

# Rongorongo Arbeitsblätter

## für die Auswertung von Rongorongo-Tafeln

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## **Verfahren**

Bisher wurde nur durch die Auswertung der Tafel ARUKU KURENGA [1] und Rekonstruktionen von Alt-Rapanui [2] Hypothesen zur Lesung und Schreibung von Rongorongo-Texten formuliert. Um der Dechiffrierung von Rongorongo näher zu kommen müssen weitere Tafeln ausgewertet werden. Es geht darum, die Hypothesen zu prüfen und festzustellen ob sich Konvergenzen in den Transkriptionen zeigen.

Um weitere Rongorongo-Tafeln auswerten zu können ist es sinnvoll, einige Listen und Lookup-Tables als Hilfsmittel und Arbeitsblätter zur Verfügung zu haben, welche die benötigten Informationen in sortierter und vergleichbarer Weise zur Verfügung stellen. Deshalb wird hier statt mit absoluten Zahlen mit Prozentzahlen gearbeitet.

### **Schritt 1**

Die wichtigste Information für die Auswertung einer Tafel ist die absolute Anzahl des häufigsten grafischen Elementes dieser Tafel. Dafür dient die absteigend sortierte Liste der Elementnummern nach Häufigkeit gemäß der Auswertung der Tafel ARUKU KURENGA (etwas anderes steht momentan nicht zur Verfügung).

Diese Liste dient zur Identifizierung der wahrscheinlich häufigsten grafischen Elemente einer Tafel. Eine weitere Liste, sortiert nach Elementnummern dient der Notation der Auszählung.

### **Schritt 2**

Bei der maximalen Anzahl von Elementen kann es sich jedoch auch um die Summe der Häufigkeiten einer Menge von ähnlichen Elementen handeln. Die zweite aufsteigend sortierte Liste der Elementnummern der einfachen Elemente hilft bei der Berechnung, wenn die wahrscheinlich häufigsten Elemente einer Tafel bereits gezählt sind.

Zu dieser maximalen Häufigkeit wird die Anzahl eines Elementes derselben Tafel in prozentuale Relation gesetzt. Die maximale Häufigkeit entspricht dabei 100%.

Nach Abschluß der Zählung kann diese Liste revers nach Häufigkeiten sortiert werden, um sie mit den Häufigkeiten anderer Tafeln vergleichen zu können.

## **Arbeitsblätter**

Da hier mit relativen Häufigkeiten gearbeitet wird können auch bereits alle Lookup-Tables unabhängig von den Tafeln berechnet werden, noch bevor die Auszählung aller Elemente vollständig abgeschlossen ist. Grundlage ist die Statistik von Alt-Rapanui [2].

Ziel ist, die Regeln der Lesung und Schreibung von Rongorongo herauszufinden.

# 1. Lookup-Table: Sortierte Liste der Elementnummern nach Häufigkeit

Hier spiegelt die Reihenfolge die Reihenfolge die wahrscheinlich auch in anderen Tafeln häufigsten Elemente wieder. Diese Sortierung hat sich bei der Auswertung der Tafel ARUKU KURENGA ergeben [1].

