	19	31	148	98	Efisiensi
23	berantakan/terorganisasi	7	13	25	23	46	87	105	Efisiensi
24	tidak atraktif/atraktif	1	8	22	51	76	66	82	Daya tarik
25	tidak ramah pengguna/ramah pengguna	2	10	8	52	59	109	66	Daya tarik
26	konservatif/inovatif	9	11	24	74	57	78	53	Kebaruan



Correlations of the items per scale and reliability coefficients

Items that belong to the same scale should show in general a high correlation.

Here you can find the correlations of the items in a scale and some common coefficients, Cronbachs Alpha and Guttman's Lambda2, that are typically used to estimate reliability of a scale.

Cronbachs Alpha-Coefficient

The Alpha-Coefficient (Cronbach, 1951) is a measure for the consistency of a scale. There is no generally accepted rule how big the value of the coefficient should be. Many authors assume that a scale should show an alpha value > 0.7 to be considered as sufficiently consistent, but these suggestions are more rules-of-thumb and not based on some sound statistical facts. Thus, from an methodological standpoint such a use of a cut-off criterium is not really well-founded (see for example Schmitt, N., 1996). Especially if you have only a small sample (for example less than 50 answers) the value of the Alpha-Coefficient should be interpreted very carefully. In such cases a low Alpha can result from sampling errors and may not be an indicator for a problem with the scale.

If the value of the Alpha-Coefficient for a scale shows a massive deviation from a reasonable target value, for example 0.6 or 0.7, this can be a hint that some items of the scale are in the given context interpreted by several participants in an unexpected way. In such cases please check the single item scores and correlations between the items. This can give a hint if there is maybe a common misinterpretation of an item due to the context of the evaluation. In such cases the corresponding scale should be interpreted very carefully. The 5% confidence interval for the Alpha coefficient is calculated accordingly to Bonnett, D.B. (2002), Sample Size Requirements for Testing and Estimating Coefficient Alpha, Journal of Educational and Behavioral Statistics, 27(4), 335-340.

Daya tarik	
Items	Correlation
1, 12	0,52
1, 14	0,55
1, 16	0,56
1, 24	0,57
1, 25	0,55
12, 14	0,72
12, 16	0,66
12, 24	0,62
12, 25	0,65
14, 16	0,80
14, 24	0,58
14, 25	0,62
16, 24	0,49
16, 25	0,58
24, 25	0,69
Average	0,61
Alpha	0,90
Conf. Int.	0,89
Alpha (5%)	0,92

Kejelasan	
Items	Correlation
2, 4	0,50
2, 13	0,49
2, 21	0,51
4, 13	0,37
4, 21	0,54
13, 21	0,40
Average	0,47
Alpha	0,78
Conf. Int.	0,74
Alpha (5%)	0,82

Efisiensi	
Items	Correlation
9, 20	0,59
9, 22	0,43
9, 23	0,41
20, 22	0,66
20, 23	0,61
22, 23	0,45
Average	0,53
Alpha	0,82
Conf. Int.	0,78
Alpha (5%)	0,85

Ketepatan	
Items	Correlation
8, 11	0,12
8, 17	0,16
8, 19	0,06
11, 17	0,38
11, 19	0,40
17, 19	0,63
Average	0,29
Alpha	0,62
Conf. Int.	0,55
Alpha (5%)	0,69

Stimulasi	
Items	Correlation
5, 6	0,37
5, 7	0,43
5, 18	0,42
6, 7	0,81
6, 18	0,49
7, 18	0,46
Average	0,50
Alpha	0,80
Conf. Int.	0,76
Alpha (5%)	0,83

Kebaruan	
Items	Correlation
3, 10	0,59
3, 15	0,42
3, 26	0,38
10, 15	0,57
10, 26	0,56
15, 26	0,47
Average	0,50
Alpha	0,80
Conf. Int.	0,76
Alpha (5%)	0,83

Guttman's Lambda2 coefficient

Another coefficient often reported as a measure of reliability of a scale is Guttman's Lambda2 coefficient. Lambda2 is a better approximation of reliability than Cronbach's Alpha (both are a lower bound for the real reliability of a scale). The coefficient Lambda1 also computed here is mainly needed for computing Lambda2.

NOTE: Theoretically, Lambda2 is higher than Alpha, but due to some rounding errors in the computation, it can happen that the Excel-Sheet shows some violations of this!

Daya tarik	
Lambda1	0,75260142
Items	Covar^2
1, 12	1,03
1, 14	1,08
1, 16	1,05
1, 24	1,23
1, 25	1,02
12, 14	1,80
12, 16	1,40
12, 24	1,45
12, 25	1,40
14, 16	1,90
14, 24	1,16
14, 25	1,16
16, 24	0,75
16, 25	0,95
24, 25	1,56
Sum	18,94
Lambda2	0,90

Kejelasan	
Lambda1	0,5808892
Items	Covar^2
2, 4	0,87
2, 13	0,87
2, 21	0,69
4, 13	0,70
4, 21	1,06
13, 21	0,63
Sum	4,82
Lambda2	0,78

Efisiensi	
Lambda1	0,60378597
Items	Covar^2
9, 20	1,11
9, 22	0,37
9, 23	0,77
20, 22	0,83
20, 23	1,63
22, 23	0,56
Sum	5,26
Lambda2	0,81

Ketepatan	
Lambda1	0,4664703
Items	Covar^2
8, 11	0,05
8, 17	0,11
8, 19	0,01
11, 17	0,53
11, 19	0,55
17, 19	1,54
Sum	2,79
Lambda2	0,65

#N/A	
Lambda1	0,59434547
Items	Covar^2
5, 6	0,44
5, 7	0,64
5, 18	0,60
6, 7	1,65
6, 18	0,57
7, 18	0,57
Sum	4,47
Lambda2	0,80

Kebaruan	
Lambda1	0,58983035
Items	Covar^2
3, 10	2,03
3, 15	0,85
3, 26	0,78
10, 15	1,64
10, 26	1,78
15, 26	1,04
Sum	8,11
Lambda2	0,80

Benchmark

The measured scale means are set in relation to existing values from a benchmark data set. This data set contains data from 21175 persons from 468 studies concerning different products (business software, web pages, web shops, social networks).

The comparison of the results for the evaluated product with the data in the benchmark allows conclusions about the relative quality of the evaluated product compared to other products.

Please help to increase the data basis for the benchmark! If you use the UEQ to evaluate products it would be quite helpful for us if you will share information concerning the type of product, the number of participants in your study and the scale means. We will of course handle these information absolutely confidential and will use it solely to improve the benchmark.

Scale	Mean	Comparison to benchmark	Interpretation
Daya tarik	1,55	Above average	25% of results better, 50% of results worse
Kejelasan	1,64	Above Average	25% of results better, 50% of results worse
Efisiensi	1,75	Good	10% of results better, 75% of results worse
Ketepatan	1,35	Above Average	25% of results better, 50% of results worse
Stimulasi	1,23	Above Average	25% of results better, 50% of results worse
Kebaruan	0,95	Above Average	25% of results better, 50% of results worse

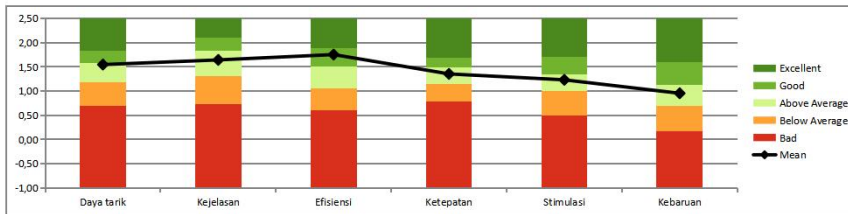


Table to create the benchmark graph (purely technical, please ignore)

Scale	Lower Border	Bad	Below Average	Above Average	Good	Excellent	Mean
Daya tarik	-1,00	0,69	0,49	0,4	0,26	0,66	1,55
Kejelasan	-1,00	0,72	0,58	0,53	0,27	0,5	1,64
Efisiensi	-1,00	0,6	0,45	0,45	0,38	0,62	1,75
Ketepatan	-1,00	0,78	0,36	0,34	0,21	0,81	1,35
Stimulasi	-1,00	0,5	0,5	0,35	0,35	0,8	1,23
Kebaruan	-1,00	0,16	0,54	0,42	0,48	0,9	0,95