Sortierte Häufigkeit einfacher Elemente (in ARUKU KURENGA)			
666 E138 ?	19 E119	7 E47	2 E246
	18 E218	7 E20	2 E243
209 E2	18 E204	7 E191	2 E242
190 E4	18 E141	7 E177	2 E239
170 E179	18 E117	6 E26	2 E234
148 E5	17 E86	6 E233	2 E227
141 E272	17 E45	6 E173	2 E222
135 E1	17 E42	6 E169	2 E217
131 E7	17 E105	6 E167	2 E201
115 E6	16 E89	5 E91	2 E189
109 E35	16 E49	5 E82	2 E185
104 E21	16 E255	5 E76	2 E172
103 E56	16 E183	5 E73	2 E171
98 E121	16 E180	5 E38	2 E168
94 E27	16 E16	5 E305	2 E160
94 E153	16 E145	5 E248	2 E151
89 E166	16 E14	5 E241	2 E150
78 E9	15 E249	5 E225	2 E143
78 E63	15 E229	5 E210	2 E137
75 E10	15 E12	5 E124	2 E135
73 E32	15 E110	5 E118	2 E133
69 E34	14 E72	5 E107	2 E112
63 E64	14 E343	4 E68	1 E84
61 E126	14 E253	4 E273	1 E83
54 E152	13 E41	4 E257	1 E77
53 E40	13 E200	4 E254	1 E65
51 E29	13 E13	4 E251	1 E62
49 E134	12 E54	4 E226	1 E59
46 E15	12 E184	4 E220	1 E31
44 E181	12 E164	4 E209	1 E264
42 E11	12 E158	4 E207	1 E262
40 E43	12 E100	4 E202	1 E256
39 E3	11 E95	4 E198	1 E252
38 E71	11 E87	4 E195	1 E250
37 E74	11 E80	4 E188	1 E247
37 E51	11 E214	4 E162	1 E245
35 E50	11 E213	3 E97	1 E240
35 E197	11 E208	3 E75	1 E236
35 E17	11 E163	3 E66	1 E232
34 E165	11 E120	3 E61	1 E228
32 E88	11 E114	3 E48	1 E216
31 E231	11 E113	3 E37	1 E194
30 E224	10 E98	3 E36	1 E193
29 E55	10 E161	3 E25	1 E192
29 E39	10 E144	3 E244	1 E190
29 E212	10 E122	3 E237	1 E187
28 E155	10 E109	3 E230	1 E186
26 E238	9 E99	3 E221	1 E182
25 E334	9 E90	3 E219	1 E156
25 E175	9 E30	3 E211	1 E154
25 E127	9 E28	3 E174	1 E149
24 E70	9 E196	3 E157	1 E148
24 E104	9 E128	3 E147	1 E146
23 E58	9 E108	3 E139	1 E142
23 E57	9 E103	3 E129	1 E140
22 E85	8 E96	3 E125	1 E136
22 E206	8 E81	3 E0	1 E131
21 E92	8 E8	2 E93	1 E123
21 E205	8 E33	2 E79	1 E115
21 E18	8 E260	2 E60	1 E111
21 E132	8 E215	2 E46	1 E102
20 E78	8 E199	2 E315	1 E101
20 E159	8 E178	2 E263	0 E130
20 E106	8 E176	2 E261	
19 E52	7 E67	2 E259	
19 E44	7 E53	2 E258	

## 2. Lookup-Table: Aufsteigend sortiertes Arbeitsblatt der Elementnummern

Diese Liste ist ein Arbeitsblatt zum Zählen der Elemente einer bestimmten Tafel.

Sortierte Häufigkeit der Elemente im TABLET X (Tablet x)						
*Exxx	mehrere Elemente	Exxx	einfaches Element			
E0	TANGATA, ARIKI	E75	MAUI	E150	E225	*E300
E1		E76		E151	E226	*E301
E2		E77		E152	E227	*E302
E3		E78	RANGI	E153	E228	*E303
E4		E79	HONU	E154	E229	*E304
E5		E80		E155	E230	*E305
E6		E81	KOTI	E156	E231	*E306
E7		E82		E157	E232	*E307
E8		E83		E158	E233	*E308
E9		E84		E159	E234	*E309
E10		E85		E160	E235	*E310
E11		E86		E161	E236	*E311
E12		E87		E162	E237	*E312
E13		E88		E163	E238	*E313
E14		E89		E164	E239	*E314
E15		E90		E165	E240	*E315
E16	MANU	E91	MOAI	E166	E241	*E316
E17		E92		E167	E242	*E317
E18		E93		E168	E243	*E318
*E19		E94		E169	E244	*E319
E20		E95		E170	E245	*E320
E21		E96		E171	E246	*E321
*E22		E97		E172	E247	*E322
*E23		E98		E173	E248	*E323
*E24		E99		E174	E249	*E324
E25		E100	KOMARI	E175	E250	*E325
E26	RA, AHI, HETU	E101		E176	E251	*E326
E27		E102		E177	E252	*E327
E28		E103	REIMIRO	E178	E253	*E328
E29		E104		E179	E254	*E329
E30		E105		E180	E255	*E330
E31		E106		E181	E256	*E331
E32	HAKA	E107		E182	E257	*E332
E33		E108		E183	E258	*E333
E34		E109	MOA	E184	E259	*E334
E35		E110		E185	E260	*E335
E36		E111		E186	E261	*E336
E37		E112		E187	E262	*E337
E38		E113	REIMIRO, MIRO	E188	E263	*E338
E39		E114		E189	E264	*E339
E40		E115		E190	*E265	*E340
E41		*E116		E191	*E266	*E341
E42		E117		E192	*E267	*E342
E43		E118		E193	*E268	E343
E44		E119	RA, HETU, AHI	E194	*E269	E344
E45	IKA	E120		E195	*E270	E345
E46		E121		E196	*E271	E346
E47		E122		E197	E272	E347
E48		E123	MAKEMAKE, TIKI	E198	E273	E348
E49		E124		E199	*E274	E349
E50		E125		E200	*E275	*E350
E51		E126		E201	*E276	E351
E52		E127		E202	*E277	E352
E53		E128		*E203	*E278	
E54		E129		E204	RA, HETU, AHI	E
E55		E130		E205	= E152	E
E56		E131		E206		E
E57		E132		E207		E
E58		E133	ROTIA HENUA, HATI	E208		E
E59		E134		E209		E
E60		E135		E210		E
E61		E136	VAKA	E211		E
E62	MATA	E137		E212		E
E63		E138	ATUA	E213		E
E64		E139		E214		E
E65		E140		E215		E
E66		E141		E216		E
E67		E142		E217		E
E68		E143		E218		E
*E69		E144		E219		E
E70		E145		E220		E
E71		E146		E221		E
E72	TE, HENUA, O, HOTU, MATUA	E147		E222		E
E73		E148		E223		E
E74		E149		E224		E

### 3. Lookup-Table: Zuordnung der relativen Elementanzahl zu Silben

Wenn von einer Rongorongo-Tafel die absolute Anzahl  $m$  des häufigsten grafischen Elementes bekannt ist (was 100% entspricht), kann für jedes weitere Element aus dessen absoluter Häufigkeit  $n$  die relative Häufigkeit  $\frac{n}{m} \cdot 100$  % berechnet werden.

Damit lassen sich aus folgender Liste dem Element mögliche Silben von Alt-Rapanui [2] zuordnen.

Bei Dezimalzahlen werden die Einträge der ganzzahligen Prozentzahl und der nächsthöheren verwendet.

Diese Liste ist die erste, die zum Lesen von Rongorongo-Texten nützlich ist.

Prozentuale Elementanzahl und Silben	
Elementanzahl 0% ,vo,	Elementanzahl 22% ,ko,ra,nga,ha,ka,o,he,e,ho,tu,
Elementanzahl 1% ,aku,vi,mu,ni,ngu,	Elementanzahl 23% ,o,he,ko,ra,nga,ha,ka,u,e,
Elementanzahl 2% ,kia,ngo,ve,nei,pi,me,	Elementanzahl 24% ,o,he,ko,ra,nga,ha,e,ka,ki,u,
Elementanzahl 3% ,pi,pe,me,po,ngo,ve,	Elementanzahl 25%-26% ,ka,o,he,ko,ra,nga,e,ha,ta,ki,u,
Elementanzahl 4% ,po,ngi,ne,pe,	Elementanzahl 27%-28% ,e,ka,o,he,ki,u,ko,ra,nga,ma,ta,ha,
Elementanzahl 5% ,ngi,ne,ti,no,pu,ana,haka,po,	Elementanzahl 29% ,u,e,ka,ta,ki,o,he,ma,ko,ra,nga,
Elementanzahl 6% ,pu,ana,haka,pa,ti,no,hu,kua,mo,ke,ngi,	Elementanzahl 30% ,u,e,ta,ki,ka,o,ma,he,ko,ra,
Elementanzahl 7% ,kua,mo,ke,pa,ti,no,pu,ana,mai,hu,haka,ai,	Elementanzahl 31%-32% ,ki,u,e,ma,ta,ka,o,he,
Elementanzahl 8% ,mai,hu,kua,mo,ke,pa,ai,ti,no,va,ru,pu,ana,haka,	Elementanzahl 33%-34% ,ta,ki,u,ma,e,ka,
Elementanzahl 9% ,ai,mai,hu,va,ru,kua,mo,ke,hi,pa,ti,	Elementanzahl 35%-37% ,ma,ta,ki,u,e,
Elementanzahl 10% ,va,ru,ai,hi,mai,hu,ri,nu,ro,kua,mo,	Elementanzahl 38% ,ma,ta,ki,u,