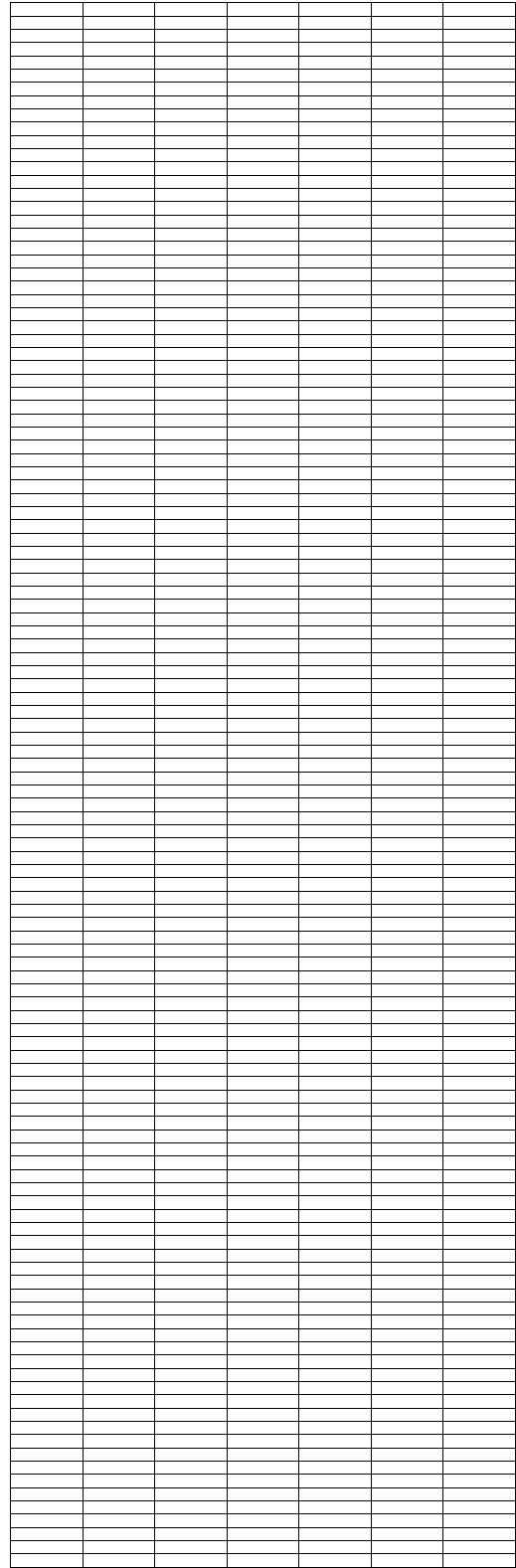
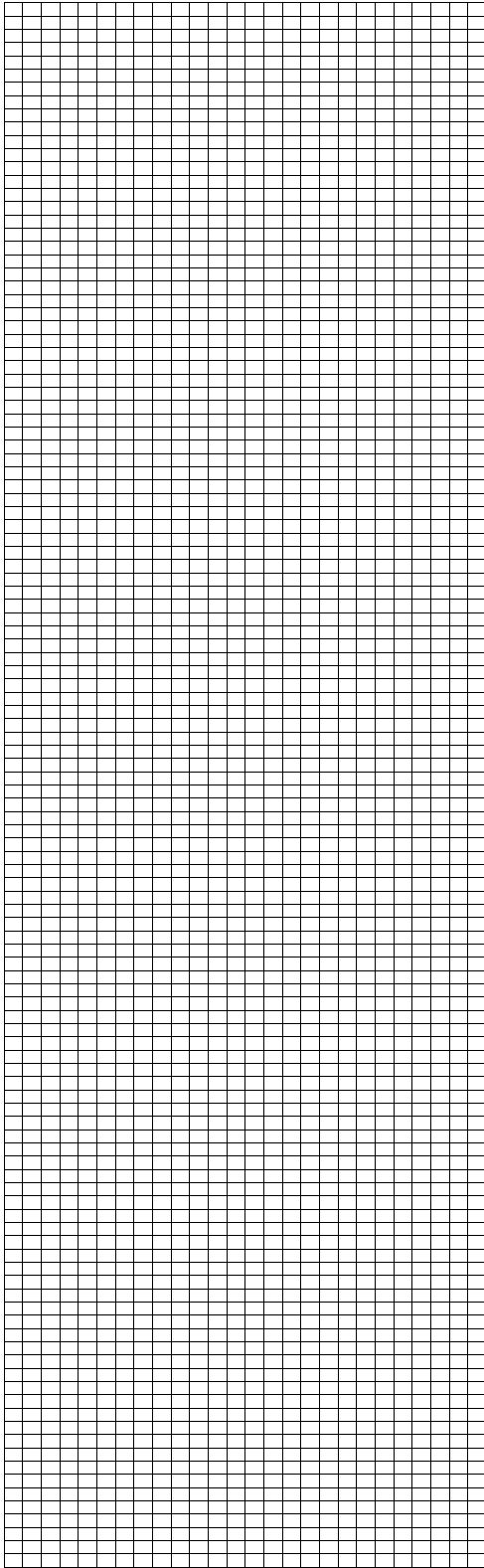
Detect Suspicious Data

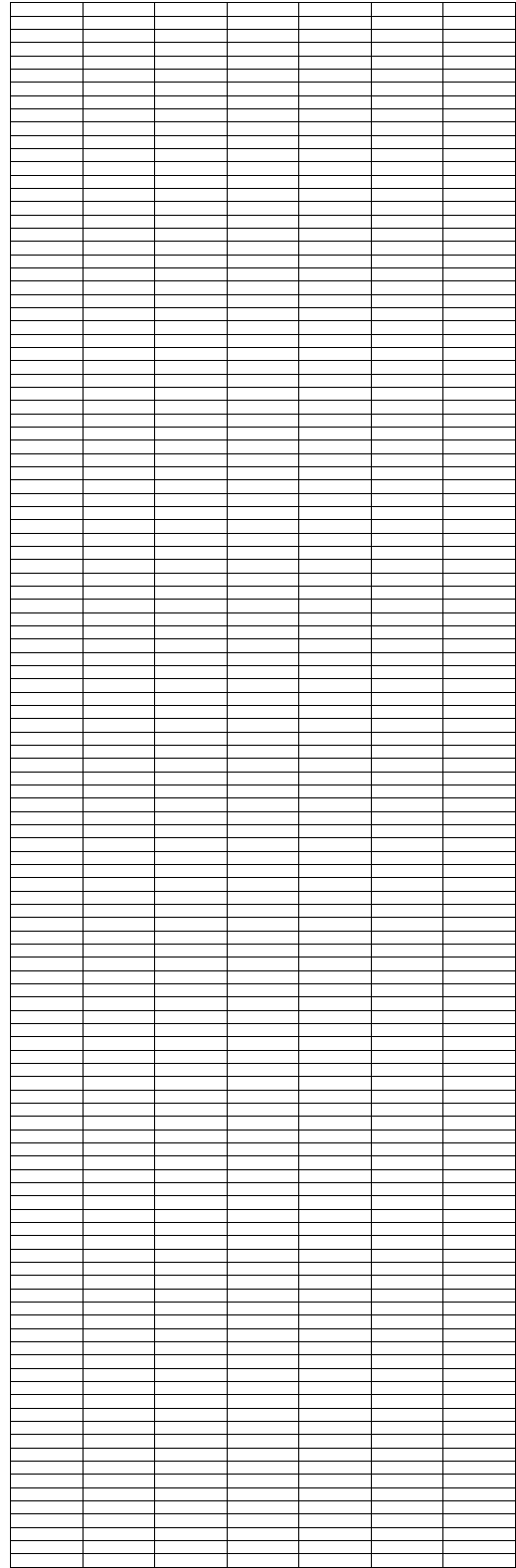
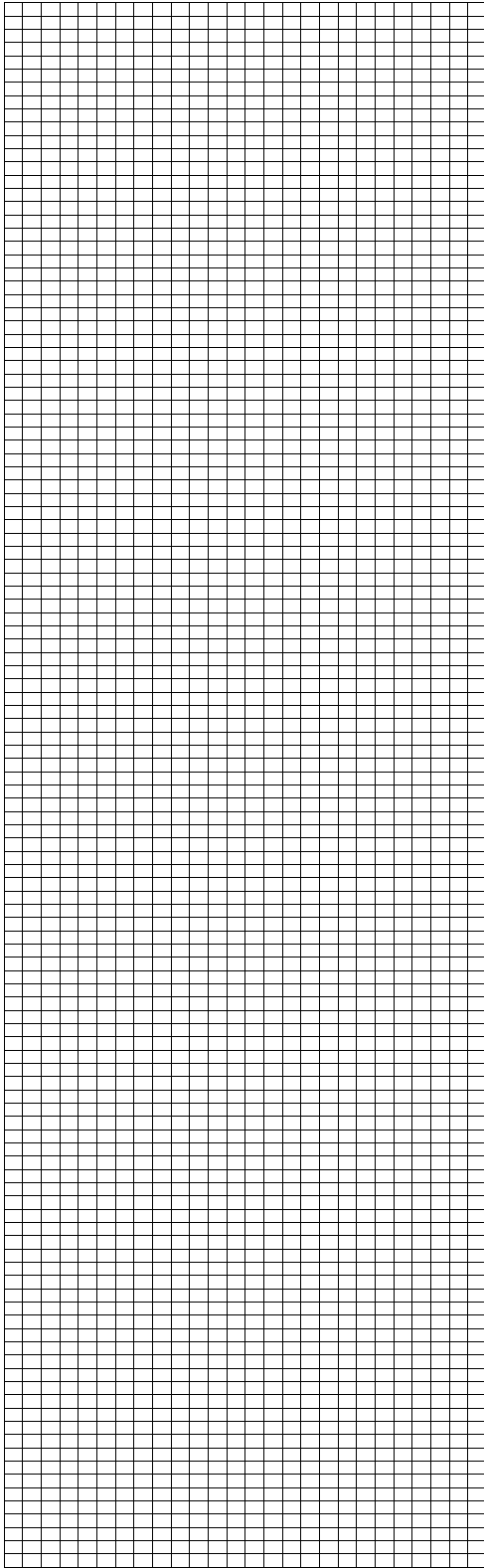
Especially if the UETQ is applied as an Online-Questionnaire not all participants will answer all items seriously. To detect such more or less random or not serious answers, a simple heuristic is used. All items in a scale should measure a similar UX quality aspect. The idea to detect random or not serious answers is to check how much the best and worst evaluation of an item in a scale differs. If there is a big difference (>3) this is seen as an indicator for a problematic data pattern. Of course such situations can also result from random response errors or a misunderstanding of an item. Thus, it makes no sense to consider a response as problematic if this occurs just for a single scale. But if this is true for 2 or 3 scales this is of course a clear hint that the response is somehow suspicious. The table below shows the responses coded from -3 to 3. The table next to it shows for each scale if there is a difference >3 between the best and worst item. The Critical? column shows for how many scales this is the case. We suggest to remove answers from the data set that shows a value of 3 or higher in the Critical? column.

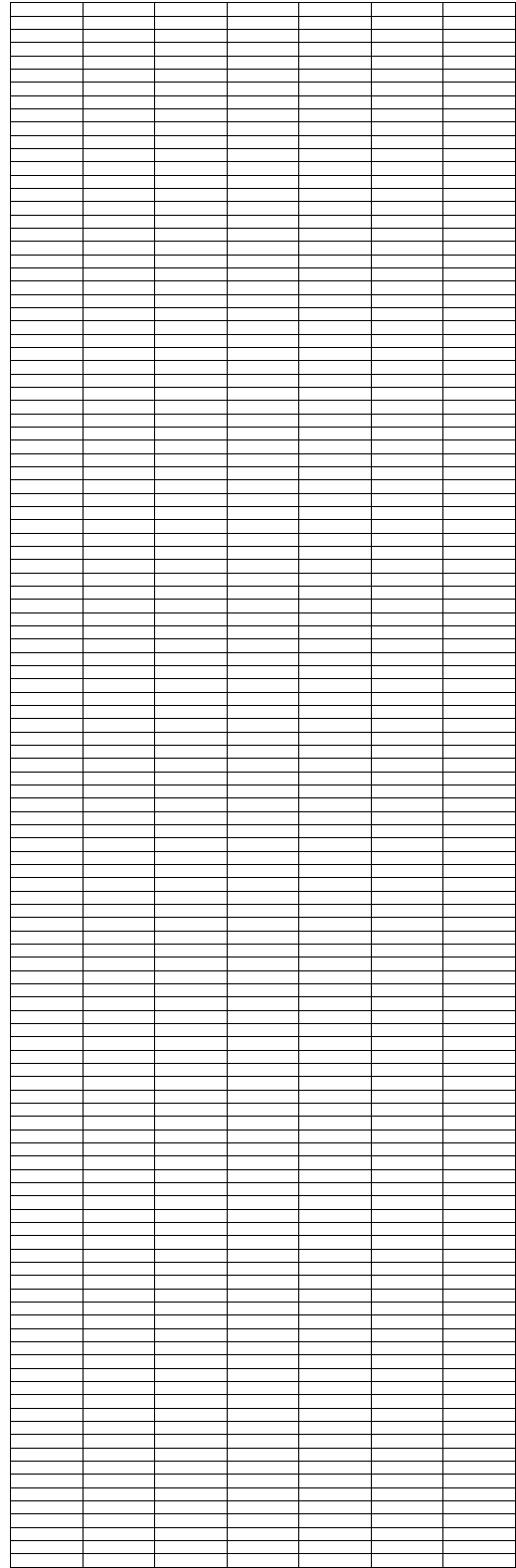
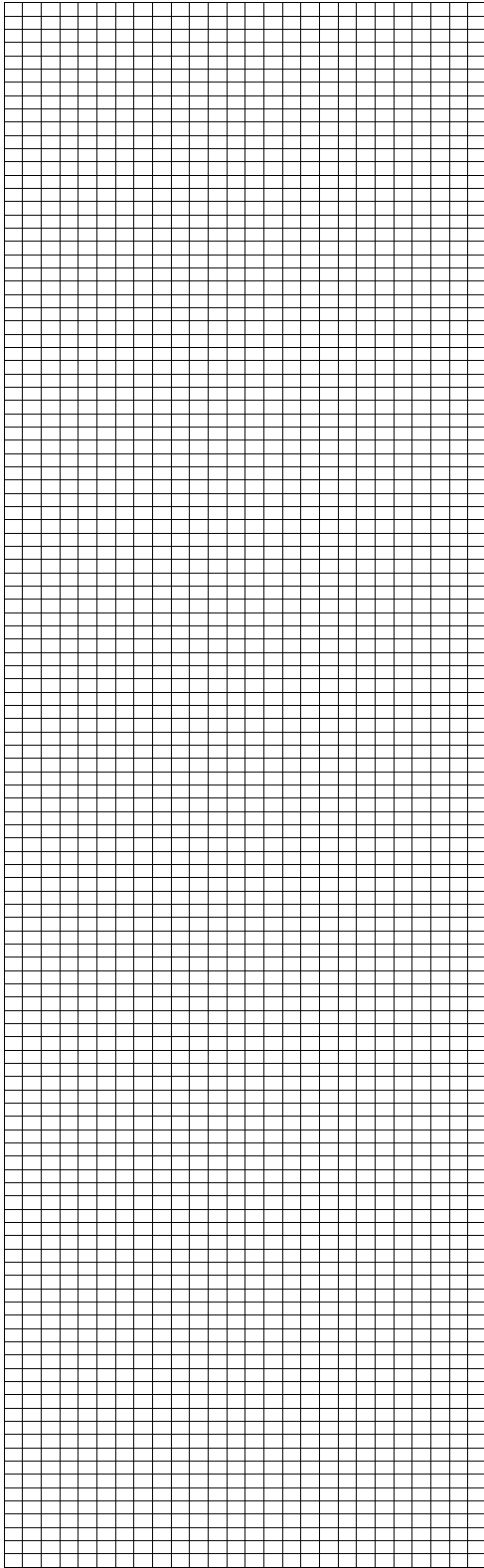
Items																													
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
2	3	2	3	2	2	2	2	2	1	2	2	1	2	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	
3	2	3	2	3	2	2	2	3	3	3	-1	2	2	2	3	2	2	2	3	2	2	3	3	2	3	3	2	3	
3	3	2	3	1	2	-2	-2	1	3	1	2	2	-2	2	1	2	2	-2	1	2	2	1	-2	2	1	1	2	2	
-2	2	0	2	1	0	0	2	2	1	1	3	3	1	2	2	3	0	3	3	3	2	2	0	1	0	1	0	0	
2	-1	0	-1	2	0	1	1	2	0	1	2	1	1	0	1	2	1	2	2	1	2	2	1	1	1	0	0	0	
3	2	3	2	3	2	2	2	3	3	3	-1	2	2	2	3	2	2	3	2	2	3	2	2	3	3	2	3	3	
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-1	-1	-3	-3	-3	-3	0	0	-3	0	0	-3	-3	-3	-3	0	0	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	0	
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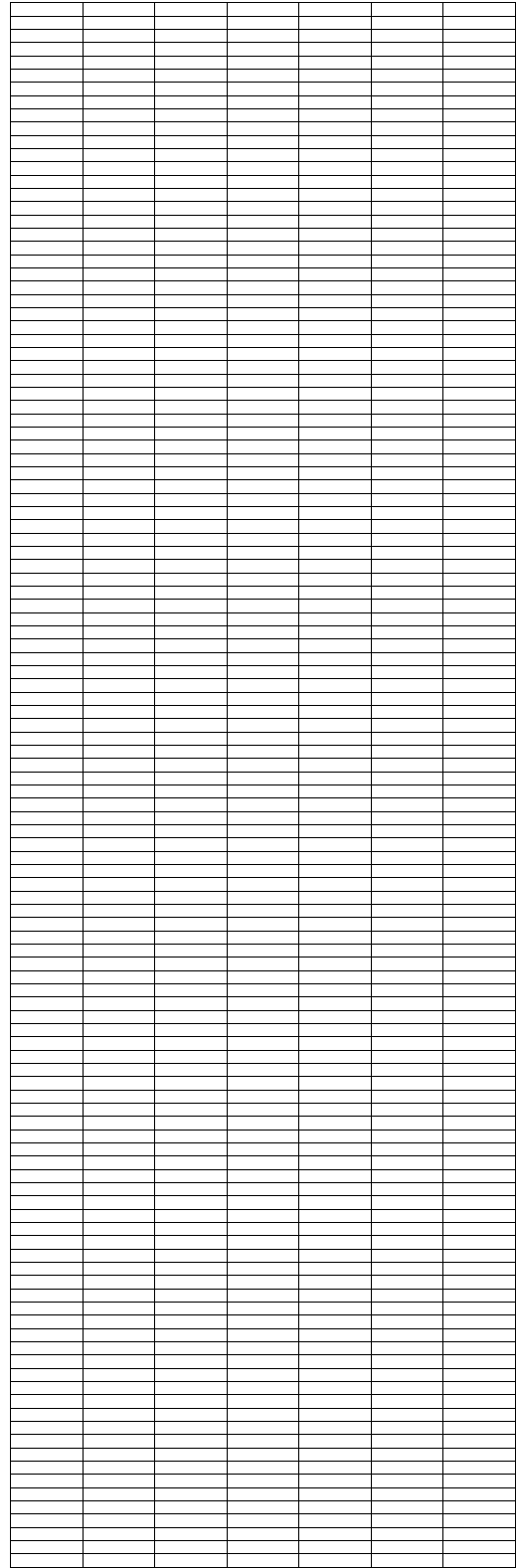
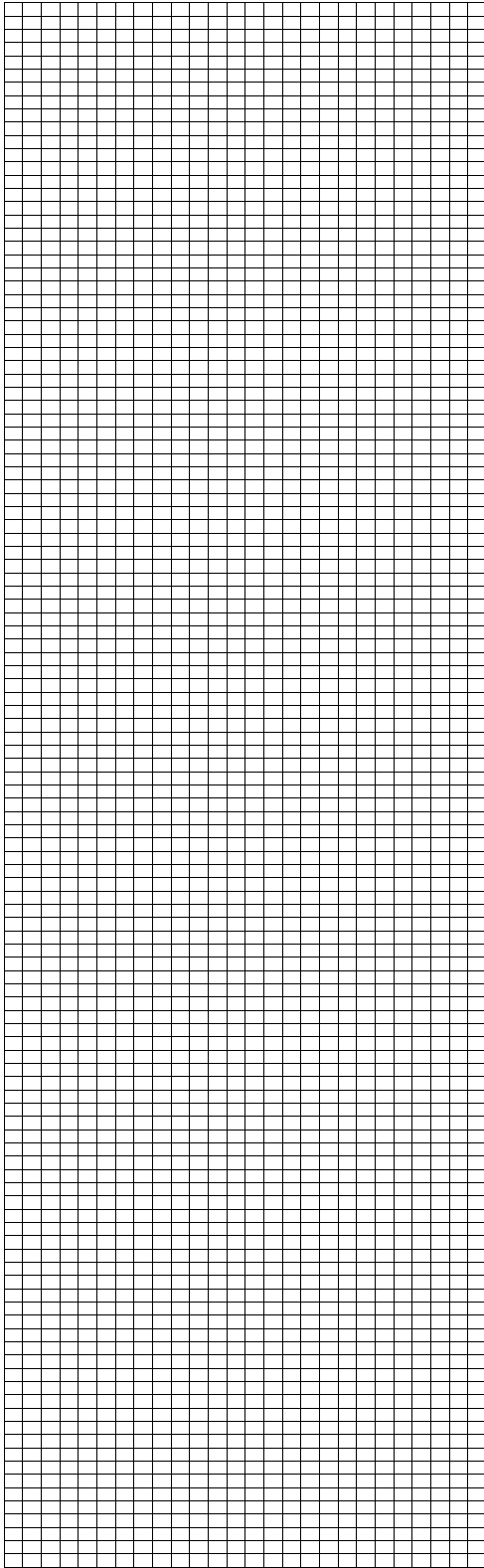
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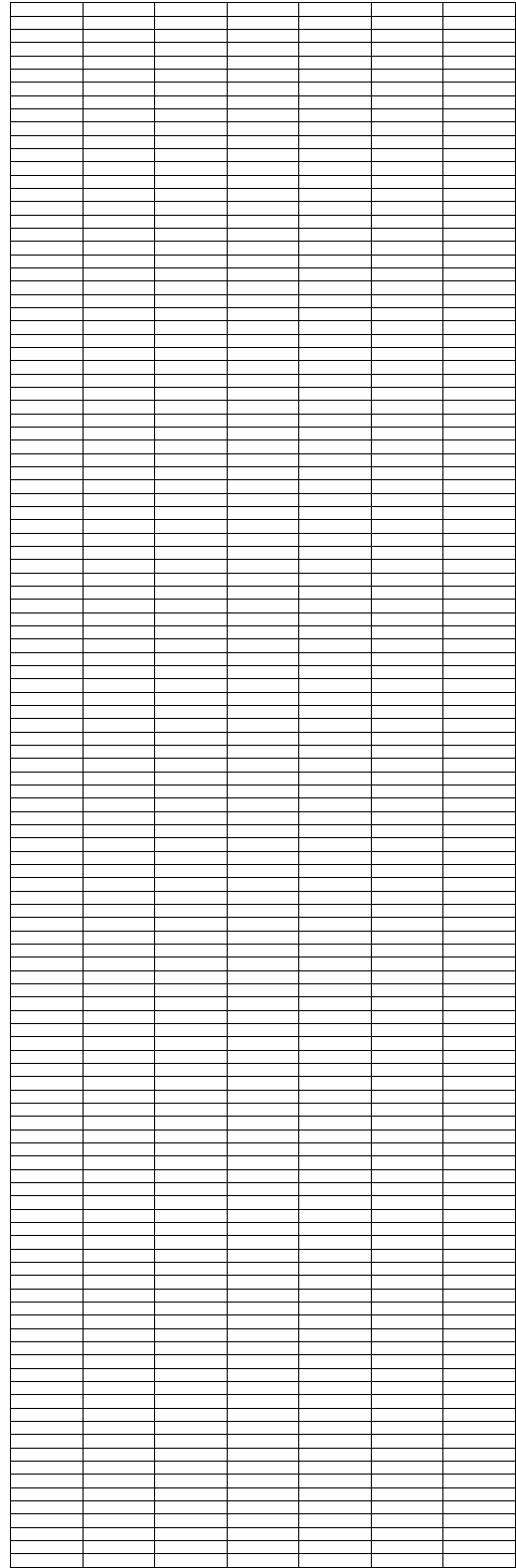
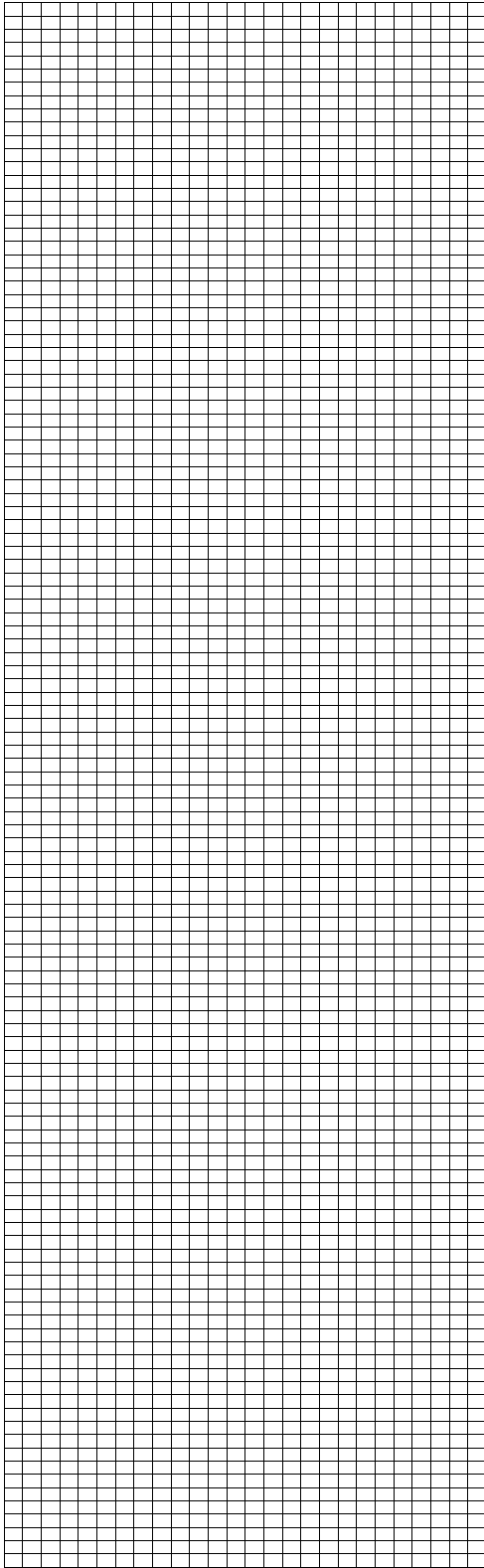
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-2	3	0	3	0	0	3	3	-1	0	2	3	1	-2	1	2	0	2	3	2	3	2	0	0	1
2	2	2	2	1	2	1	1	2	2	2	2	2	2	0	2	2	2	2	2	2	2	1	2	2
-1	-1	1	0	0	0	-1	-1	0	1	0	1	0	1	0	-1	0	-1	0	-1	0	-3	0	0	1
3	3	3	3	3	3	3	-3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
3	2	3	2	3	3	0	2	3	3	3	2	3	2	3	1	0	3	3	3	3	3	3	3	3
2	1	1	2	2	2	-1	2	0	1	2	2	2	2	2	2	0	3	2	2	2	2	2	2	2
3	2	3	2	2	2	3	3	3	-1	2	2	2	2	2	3	2	2	3	2	2	3	3	2	3
3	2	3	2	2	2	3	3	3	-1	2	2	2	2	2	3	2	2	3	2	2	3	3	2	3
2	1	1	2	1	1	1	2	1	-1	-2	2	2	-2	-2	2	0	2	1	1	2	2	2	1	0
1	3	0	3	3	1	1	2	3	1	1	3	3	1	3	3	2	3	3	3	3	3	3	0	0
2	3	1	2	1	2	2	0	2	1	1	2	3	2	1	1	2	0	1	1	2	2	2	2	0
-2	3	0	3	0	0	3	3	-1	0	2	3	1	-2	1	2	0	2	3	2	3	2	0	0	1
1	2	1	1	1	0	0	2	-1	0	1	1	0	-1	1	1	-2	2	1	-2	1	1	1	1	2