Elementanzahl 11% ,hi,va,ru,nu,ro,ai,re,na,ri,mai,	Elementanzahl 39%-40% ,ma,ta,ki,te,u,
Elementanzahl 12% ,nu,ro,hi,va,na,ri,ru,to,ku,re,ai,	Elementanzahl 41% ,ma,ta,i,te,ki,u,
Elementanzahl 13% ,ri,nu,ro,ku,re,na,hi,va,ho,tu,to,ru,	Elementanzahl 42%-43% ,ma,i,te,ta,ki,
Elementanzahl 14% ,re,na,ri,nu,ro,ho,tu,to,ku,hi,va,	Elementanzahl 44%-45% ,te,ma,i,ta,
Elementanzahl 15% ,to,ku,re,na,ri,ho,tu,nu,ro,hi,	Elementanzahl 46%-48% ,i,te,ma,
Elementanzahl 16% ,ho,tu,to,ku,re,na,ri,ha,nu,ro,	Elementanzahl 49%-51% ,te,i,
Elementanzahl 17% ,ho,tu,to,ku,re,na,ko,ra,nga,ha,ri,	Elementanzahl 52%-57% ,i,te,
Elementanzahl 18% ,ho,tu,ha,to,ku,re,o,he,ko,ra,nga,na,ri,	Elementanzahl 58%-71% ,a,i,te,
Elementanzahl 19% ,ho,tu,ko,ra,nga,ha,to,ka,o,he,ku,re,	Elementanzahl 72%-74% ,a,i,
Elementanzahl 20% ,ha,he,ko,ra,nga,ho,tu,ka,o,to,ku,	Elementanzahl 75%-100% ,a,
Elementanzahl 21% ,nga,ha,o,he,ko,ra,e,ka,ho,tu,to,	

#### 4. Lookup-Table: Zuordnung Silben zu relativen Elementanzahlen

Zu jeder Silbe und vielen Partikeln von Alt-Rapanui wird hier die zugehörige relative Elementanzahl angegeben.

Soll z.B. die Hypothese der Lesung einer bestimmten Glyphe überprüft werden, so kann neben der direkten Transkription der Elemente auch der umgekehrte Weg gewählt werden und ausgehend von den Silben mittels der folgenden Liste nach grafischen Elementen gesucht werden.

Diese Liste ist die erste, die auch zum Schreiben von Rongorongo-Texten nützlich ist.