-2	3	1	2	0	0	2	0	2	2	2	2	1	0	1	-2	0	-2	2	2	2	2	1	2	2
2	1	0	2	3	2	3	-2	3	3	0	-1	2	0	2	2	0	3	3	3	-1	1	0	2	
2	3	1	2	2	0	0	2	2	2	2	2	1	0	1	-2	0	-2	2	2	2	2	1	2	2
2	2	2	2	1	2	1	1	2	2	2	2	2	2	2	0	2	2	2	2	2	2	1	2	2
-2	3	0	3	0	0	3	3	-1	0	2	3	1	-2	1	2	0	2	3	2	3	2	0	0	1
3	2	3	2	3	2	2	3	3	3	-1	2	2	2	2	3	2	2	3	2	2	3	3	2	3
3	2	3	2	3	2	2	3	3	3	-1	2	2	2	2	3	2	2	3	2	2	3	3	2	3
-1	2	0	2	2	0	1	2	0	1	2	2	2	0	2	0	2	0	3	3	3	-1	1	0	2
2	1	1	2	1	1	1	2	1	-1	-2	2	2	-2	-2	2	0	2	1	1	2	2	2	1	0
2	1	1	2	2	-1	2	0	1	2	2	2	2	2	2	0	3	2	2	2	2	2	2	2	2
1	3	0	3	3	1	1	2	3	1	1	3	3	1	3	3	2	3	3	3	3	3	3	0	0
3	3	3	3	3	3	-3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
2	1	1	2	1	1	1	2	1	-1	-2	2	2	-2	-2	2	0	2	1	1	2	2	2	1	0
3	2	3	2	3	2	2	3	3	3	-1	2	2	2	2	3	2	2	3	2	2	3	3	2	3
-2	3	0	3	0	0	3	3	-1	0	2	3	1	-2	1	2	0	2	3	2	3	2	0	0	1
3	2	3	2	3	2	2	3	3	3	-1	2	2	2	2	3	2	2	3	2	2	3	3	2	3
2	1	1	2	2	-1	2	0	1	2	2	2	2	2	2	2	0	3	2	2	2	2	2	2	2
1	3	0	3	3	1	1	2	3	1	1	3	3	1	3	3	2	3	3	3	3	3	3	0	0
3	3	3	3	3	3	3	-3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
2	1	1	2	1	1	1	2	1	-1	-2	2	2	-2	-2	2	0	2	1	1	2	2	2	1	0
3	2	3	2	3	2	2	3	3	3	-1	2	2	2	2	3	2	2	3	2	2	3	3	2	3
-2	3	0	3	0	0	3	3	-1	0	2	3	1	-2	1	2	0	2	3	2	3	2	0	0	1
3	2	3	2	3	2	2	3	3	3	-1	2	2	2	2	3	2	2	3	2	2	3	3	2	3
2	2	2	2	1	2	1	1	2	2	2	2	2	2	2	0	2	2	2	2	2	2	1	2	2
-2	3	0	3	0	0	3	3	-1	0	2	3	1	-2	1	2	0	2	3	2	3	2	0	0	1
3	2	3	2	3	2	2	3	3	3	-1	2	2	2	2	3	2	2	3	2	2	3	3	2	3
3	2	3	2	3	2	2	3	3	3	-1	2	2	2	2	3	2	2	3	2	2	3	3	2	3
2	1	1	2	2	-1	2	0	1	2	2	2	2	2	2	0	3	2	2	2	2	2	2	2	2
1	3	0	3	3	1	1	2	3	1	1	3	3	1	3	3	2	3	3	3	3	3	3	0	0
3	3	3	3	3	3	3	-3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
2	1	1	2	1	1	1	2	1	-1	-2	2	2	-2	-2	2	0	2	1	1	2	2	2	1	0
3	2	3	2	3	2	2	3	3	3	-1	2	2	2	2	3	2	2	3	2	2	3	3	2	3
-2	3	0	3	0	0	3	3	-1	0	2	3	1	-2	1	2	0	2	3	2	3	2	0	0	1</