<b>Silben/Partikel und zugehörige prozentuale Elementanzahlen, alphabetisch sortiert</b>			
Silbe: a	Elementanzahl 58% - 100%	Silbe: nga	Elementanzahl 17% - 29%
Silbe: ai	Elementanzahl 7% - 12%	Silbe: nge	Elementanzahl 0% - 1%
Silbe: aku	Elementanzahl 1%	Silbe: ngi	Elementanzahl 4% - 6%
Silbe: ana	Elementanzahl 5% - 8%	Silbe: ngo	Elementanzahl 2% - 3%
Silbe: e	Elementanzahl 21% - 37%	Silbe: ngu	Elementanzahl 1%
Silbe: ha	Elementanzahl 16% - 28%	Silbe: ni	Elementanzahl 1%
Silbe: haka	Elementanzahl 5% - 8%	Silbe: no	Elementanzahl 5% - 8%
Silbe: he	Elementanzahl 18% - 32%	Silbe: nu	Elementanzahl 10% - 16%
Silbe: hi	Elementanzahl 9% - 15%	Silbe: o	Elementanzahl 18% - 32%
Silbe: ho	Elementanzahl 13% - 22%	Silbe: pa	Elementanzahl 6% - 9%
Silbe: hu	Elementanzahl 6% - 10%	Silbe: pe	Elementanzahl 3% - 4%
Silbe: i	Elementanzahl 41% - 74%	Silbe: pi	Elementanzahl 2% - 3%
Silbe: ina	Elementanzahl 1% - 2%	Silbe: po	Elementanzahl 3% - 5%
Silbe: ka	Elementanzahl 19% - 34%	Silbe: pu	Elementanzahl 5% - 8%
Silbe: ke	Elementanzahl 6% - 9%	Silbe: ra	Elementanzahl 17% - 30%
Silbe: ki	Elementanzahl 24% - 43%	Silbe: re	Elementanzahl 11% - 19%
Silbe: kia	Elementanzahl 2%	Silbe: ri	Elementanzahl 10% - 18%
Silbe: ko	Elementanzahl 17% - 30%	Silbe: ro	Elementanzahl 10% - 16%
Silbe: ku	Elementanzahl 12% - 20%	Silbe: ru	Elementanzahl 8% - 13%
Silbe: kua	Elementanzahl 6% - 10%	Silbe: ta	Elementanzahl 25% - 5%
Silbe: ma	Elementanzahl 27% - 48%	Silbe: te	Elementanzahl 39% - 71%
Silbe: mai	Elementanzahl 7% - 11%	Silbe: ti	Elementanzahl 5% - 9%
Silbe: me	Elementanzahl 2% - 3%	Silbe: to	Elementanzahl 12% - 21%
Silbe: mi	Elementanzahl 1% - 2%	Silbe: tu	Elementanzahl 13% - 22%
Silbe: mo	Elementanzahl 6% - 10%	Silbe: u	Elementanzahl 23% - 41%
Silbe: mu	Elementanzahl 1%	Silbe: va	Elementanzahl 8% - 14%
Silbe: na	Elementanzahl 11% - 18%	Silbe: ve	Elementanzahl 2% - 3%
Silbe: ne	Elementanzahl 4% - 5%	Silbe: vi	Elementanzahl 1%
Silbe: nei	Elementanzahl 2%	Silbe: vo	Elementanzahl 0% - 1%

## 5. Lookup-Table: Zuordnung der relativen Elementanzahl zu Wörtern

Mit Hilfe der relativen Häufigkeit eines Elementes können diesem auch ganze Rapanui-Worte zugeordnet werden [2].

Diese Liste ist die zweite, die zum Lesen von Rongorongo-Texten nützlich ist.

<b>Relative Elementanzahl und Wörter</b>	
Elementanzahl 1% takaure, aka, tama, roro, hai, piri, ao, one, kuku, poko, hiti, toru, tere, maui, aku, a, turu, topa, kona, ura, mara, haho, eko, taropa, raua, rava, titiro, pau, kihikihi, rou, tuku, tiki, piere, maori, ina, here, epe, vere, taha, pei, niu, heke, haha, ki, i, rakau, pito, mana, kahi, tomo, tikea, rapu, uru,	Elementanzahl 14% ta, ariki, oho, ra, ha, tangata, haka, kua, ma, to, ana, mai, ko, ka, o, e,  Elementanzahl 15% ra, ha, tangata, haka, to, oho, ta, ariki, kua, ma, ka, o, ko, mai, e,