Sample size to reach a certain precision concerning the estimated scale means

If you have not many data points the error bars for the scale means in the Results Tab can be quite big. The error bars show the area (confidence interval) in which the true value of the scale mean should be located with a 95% probability. Thus, big error bars stand for a not very precise measurement.

A natural question is thus to ask, how many person you need (i.e. how big your sample should be) if you want to measure the scale means with a certain precision. This tab tries to answer this question.

For a given precision E (deviation between true scale mean in the population and the estimated scale mean from the sample) the required sample size depends on the standard deviation of the scale value in the population (the smaller this is the higher is the agreement between different persons and thus the less persons you need to ask) and the chance (error probability) P you still accept that the true scale mean is outside the area described by the error bars (i.e. it will be with a probability 1-P inside the confidence interval).

Of course the standard deviation of the scale value in the population is not known. For the data in this tab we estimate this value from the standard deviation of the already entered data. Thus, if you enter more data the estimation of this value and thus the values in the table below will change!!

The following table shows for typical values of E and P the required sample size. Please note that these are just rough estimations to give you an idea on how many data you need to achieve an accurate measurement!

Scale	Standard Deviation
Daya tarik	1,11
Kejelasan	1,07
Efisiensi	1,07
Ketepatan	0,95
Stimulasi	1,03
Kebaruan	1,20

Condition	Daya tarik	Kejelasan	Efisiensi	Ketepatan	Stimulasi	Kebaruan
Precision=0.5, Err.Prob.=0.1	13	13	12	10	12	16
Precision=0.5, Err.Prob.=0.05	19	18	17	14	16	22
Precision=0.5, Err.Prob.=0.01	33	31	30	24	28	38
Precision=0.25, Err.Prob.=0.1	54	50	50	40	46	63
Precision=0.25, Err.Prob.=0.05	76	71	70	56	65	88
Precision=0.25, Err.Prob.=0.01	132	123	121	97	113	153
Precision=0.1, Err.Prob.=0.1	337	314	309	248	289	391
Precision=0.1, Err.Prob.=0.05	476	443	437	350	408	552
Precision=0.1, Err.Prob.=0.01	825	767	757	606	707	956

Language	L1	R1	L2
German	unerfreulich	erfreulich	unverständlich
English	annoying	enjoyable	not understandable
Spanish	desagradable	agradable	no entendible
Portuguese	Desagradável	Agradável	Incompreensível
Turkish	can sıkıcı	sevindirici	anlaşılmaz
French	Agaçant	Agréable	Incompréhensible
Italian	incresioso	gradito	incomprensibile
Russian	неприятный	доставляет удовольствие	непонятный
Chinese	令人不快的	令人愉快的	费解的
Japanese	楽しくない	楽しい	わかりにくい
Indonesian	menyusahkan	menyenangkan	tak dapat dipahami
Dutch	onplezierig	plezierig	onbegrijpelijk
Estonian	vastumeelne	rõõmupakkuv	arusaamatu
Slovene	nerazveseljiv	razveseljiv	nerazumljiv
Swedish	Irriterande	Njutbar	Obegriplig
Greek	ενοχλητικό	απολαυστικό	δυσνόητο
Polish	irytujący	przyjemny	niezrozumiały
Hindi	कष्टप्रद	मनोरंजक	समझ में आता है
Bulgarian	дразнещ	приятен	неразбираем
Czech	otravný	příjemný	nepochopitelný
Malay	menjengkelkan	menyeronokkan	sukar difahami
Persian	آزاردهنده	رضایت بخش	غیرقابل فهم
Thai	น่ารำคาญ	น่าสนุก	เข้าใจยาก
Danish	kedeligt	forføjeligt	uforståelige
Norwegian	kjedelig	forføyelig	uforståelig
Finnish	ärsyttävä	nautittava	vaikkeasti ymmärret
Hungarian	idegesítő	élvezetes	érthetetlen
Croatian	dosadan	zanimljiv	nerazumljivi
Bosnian	dosadan	zabavan	nerazumljivi
Hebrew	מזעזע	מגונה	איבוב מביא
Arabic	مزعج	ممتع	غير مفهوم
Bengali	বিরক্তিকর	উপভোগ্য	বোধগম্য নয়
Kannada	ಕಿರಿಕಿರಿ	ಕಿರಿಕಿರಿ	ಅರ್ಥವಾಗದ
Marathi	त्रासदायक	आनंददायक	समजू शकत नाही
Tamil	எரிச்சலூட்டுகிறது	இன்பம்	புரிந்து கொள்ள
Slovak	obťažujúci	pútavý	nepochopiteľný

R2	L3	R3	L4	R4
verständlich	kreativ	phantasielos	leicht zu lernen	schwer zu lernen
understandable	creative	dull	easy to learn	difficult to learn
entendible	creativo	sin imaginacion	facil de aprender	difícil de aprender
Compreensível	Criativo	Sem criatividade	De Fácil aprendizag	De difícil aprendizag
anlaşılır	yaratıcı	yaratıcı olmayan	kolay öğrenilir	öğrenmesi zor
Compréhensible	Moderne	Sans fantaisie	Appropriation simp	Appropriation com
comprensibile	creativo	privo di fantasia	facile da capire	difficile da capire
понятный	креативный	неизобретательный	легко освоить	трудно освоить
易懂的	富创造力的	平淡无奇的	容易学会的	难学会的
わかりやすい	創造的	創造的でない	覚えやすい	覚えにくい
dapat dipahami	kreatif	monoton	mudah dipelajari	sulit dipelajari
begrijpelijk	creatief	saai	makkelijk te leren	moeilijk te leren
arusaadav	loominguline	tavaline	kerge kasutama õp	raske kasutama õp
razumljiv	kreativen	brez fantazije	enostaven za učenj	težak za učenje
Begriplig	Kreativ	Tråkig	Lätt att lära sig	Svår att lära sig
κατανοητό	δημιουργικό	αναποτελεσματικό	εύκολο στη μάθησι	δύσκολο στη μάθησι
zrozumiały	kreatywny	nudny	łatwy do nauki	trudny do nauki
समझ में नहीं आता है	रचनात्मक	सुस्त	जानने के लिए मुश्किल	जानने के लिए आसान
разбираем	творчески	скучен	лесен за научавани	труден за научавани
pochopitelný	tvůrčí	nezáživný	jednoduchý na nau	obtížný na naučení
mudah difahami	ada kreativiti	tidak bersifat kreati	mudah dipelajari	sukar dipelajari
	قابل فهم	سازنده/خلاق	ببھودہ	یادگیری آسان
เข้าใจง่าย	สร้างสรรค์	ราบเรียบ	เรียนรู้ง่าย	เรียนรู้งยาก
forståelige	kreativ	kedelig	nemme at lære	svære at lære
forståelig	kreativ	kjedelig	lett å lære	vanskelig å lære
helposti ymmärrett luova		tylsä	helposti opittavaa	vaikeasti opittavaa
érthető	kreatív	egyhangú	könnyen elsajátítha	nehezen elsajátítha
razumljivi	kreativna	glupa	laksi za naučiti	složeni za naučiti
razumljivi	kreativni	dosadni	laksi za učenje	teški za učenje
מובן	מייצרי	מממם	ללמוד קל	ללמוד קשה
	مفهوم	إبداعية	مبتدلة	سهل التعلم
বোধগম্য	সৃষ্টিশীল	নিঃস্পন্দ	শেখাসহজ	শেখাকাঠিন
ಅರ್ಥವಾಗದ	ಕಿಯಾಶೀಲತೆ	ಕಿಯಾಶೀಲತೆ	ಕಲಿಯಲುಸುಲಭ	ಕಲಿಯಲುಸುಲಭ
समजण्यासारखा	सर्जनशील	नीरस	शिकणे सोपे	शिकणे कठीण
புரிகிறது	ஆக்கப் பூர்வம	மந்தமான	படிப்பதற்கு சு	கற்பதற்கு கடி
pochopitelný	nápaditý	tuctový	intuitívny	neintuitívny

L5	R5	L6	R6	L7	
wertvoll	minderwertig	langweilig	spannend	uninteressant	
valuable	inferior	boring	exciting	not interesting	
valioso	de poco valor	aburrido	emocionante	no interesante	
Valioso	Sem valor	Aborrecido	Excitante	Desinteressante	
değerli	adi	sıkıcı	heyecan verici	ilginç olmayan	
Apporte de la valeur	Peu de valeur ajout	Ennuyeux	Captivant	Inintéressant	
di grande valore	di poco valore	noioso	appassionante	non interessante	
создает новые ценности	посредственный	скучный	захватывающий	неинтересный	
高品质的	低劣的	乏味的	带劲的	无趣的	
価値がある	価値がない	退屈だ	エキサイティング	おもしろくない	
bermanfaat	kurang bermanfaat	membosankan	mengasyikkan	tidak menarik	
waardevol	inferieur	vervelend	spannend	oninteressant	
väärtuslik	väärtusetu	igav	põnev	ebahuvitav	
osvežilen	uspavajoč	dolgočasen	napet	nezanimiv	
Värdefull	Värdelös	Tråkig	Spännande	Ointressant	
полύτιμο	υποδέεστερο	βαρετό	συναρπαστικό	αδιάφορο	
wartościowy	gorszy	nudny	ekscytujący	nieinteresujący	
मूल्यवान	घाटेया	उबाऊ	दिलचस्प	दिलचस्प नहीं	
стойностен	посредствен	скучен	вълнуващ	безинтересен	
hodnotný	podřadný	nudný	vzrušující	nezajímavý	
bermutu	kurang bermutu	membosankan	menyeronokkan	tidak menarik	
	ارزشمند	نامطلوب	خسته کننده	شورانگیز	عدم جذابیت
มีคุณค่า	ไร้คุณค่า	น่าเบื่อ	น่าตื่นเต้น	ไม่น่าสนใจ	
værdifulde	ringe	kedelige	spændende	uinteressante	
verdifullt	mindre verdifullt	kjedelig	spennende	uinteressant	
arvokasta	vähärvoista	pitkäveteistä	jännittävä	yksitoikkoista	
értékes	jelentékтелен	unalmas	izgalmas	nem érdekes	
vrijedni	neodgovarajući	dosadni	uzbudljivi	nezanimljivi	
vredni	bezvredni	dosadni	uzbudljivi	nezanimljivi	
רעוי	רבותי	מלממ	מביהיל	מיניממ	
मूल्यवान्	निःकृष्ट	मदनी	मम	मथिर	غير مثير للاهتمام
ಬೆಲೆಬಾಳುವ	ಬೆಲೆಬಾಳುವ	ನೀರಸವಾದ	ಉತ್ತೇಜನಾಪೂರ್ಣ	आकर्षणीयनय	
मूल्यवान	कनिष्ठ	कंटाळवाणा	नीरसವಾದ	ಕುತೂಹಲವಲ್ಲದ	
மதிப்பு மிக்க	தாழ்வான	சலிப்பான	बाहेर पडत आहे	मनोरंजक नाही	
hodnotný	menejcenný	nudný	ஆர்வமான	சுவாரஸ்யம் இ	
			vzrušující	nezaujímavý	

R7	L8	R8	L9	R9	
interessant	unberechenbar	voraussagbar	schnell	langsam	
interesting	unpredictable	predictable	fast	slow	
interessante	impredecible	predecible	rapido	lento	
Interessante	Imprevisível	Previsível	Rápido	Lento	
ilginç	tahmin edilemeyen	tahmin edilebilir	hızlı	yavaş	
Intéressant	Imprévisible	Prévisible	Rapide	Lent	
interessante	imprevedibile	prevedibile	veloce	lento	
интересный	непредсказуемый	прогнозируемый	быстрый	медленный	
有趣的	无法预测的	可预见的	快的	慢的	
おもしろい	予想がつかない	予想が付きやすい	速い	遅い	
menarik	tak dapat diprediks	dapat diprediksi	cepat	lambat	
interessant	onvoorspelbaar	voorspelbaar	snel	langzaam	
huvitav	ootamatu	ennustata	kiire	aeglane	
zanimiv	nepredvidljiv	predvidljiv	hiter	počasen	
Intressant	Oförutsägbar	Förutsägbar	Snabb	Långsam	
ενδιαφέρων	απρόβλεπτο	προβλέψιμο	γρήγορο	αργό	
interesujący	nieprzewidywalny	przewidywalny	szybki	wolny	
दिलचस्प	अप्रत्याशित	उम्मीद के मुताबिक	तेज	धीमी	
интересен	непредсказуем	предсказуем	бърз	бавен	
zajímavý	nepředvídatelný	předvídatelný	rychlý	pomalý	
menarik minat	tidak boleh diramal	boleh diramalkan	cepat	perlahan	
	جذاب	غير قابل پیش بینی	قابل پیش بینی	سريع	آهسته
น่าสนใจ	ทำนายไม่ได้	ทำนายได้	รวดเร็ว	เชื่องช้า	
interessante	uforudsigelige	forudsigelige	hurtigt	langsomt	
interessant	uforutsigbare	forutsigbare	raskt	tregt	
kiinnostavaa	arvaamatonta	ennakoitavaa	nopea	hidas	
érdekes	kiszámíthatatlanok	kiszámíthatók	gyors	lassú	
zanimljivi	nepredvidljive	predvidljive	brz	spor	
zanimljivi	nepredvidljivi	predvidljivi	brz	spor	
מְיָדָה	מתפתע	מתועתע	מהיר	איטי	
	مثير للاهتمام	غير متوقعة	متوقعة	سريع	بطيء
मजादार	अनिश्चित	अनुमानयोग्य	द्रुत	धीर	
ಕುತೂಹಲವಲ್ಲದ	ಊಹಿಸಲು ಸಾಧ್ಯವಿಲ್ಲ	ಊಹಿಸಲು ಸಾಧ್ಯವಿಲ್ಲ	ವೇಗ	ವೇಗ	
मनोरंजक	अंदाजकरतायेतनाही	भविष्यवाणीकेलीजाउजलद	धीमा	धीमा	
சுவாரಸ್ಯம்	பூகிக்க முடியாது	பூகிக்கக் கூடியவேகமாக	நிதானம் / மெது	நிதானம் / மெது	
zajímavý	nepředvídatelný	predvídatelný	rýchlý	pomalý	

L10	R10	L11	R11	L12	
originell	konventionell	behindernd	unterstützend	gut	
inventive	conventional	obstructive	supportive	good	
original	convencional	obstrutivo	impulsor de apoyo	bueno	
Original	Convencional	Obstrutivo	Conductor	Bom	
özgün	geleneksel	engelleeyici	destekleyici	iyi	
Original	Conventionnel	Rigide	Facilitant	Bien	
originale	convenzionale	ostruttiva	di supporto	bene	
изобретательный	консервативный	мешающий	помогающий	хороший	
独创的	常规的	碍手碍脚的	能提供辅助的	好的	
独特だ	従来どおり	妨げになる	助けられる	良い	
berdaya cipta	konvensional	menghalangi	mendukung	baik	
origineel	conventioneel	belemmerend	ondersteunend	goed	
leidlik	konservatiivne	takistav	abistav	hea	
nov	star	se ne da upravljati	se z lahkoto upravlj	dober	
Uppfinningsrik	Fantasilös	Hindrande	Stödjande	Bra	
εφευρετικό	συμβατικό	παρελκυστικό	υποστηρικτικό	καλό	
pomysłowy	konwencjonalny	przeszkadzający	wspierający	dobry	
आविष्कारशील	परम्परागत	प्रतिरोधी	सहायक	अच्छा	
идеен	конвенционален	възпрепятстващ	помагащ	добър	
vynalézavý	obvyklý	bránící	podporující	dobrý	
terdapat rekaan ba	berdasarkan kebias	menghalang	menyokong	baik	
	نوآوری/مبتکر	مختل کننده	پشتیبان	خوب	
ช่างประดิษฐ์	ตามแบบแผน	ขัดขวาง	สนับสนุน	ดี	
opfindsom	traditionsbunden	hindrende	understøttende	godt	
oppfinnsom	tradisjonell	hindrende	støttende	bra	
kekseliäs	perinteinen	vaikeuttavaa	tukevaa	hyvä	
ötletes	szokványos	hátráltatók	támogatók	jó	
inventivna	konvencionalna	ometajuće	korisne	dobar	
domišljati	uobičajeni	ometajući	od pomoći	dobar	
פראגמטי	שגורר	מבליג	תומכת	טוב	
	مستحدثة	تقليدية	عائقة	داعمة	جيد
উদ্ভাবক	গতানুগতিক	প্রতিবন্ধক	সহায়ক	ভালো	
ಹೊಸದಾಗಿ ಕಂಡು	ಹೊಸದಾಗಿ ಕಂಡು	ಪ್ರತಿರೋಧಿಸುವ	ಪ್ರತಿರೋಧಿಸುವ	ಒಳ್ಳೆಯ	
ಶೋಧಕ	ಪಾರಂಪರಿಕ	ಅಡವಣುಕು ಕರಣಾರಾ	ಆಧಾರ ದೆಗಾರಾ	ಚಾಂಗಲೆ	
கண்டுபிடிப்பு	வழக்கமான	தடை செய்யும்	ஆதரவு	நல்ல	
moderný	tradičný	obmedzujúci	podporujúci	dobrý	

R12	L13	R13	L14	R14	
schlecht	kompliziert	einfach	abstoßend	anziehend	
bad	complicated	easy	unlikable	pleasing	
malo	complicado	facil	repeler	atraer	
Mau	Complicado	Fácil	Desinteressante	Atrativo	
kötü	karmaşık	sade	itici	çekici	
Médiocre	Complicqué	Simple	Repoussant	Attractif	
male	complicato	facile	repellente	attraente	
плохой	сложный	простой	отталкивающий	заманчивый	
差的	复杂的	简单的	讨厌的	迷人的	
悪い	複雑	簡単	嫌いだ	好きだ	
buruk	rumit	sederhana	tidak disukai	menggembirakan	
slecht	complex	eenvoudig	afstotend	aantrekkelijk	
halb	keeruleine	lihtne	eemaletõukav	ligitõmbav	
slab	komplíciran	enostaven	odbijajoč	privlačen	
Dålig	Komplicerad	Enkel	Möter inte behov	Möter behov	
κακό	περίπλοκο	εύκολο	αντιπαθητικό	συμπαθητικό	
zły	skomplikowany	łatwy	nieprzyjemny	przyjemny	
बुरा	जाटिल	आसान	नापसंद	मनभावन	
лош	сложен	лесен	неприятен	приятен	
špatný	složitý	jednoduchý	odpudivý	přitažlivý	
tidak baik	menyulitkan	mudah	tidak disukai	disukai	
	بد	بیچیدہ	آسان	ناخوشایند	خوشایند
ແຍ້	ซับซ้อน	เรียบง่าย	ไม่น่าชอบใจ	น่าชื่นชอบใจ	
dårligt	indviklede	nemme	frastødende	tiltalende	
dårlig	komplisert	lett	frastøtende	tiltalende	
huono	monimutkaista	helppoa	vastenmielinen	houkutteleva	
rossz	bonyolult	könnyű	visszataszító	vonzó	
loš	komplícirani	jednostavni	odbojna	privlačan	
loš	složeni	jednostavni	odbojna	privlačno	
גרוע	מסובך	קל	לא מושך	מושך	
	سيء	معقد	سهل	غير جذابة	جذابه
খারাপ	जाटिल	सहज	प्रत्याख्यान	आवेदन	
ఒళ్లయి	ಕಿಟ್ಟಕಟ್ಟ	ಕಿಟ್ಟಕಟ್ಟ	ಆಕರ್ಷಣೀಯವಾಗಿ	ಆಕರ್ಷಣೀಯವಾಗಿ	
वाईट	बिकट	सोपे	आकर्षक नाही	आकर्षक	
கெட்ட	சிக்கலான	சுலபம்	நிராகரித்து	கவரச்ச்சியூட்டு	
zły	złożitý	jednoduchý	odpużujúci	poteşujúci	