<p>toa, ava, tuki, hati, tamahahine, taka, rarama, viri, reva, hura, tata, poporo, kumara, kara, hora, heu, hahau, tara, tai, hetu, iti, uhi, tou, korua, uri, ure, tupu, hanau, maitaki, kava, atua, toki, pua, rara, ata, ahi, pure, kura, kau, ahu, huri, hatu, papa, tahi, hoa, ara, kuhane, roa, moko, hoki, vaha, moai, motu, rapa, pe,</p>	<p>Elementanzahl 16% oho, ra, ha, tangata, haka, kua, ma, to, tu, ta, ariki, ko, ka, o, e, mai,</p>
<p>Elementanzahl 2% iti, uhi, tou, korua, uri, ure, tupu, hanau, rara, ata, ahi, pure, kura, kau, ahu, huri, hatu, toki, pua, tara, tai, hetu, vaha, moai, motu, rapa, pe, kuhane, roa, moko, hoki, maitaki, kava, atua, hoko, atu, ti, kai, ke, nape, koia, tea, nei, hu, maro, moe, rei, moa, mata, vai, rua, po, ika, uta, roto, hiva, hua, miro, ua, u, ira, no, mau, pa, ui, mea, marama, ea, honu, iri,</p>	<p>Elementanzahl 17%-19% kua, ma, to, tu, oho, ra, ha, tangata, haka, e, ko, ka, o,</p>
<p>Elementanzahl 3% huki, vae, au, nui, ihe, rau, papa, tahi, hoa, ara, kuhane, roa, moko, hoki, miro, ua, mea, marama, ea, honu, iri, maitaki, kava, atua, koia, tea, nei, hu, maro, moe, rei, moa, uta, roto, hiva, hua, toki, pua, teke, tau, pu, rere, oti, hi, u, ira, na, kia, ia, no, mau, pa, ui, ai, mo, mata, vai, rua,</p>	<p>Elementanzahl 20% kua, ma, tu, to, oho, mai, ra, ha, tangata, haka, e, ko, ka, o,</p>
<p>Elementanzahl 4% nape, koia, tea, nei, hu, maro, moe, rei, moa, uta, roto, hiva, hua, miro, vai, rua, po, ika, atu, ti, kai, ke, ua, mea, marama, ea, honu, iri, mau, pa, ui, mata, huki, vae, au, nui, ihe, ai, mo, manu, ku, na, kia, ia, ana, hau, teke, tau,</p>	<p>Elementanzahl 21% tu, kua, ma, to, mai, oho, ra, ha, tangata, e, ki, i, ko, ka, o,</p>
<p>Elementanzahl 5% pa, ui, mata, vai, rua, po, ika, atu, ti, hi, u, ira, no, mau, kai, ke, nape, koia, tea, teke, tau, pu, rere, oti, nei, hu, maro, moe, rei, moa, uta, ana, hau, manu, ku, ta, ariki, ai,</p>	<p>Elementanzahl 22% tu, kua, ma, mai, to, oho, e, ki, i, ko,</p>
<p>Elementanzahl 6% pu, rere, oti, hi, u, ira, no, mau, pa, kia, ia, teke, tau, ui, mata, ai, mo, na, vai, rua, po, ika, atu, ta, ariki, haka, ana, hau, to, oho, ra, ha, tangata, manu, ku,</p>	<p>Elementanzahl 23% tu, mai, kua, ma, to, e, a, ki, i,</p>
<p>Elementanzahl 7% na, kia, ia, teke, tau, pu, rere, oti, ai, mo, hi, u, ira, ku, no, mau, pa, ui, ra, ha, tangata, haka, to, oho, ta, ariki, kua, ma,</p>	<p>Elementanzahl 24% tu, mai, kua, ma, ki, i, a, e,</p>
	<p>Elementanzahl 25% mai, tu, ka, o, kua, ki, i, a, e,</p>
	<p>Elementanzahl 26%-29% mai, tu, ka, ko, o, a, ki, i, he,</p>
	<p>Elementanzahl 30%-36% ko, ka, o, mai, e, a, ki, i, he,</p>
	<p>Elementanzahl 37%-38% e, ko, ka, o, he, a, ki, i,</p>
	<p>Elementanzahl 39%-41% e, ko, ka, o, he, a,</p>
	<p>Elementanzahl 42%-43% e, ko, ka, o, he,</p>
	<p>Elementanzahl 44% e, i, ko, ka, o, he,</p>
	<p>Elementanzahl 45% e, ki, i, ko, ka, he,</p>