L15	R15	L16	R16	L17	
herkömmlich	neuartig	unangenehm	angenehm	sicher	
usual	leading edge	unpleasant	pleasant	secure	
convencional	novedoso	incomodo	comodo	seguro	
Comum	Vanguardista	Incómodo	Cómodo	Seguro	
alışıldık	eşi görülmedik	keyifsiz	keyifli	güvenli	
Habituel	Avant-gardiste	Désagréable	Agréable	Sécurisant	
usuale	moderno	sgradevole	piacevole	sicuro	
обыденный	передовой	неприятный	приятный	надежный	
传统的	新颖的	令人难受的	适意的	稳当的	
普通	斬新的	嬉しくない	嬉しい	安全だ	
lazim	terdepan	tidak nyaman	nyaman	aman	
gebruikelijk	nieuw	onaangenaam	aangenaam	vertrouwd	
tavaline	uuenduslik	ebameeldiv	meeldiv	turvaline	
zastarel	modern	neprijeten	prijeten	napovedljiv	
Bakåtsträvande	I framkant	Inte tilltalande	Tilltalande	Säker	
συννηθισμένο	πρωτοπόρο	δυσάρεστο	ευχάριστο	ασφαλές	
zwykły	skrajny	niemiły	mily	bezpieczny	
हमेशा कौ तरह	अग्रणी धार	आप्रेय	सुखद	सुरक्षित	
обикновен	иновативен	противен	приятен	сигурен	
tradiční	moderní	protivný	milý	jistý	
biasa	mempunyai keblif	tidak menyenangkan	menyenangkan	terjamin	
	معمولی	بیشرو در فناوری	مطلوب	نامطلوب	امن
दुर्वांग	दुर्जनना	ไม่น่าชม	น่าชื่นชม	ปลอดภัย	
sædvanlig	avanceret	ubehageligt	behageligt	sikre	
vanlig	ledende	lite tiltalende	tiltalende	sikre	
tavanomainen	huippulaatuinen	epämiellyttävä	miellyttävä	turvallista	
átlagos	élvonalban lévő	kellemetlen	kellemetlen	biztonságosak	
uobičajena	predvodnička	neprijatan	prijatan	sigurne	
svakodnevni	vrhunski	neprijatan	prijatan	bezbedni	
גיליג	גונדשגונד	יעג אל	יעג	בטוחות	
	اعتیادیة	استشرفیة	غير مریح	مریح	مضمونة
साधारण	नेतृस्थानीय	अप्रोतिकर	आनन्ददायक	निरापद	
ಸಾಮಾನ್ಯ	ಸಾಮಾನ್ಯ	ಅಹಿತವಾದ	ಅಹಿತವಾದ	ಸುರಕ್ಷಿತ	
नेहमीच्या	पुढचे टोक	अप्रिय	आनंददायी	सुरक्षित	
சாதாரணமான	முன்னணி	விளவிரும்பத் தகரா;	இனிமையான	பாதுகாப்பு	
bežný	špičkový	nepříjemný	příjemný	spofahlivý	

R17	L18	R18	L19	R19
unsicher	aktivierend	einschläfernd	erwartungskonform	nicht erwartungskonform
not secure	motivating	demotivating	meets expectations	does not meet expectations
inseguro	activante	adormecedor	cubre expectativas	no cubre expectativas
Inseguro	Motivante	Desmotivante	Atende as expectativas	Não atende as expectativas
güvensiz	canlandırıcı	uyutucu	beklentilere uygun	beklentileri karşılayamaz
Insécurisant	Stimulant	Soporifique	Répond aux attentes	Ne répond pas aux attentes
insicuro	attivante	soporifero	aspettativo	non aspettativo
ненадежный	увлекательный	однообразный	соответствует ожиданиям	не соответствует ожиданиям
靠不住的	令人兴奋的	令人昏昏欲睡的	符合预期的	不合期望的
安全でない	モチベーションを上げる	モチベーションを下げる	期待に合う	期待に合わない
tidak aman	memotivasi	tidak memotivasi	memenuhi ekspektasi	tidak memenuhi ekspektasi
niet vertrouwd	motiverend	demotiverend	volgens verwachting	niet volgens verwachting
ebaturvaline	motiveeriv	vähemotiveeriv	vastab ootustele	ei vasta ootustele
nenapovedljiv	raznolik	enoličen	zanesljiv	nezanesljiv
Inte säker	Motiverande	Omotiverande	Möter förväntningarna	Möter inte förväntningarna
анаοφάλες	ενθαρρυντικό	αποθαρρυντικό	ανταποκρίνεται στις δεξιότητες	ανταποκρίνεται στις δεξιότητες
niebezpieczny	motywujący	demotywuujący	spełnia oczekiwania	nie spełnia oczekiwań
सुरक्षित नहीं	प्रोरेत	प्रेरणाहीन	अपेक्षाओं को पूरा कर	अपेक्षाओं को पूरा नहीं कर
несигурен	мотивиращ	демотивиращ	отговаря на очакванията	не отговаря на очакванията
nejistý	motivující	demotivující	splňuje očekávání	nesplňuje očekávání
tidak terjamin	mendorong	tidak mendorong	memenuhi jangkauan	tidak memenuhi jangkauan
	نا امن	عدم ایجاد انگیزه	عدم مطابقت با انتظار	عدم مطابقت با انتظار
ไม่ปลอดภัย	เพิ่มแรงจูงใจ	ลดแรงจูงใจ	ตรงตามที่คาดหวัง	ไม่ตรงตามที่คาดหวัง
usikre	motiverende	demotiverende	på høje med forventningerne	på høje med forventningerne
ikke sikre	motiverende	demotiverende	opfylder forventningerne	opfylder ikke forventningerne
ei turvallista	motivoivaa	ei-innostavaa	odotuksiani vastaavasti	odotuksiani vastaavasti
nem biztonságosak	motiváló	demotiváló	megfelelnek az elvárásoknak	megfelelnek az elvárásoknak
nesigurne	motivirajući	demotivirajući	ne ispunjavaju očekivanja	ne ispunjavaju očekivanja
nebezbedni	motivirajući	sputavajući	ne ispunjavaju očekivanja	ne ispunjavaju očekivanja
תוחבוב וניא	מגלים את המוטיוציה	היצביטוב מביע	מתאימים לתוכניות	מתאימים לתוכניות
	غير مضمونة	مشجّع	لا تفي بالتوقعات	لا تفي بالتوقعات
নিরাপদ নয়	অনুপ্রেরণাদায়ক	অনুপ্রেরণাদায়ক ন	প্রত্যাশাপূরণকরে	প্রত্যাশাপূরণকরে ন
ಸುರಕ್ಷಿತ	ಪ್ರೋತ್ಸಾಹವಾಗಿರುತ್ತದೆ	ಪ್ರೋತ್ಸಾಹವಾಗಿರುತ್ತದೆ	ನಿರೀಕ್ಷೆಯಂತೆ ನಡೆ	ನಿರೀಕ್ಷೆಯಂತೆ ನಡೆ
सुरक्षित नाही	प्रेरणादायक	अप्रेरणादायक	अपेक्षा पूर्ण करत नाही	अपेक्षा पूर्ण करत नाही
பாதுகாப்பு இல்லை	ஊக்குவிக்கும்	ஊக்குவிக்காது	எதிர்பார்ப்புகள்	எதிர்பார்ப்புகள்
nespolahlivý	motivující	demotivující	splňající očekávání	nesplňající očekávání

L20	R20	L21	R21	L22
ineffizient	effizient	übersichtlich	verwirrend	unpragmatisch
inefficient	efficient	clear	confusing	impractical
ineficiente	eficiente	claro	confuso	no pragmatico
Ineficiente	Eficiente	Evidente	Confuso	Impraticável
verimsiz	verimli	açık	kafa karıştırıcı	yararsız
Inefficace	Efficace	Clair	Déroutant	Non pragmatique
inefficiente	efficiente	chiaro	confuso	non pragmatico
неэффективный	эффективный	наглядный	запутанный	непрактичный
低效的	高效的	一目了然的	令人眼花缭乱的	不实用的
効率が悪い	効率が良い	すっきりしている	ごちゃごちゃして	実用的でない
tidak efisien	efisien	jelas	membingungkan	tidak praktis
inefficiënt	efficiënt	overzichtelijk	verwarrend	onpraktisch
ebaefektiivne	efektiivne	selge	ebamäärane	ebapraktiline
ni učinkovit	učinkovit	pregleden	ustvarja zmedo	deluje zatikajoče
Ineffektiv	Effektiv	Tydlig	Förvirrande	Opraktisk
ανεπαρκές	επαρκές	σαφές	μπερδεμένο	μη πρακτικό
nieefektywny	efektywny	przejrzysty	zagmatwany	niepraktyczny
अक्षम	कुशल	स्पष्ट	भ्रामित	अव्यावहारिक
неэффексен	ефикасен	ясен	объркващ	непрактичен
neefektivní	efektivní	jasný	matoucí	nepraktický
tidak berkesan	berkesan	jelas	mengelirukan	tidak praktik
	عدم كفايت	مكفی	واضح	گیج كنده/مبهم
ไร้ประสิทธิภาพ	มีประสิทธิภาพ	ชัดเจน	สับสน	غير كاردردی
ineffektivt	ydedygtigt	tydelige	forvirrende	ปฏิบัติยาก
ineffektivt	effektivt	tydelig	forvirrende	upraktisk
tehoton	tehokas	selkeätä	sekavaa	epäkäytännöllinen
nem hatékony	hatékony	világos	nehezen értelmezhető	nem praktikus
neučinkovit	učinkovit	jasni	zbunjujući	nepraktičan
neefikasan	efikasan	jasni	zbunjujući	nepraktičan
ליעו לא	ליעו	בארהארה	מבלבל	ישומי לא
	غير فعال	فعال	واضح	مربك
অকার্যকর	কার্যকর	स्पष्ट	বিভ্রান্তিকর	غير عملي
दक्षवल्द	दक्षवल्द	संस्पष्ट	संस्पष्ट	अवास्तव
अकार्यक्षम	कार्यक्षम	स्पष्ट	गोधळात टाकणारे	वास्तववल्द
கிறனற்ற	கிறன்	தெளிவு	குழப்பமான	அவ்வகாரிய
neefektívny	efektívny	jasný	mätúci	சாத்தியமற்றது
				nepraktický

R22	L23	R23	L24	R24
pragmatisch	aufgeräumt	überladen	attraktiv	unattraktiv
practical	organized	cluttered	attractive	unattractive
pragmatico	ordenado	sobrecargado	atractivo	feo
Prático	Organizado	Desorganizado	Atraente	Feio
yararlı	derli toplu	dağınık	cazibeli	cazibesiz
Pragmatique	Sobre	Surchargé	Attrayant	Rébarbatif
pragmatico	ordinato	sovraccarico	attrattivo	non attrattivo
практичный	организованный	перегруженный	красивый	отвратительный
实用的	井然有序的	杂乱无章的	吸引人的	无吸引力的
实用的だ	整理されている	整理されていない	魅力がある	魅力がない
praktis	terorganisasi	berantakan	atraktif	tidak atraktif
praktisch	ordelijk	rommelig	aantrekkelijk	onaantrekkelijk
praktiline	organiseeritud	ülekoormatud	atraktiivne	ebaatraktiivne
deluje tekoče	prostoren	prenatran	lep	grd
Praktisk	Strukturerad	Rörig	Estetisk	Oestetisk
πρακτικό	οργανωμένο	ανοργάνωτο	ελκυστικό	απωθητικό
praktyczny	zorganizowany	zagracony	atrakcyjny	nieatrakcyjny
व्यावहारिक	संगठित	अव्यवस्थित	आकर्षक	अनाकर्षक
практичен	подреден	разхвърлян	привлекателен	непривлекателен
praktický	uspořádaný	roztráštěný	pěkný	ošklivý
praktik	teratur	serabut	menarik	tidak menarik
	کا ربردی	سازماندهی شده	بهم ریخته	جلب توجه نمی کند
প্রণীতীয়	তুপৈনরবেয	তুণুৱায়	তীংতুতজ	নাইতীংতুতজ
praktisk	organiseret	rodet	attraktive	unattraktive
praktisk	organisert	rotete	attraktive	skjemmende
käytännöllinen	järjestelmällinen	sekainen	viehättävä	epämiellyttävä
praktikus	jól szervezett	szervezetlen	szép	nem szép
praktičan	organiziran	neuredan	privlačno	neprivlačno
praktičan	organizovan	natran	privlačan	neprivlačan
שימושי	מוארגן	מוסבל	יביאקאט	לא יביאקאט
	عملي	منظم	مبعثر	جذاب
বাস্তব	সংগঠিত	এলোমেলো	আকর্ষণীয়	অনাকর্ষণীয়
ವಾಸ್ತವಲದ್ದ	ವಸ್ತುಸಿಕ್ತವಾದ	ವಸ್ತುಸಿಕ್ತವಾದ	ಆಕರ್ಷಕವಾಗಿದೆ	ಆಕರ್ಷಕವಾಗಿದೆ
व्यावहारिक	संगठित	गोंधळलेले	आकर्षक	आवडत नाही
சாத்தியமாகுள்	சுறப்பாடு	இரைச்சலான	கவர்ச்சிகரமாக	கவர்ச்சியற்றது
praktický	prehľadný	neprehľadný	príťažlivý	nepříťažlivý

L25	R25	L26	R26
sympathisch	unsympathisch	konservativ	innovativ
friendly	unfriendly	conservative	innovative
simpatico	antipatico	conservador	innovador
Simpático	Antipático	Conservador	Inovador
sempatik	sempatik olmayan	tutucu	yenilikçi
Sympathique	Inamical	Conservateur	Innovant
simpatico	antipatico	conservativo	innovativo
доброжелательны	недоброжелатель	непримечательны	инновационный
引起好感的	令人反感的	保守的	创新的
感じがいい	感じが悪い	保守的	革新的
ramah pengguna	tidak ramah pengguna	konservatif	inovatif
aardig	onaardig	conservatief	innovatief
sümpaatne	ebasümpaatne	konservatiivne	uuenduslik
simpatičen	nesimpatičen	nevpadljiv	vpadljiv
Användbar	Inte användbar	Konservativ	Innovativ
φιλικό	εχθρικό	συντηρητικό	καινοτόμο
przyjazny	nieprzyjazny	konserwatywny	innowacyjny
अनुकूल	प्रातिकूल	रूढ़िवादी	नवीन
лесен за ползване	труден за ползван	консервативен	новаторски
sympatický	nesympatický	konzervativní	inovativní
senang digunakan	sukar digunakan	konservatif	inovatif
	مساعد	نامساعد	محافظة كارهانه
ดูเป็นมิตร	ดูไม่เป็นมิตร	อนุรักษ์นิยม	เป็นนวัตกรรม
venligt	uvenligt	konservativ	innovative
vennlig	uvennlig	ledende	innovativ
käyttökelpoinen	vahingollinen	vanhoillinen	innovatiivinen
barátságos	barátságatlan	konzervatív	innovatív
prijateljski	neprijateljski	konzervativna	inovativna
ugodan	neugodan	konzervativni	inovativni
יְתוּדָיִם	לא יְתוּדָיִם	שמרניים	חדשניים
	ودود	غير ودود	محافظة
বন্ধুত্বপূর্ণ	বন্ধুত্বসুলভ নয়	রক্ষণশীল	উদ্ভাবনী
ಸೆಡ್ಲಪರವಾದ	ಸೆಡ್ಲಪರವಾದ	ಪುರಾತನ	ಪುರಾತನ
मित्रत्वाचा	अ मित्रत्वाचा	पुराणमतवादी	नाविन्यपूर्ण
நட்பாக	அன்பில்லாத	பழமையான	புதுமையான
sympatický	nesympatický	konzervativný	inovativný

Attractiveness	Perspicuity	Efficiency	Dependability
Attraktivität	Durchschaubarkeit	Effizienz	Steuerbarkeit
Attractiveness	Perspicuity	Efficiency	Dependability
Atracción	Transparencia	Eficiencia	Controlabilidad
Atractividade	Transparência	Eficiência	Controlo
Çekicilik	Anlaşılrlık	Verimlilik	Güvenilirlik
Attraction	Compréhensibilité	Efficacité	Contrôlabilité
Attrattività	Apprendibilità	Efficiencia	Controllabilità
привлекательность	ясность	эффективность	надежность
吸引力	明晰	效率	可靠性
見栄え	明快さ	効率	信頼性
Daya tarik	Kejelasan	Efisiensi	Ketepatan
Aantrekkelijkheid	Transparantie	Efficiëntie	Bestuurbaarheid
Atraktiivsus	Arusaadavus	Tõhusus	Usaldusväarsus
Atraktivnost	Preglednost	Učinkovitost	Vodljivost
Attraktivitet	Tydligbet	Effektivitet	Pålitlighet
ελκυστικότητα	Ευκρίνεια	Αποδοτικότητα	Αξιοπιστία
Atrakcyjność	Przejrzystość	Efektywność	Zależność
आकर्षण	स्पष्टता	दक्षता	विश्वसनीय
Атрактивност	Лесен за учене	Ефикасност	Контролируемост
Atraktivita	Přehlednost	Účinnost	Spolehlivost
Daya Tarikan	Kejelasan	Kecekapan	Kebergantungan
	جذابیت	شفافیت	قابلیت اطمینان
ความน่าดึงดูดใจ	ความชัดเจน	อย่างมีประสิทธิภาพ	ความคม
Tiltrækningskraft	Klarhed	Ydeevne	Pålidelighed
Attraktivitet	Klarhet	Effektivitet	Pålitelighet
Miellyttävyys	Selkeys	Tehokkuus	Toimintavarmuus
Kellem	Áttekinthetőség	Hatékonyaság	Megbízhatóság
Privlačnost	Razumljivost	Učinkovitost	Pouzdanost
Privlačnost	Razumljivost	Efikasnost	Pouzdanost
מאקראטיביות	בהירות	תוליעי	מהימנות
	الجاذبية	الوضوح	الكفاءة
আকর্ষণীয়তা	সুস্পষ্টতা	দক্ষতা	নির্ভরতা
ಆಕರ್ಷಕವಾದ	ಪಾರದರ್ಶಕತೆ	ದಕ್ಷತೆ	ಆಸರೆಯಾಗಿರುವುದು
आकर्षण	सुस्पष्टता	कार्यक्षमता	अवलंबित्व
கவற்ச்சி	தெளிவு குறித்த	திறன் (திறமை)	சார்ந்திருக்கும்
Atraktivnosť	Učebnosť	Účinnosť	Ovládateľnosť

Stimulation	Novelty	Pragmatic Quality	Hedonic Quality
Stimulation	Originalität	Pragmatische Qualität	Hedonische Qualität
Stimulation	Novelty	Pragmatic Quality	Hedonic Quality
Estimulación	Novedad	Calidad Pragmática	Calidad Hedónico
Estimulação	Inovação	Qualidade Pragmática	Qualidade Hedônica
Canlılık	Yenilikçilik	Pragmatik Kalite	Hedonik Kalite
Stimulation	Originalité	Qualité Pragmatique	Qualité Hédonique
Stimolazione	Originalità	Qualità Pragmatico	Qualità eEonica
стимуляция	новинка	Прагматический качес	гедонистической качес
促進	新奇	务实的品质	享乐质量
刺激	ノベルティ	実用的な品質	ヘドニック品質
Stimulasi	Kebaruan	Kualitas Pragmatis	Kualitas Hedonis
Stimulatie	Originaliteit	Pragmatische Kwaliteit	Hedonistische Kwaliteit
Stimuleerimine	Uudsus	Pragmaatiline kvaliteet	Hedooniline kvaliteet (l
Stimulativnost	Originalnost	pragmatično kakovosti	hedonsko kakovosti
Stimulering	Aktualitet	Pragmatiska kvaliteter	Hedoniska kvaliteter
Διέγερση	Καινοτομία	πραγματοική ποιότητα	ηδονική ποιότητα
Poziom stymulacji	Oryginalność	Pragmatyczne jakości	Hedoniczna jakości
उत्तेजना	नवीनता	व्यावहारिक गुणवत्ता	सुखात्मक गुणवत्ता
Стимуляция	Новаторство	прагматичен качество	хедонистична качеств
Stimulace	Originalita	Pragmatická kvalita	Hédonická kvalita
Pendorongan	Terdapat kebaruan	Kualiti yang berguna	Kualiti Kesenangan
	انگیزش	نوآوری	کیفیت استفاده
			کیفیت طراحی
การกระตุ้น	ความแปลก	คุณภาพในทางปฏิบัติ	คุณภาพความเพลิดเพลิน
Stimulering	Nyhedsværldi	Pragmatic Quality	Hedonic Quality
Motivasjon	Nyhet	Pragmatic Quality	Hedonic Quality
Kannustavuus	Uutuus	Pragmatic Quality	Hedonic Quality
Ösztönzés	Újszerűség	Pragmatic Quality	Hedonic Quality
Stimulacija	Novina	Pragmatic Quality	Hedonic Quality
Stimulacija	Novina	Pragmatic Quality	Hedonic Quality
ກມາຍ	ນາໂພລ	Pragmatic Quality	Hedonic Quality
	التحريك	الحدائة	Pragmatic Quality
উদ্দীপনা	নূতনত্ব	Pragmatic Quality	Hedonic Quality
ஸ்தீஜன	ஊஸ்தன	Pragmatic Quality	Hedonic Quality
उत्तेजन	नवलाईचीगोष्ट	Pragmatic Quality	Hedonic Quality
தூண்டுகல்	புதுமை	Pragmatic Quality	Hedonic Quality
Stimulácia	Novinkou	Pragmatická kvalita	Hedonická kvalita

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