<p>Elementanzahl 8%</p> <p>ai, mo, na, kia, ia, ku, teke, tau, ana, hau, manu, pu, rere, oti, hi, to, oho, ra, ha, tangata, haka, kua, ma, tu,</p>	<p>Elementanzahl 46%</p> <p>e, ki, i, ko, he,</p>
<p>Elementanzahl 9%</p> <p>ku, ai, ana, hau, manu, mo, na, ariki, kia, ia, teke, tau, kua, ma, to, tu, oho, ra, ha, tangata, haka,</p>	<p>Elementanzahl 47%</p> <p>e, a, ki, i, ko, he,</p>
<p>Elementanzahl 10%</p> <p>ana, hau, manu, ku, ta, ariki, ai, mo, tu, kua, ma, to, mai, oho, ra,</p>	<p>Elementanzahl 48%-53%</p> <p>ki, i, a, e,</p>
<p>Elementanzahl 11%</p> <p>ana, hau, manu, ta, ariki, ku, haka, tu, mai, kua, ma, to,</p>	<p>Elementanzahl 54%</p> <p>a, ki, i, he, e, te,</p>
<p>Elementanzahl 12%</p> <p>ta, ariki, ana, hau, manu, ra, ha, tangata, haka, ku, mai, tu, ko, ka, o,</p>	<p>Elementanzahl 55%-81%</p> <p>he, a, ki, i, te,</p>
<p>Elementanzahl 13%</p> <p>ta, ariki, ha, tangata, haka, ana, to, oho, ra, hau, manu, mai, o, ko, ka, tu,</p>	<p>Elementanzahl 82%</p> <p>he, a, ki, te,</p>
	<p>Elementanzahl 83%-87%</p> <p>he, a, te,</p>
	<p>Elementanzahl 88%-100%</p> <p>he, te,</p>

## 6. Lookup-Table: Zuordnung Wörter zu relativen Elementanzahlen

Wenn umgekehrt zu Alt-Rapanui-Wörtern Elementanzahlen gesucht werden, ist die folgende Liste hilfreich.

Diese Liste ist die zweite, die auch zum Schreiben von Rongorongo-Texten nützlich ist.

Wörter und zugehörige relative Elementanzahlen			
Wort: a	Elementanzahl 1% - 87%	Wort: moe	Elementanzahl 2% - 5%
Wort: ahi	Elementanzahl 1% - 2%	Wort: moko	Elementanzahl 1% - 3%
Wort: ahu	Elementanzahl 1% - 2%	Wort: motu	Elementanzahl 1% - 2%
Wort: ai	Elementanzahl 3% - 10%	Wort: na	Elementanzahl 3% - 9%
Wort: aka	Elementanzahl 1%	Wort: nape	Elementanzahl 2% - 5%
Wort: aku	Elementanzahl 1%	Wort: nei	Elementanzahl 2% - 5%
Wort: ana	Elementanzahl 4% - 14%	Wort: niu	Elementanzahl 1%
Wort: ao	Elementanzahl 1%	Wort: no	Elementanzahl 2% - 7%
Wort: ara	Elementanzahl 1% - 3%	Wort: nui	Elementanzahl 3% - 4%
Wort: ariki	Elementanzahl 5% - 16%	Wort: o	Elementanzahl 12% - 44%

Wort: ata	Elementanzahl 1% - 2%	Wort: oho	Elementanzahl 6% - 22%
Wort: atu	Elementanzahl 2% - 6%	Wort: one	Elementanzahl 1%
Wort: atua	Elementanzahl 1% - 3%	Wort: oti	Elementanzahl 3% - 8%
Wort: au	Elementanzahl 3% - 4%	Wort: pa	Elementanzahl 2% - 7%
Wort: ava	Elementanzahl 1%	Wort: papa	Elementanzahl 1% - 3%
Wort: e	Elementanzahl 14% - 54%	Wort: pau	Elementanzahl 1%
Wort: ea	Elementanzahl 2% - 4%	Wort: pe	Elementanzahl 1% - 2%
Wort: eko	Elementanzahl 1%	Wort: pei	Elementanzahl 1%
Wort: epe	Elementanzahl 1%	Wort: pierē	Elementanzahl 1%
Wort: ha	Elementanzahl 6% - 21%	Wort: piri	Elementanzahl 1%
Wort: haha	Elementanzahl 1%	Wort: pito	Elementanzahl 1%
Wort: hahau	Elementanzahl 1%	Wort: po	Elementanzahl 2% - 6%
Wort: haho	Elementanzahl 1%	Wort: poko	Elementanzahl 1%
Wort: hai	Elementanzahl 1%	Wort: poporo	Elementanzahl 1%
Wort: haka	Elementanzahl 6% - 20%	Wort: pu	Elementanzahl 3% - 8%
Wort: hanau	Elementanzahl 1% - 2%	Wort: pua	Elementanzahl 1% - 3%
Wort: hati	Elementanzahl 1%	Wort: pure	Elementanzahl 1% - 2%
Wort: hatu	Elementanzahl 1% - 2%	Wort: ra	Elementanzahl 6% - 21%
Wort: hau	Elementanzahl 4% - 13%	Wort: rakau	Elementanzahl 1%
Wort: he	Elementanzahl 26%-100%	Wort: rapa	Elementanzahl 1% - 2%
Wort: heke	Elementanzahl 1%	Wort: rapu	Elementanzahl 1%
Wort: here	Elementanzahl 1%	Wort: rara	Elementanzahl 1% - 2%
Wort: hetu	Elementanzahl 1% - 2%	Wort: rarama	Elementanzahl 1%
Wort: heu	Elementanzahl 1%	Wort: rau	Elementanzahl 3%
Wort: hi	Elementanzahl 3% - 8%	Wort: raua	Elementanzahl 1%
Wort: hiti	Elementanzahl 1%	Wort: rava	Elementanzahl 1%
Wort: hiva	Elementanzahl 2% - 4%	Wort: rei	Elementanzahl 2% - 5%
Wort: hoa	Elementanzahl 1% - 3%	Wort: rere	Elementanzahl 3% - 8%
Wort: hoki	Elementanzahl 1% - 3%	Wort: reva	Elementanzahl 1%
Wort: hoko	Elementanzahl 2%	Wort: roa	Elementanzahl 1% - 3%
Wort: honu	Elementanzahl 2% - 4%	Wort: roro	Elementanzahl 1%
Wort: hora	Elementanzahl 1%	Wort: roto	Elementanzahl 2% - 4%
Wort: hu	Elementanzahl 2% - 5%	Wort: rou	Elementanzahl 1%
Wort: hua	Elementanzahl 2% - 4%	Wort: rua	Elementanzahl 2% - 6%
Wort: huki	Elementanzahl 3% - 4%	Wort: ta	Elementanzahl 5% - 16%
Wort: hura	Elementanzahl 1%	Wort: taha	Elementanzahl 1%
Wort: huri	Elementanzahl 1% - 2%	Wort: tahi	Elementanzahl 1% - 3%
Wort: i	Elementanzahl 1% - 81%	Wort: tai	Elementanzahl 1% - 2%
Wort: ia	Elementanzahl 3% - 9%	Wort: taka	Elementanzahl 1%
Wort: ihe	Elementanzahl 3% - 4%	Wort: takaure	Elementanzahl 1%
Wort: ika	Elementanzahl 2% - 6%	Wort: tama	Elementanzahl 1%
Wort: ina	Elementanzahl 1%	Wort: tamahahine	Elementanzahl 1%
Wort: ira	Elementanzahl 2% - 7%	Wort: tangata	Elementanzahl 6% - 21%
Wort: iri	Elementanzahl 2% - 4%	Wort: tara	Elementanzahl 1% - 2%
Wort: iti	Elementanzahl 1% - 2%	Wort: taropa	Elementanzahl 1%
Wort: ka	Elementanzahl 12% - 45%	Wort: tata	Elementanzahl 1%
Wort: kahi	Elementanzahl 1%	Wort: tau	Elementanzahl 3% - 9%
Wort: kai	Elementanzahl 2% - 5%	Wort: te	Elementanzahl 54%-100%
Wort: kara	Elementanzahl 1%	Wort: tea	Elementanzahl 2% - 5%
Wort: kau	Elementanzahl 1% - 2%	Wort: teke	Elementanzahl 3% - 9%

Wort: kava	Elementanzahl 1% - 3%	Wort: tere	Elementanzahl 1%
Wort: ke	Elementanzahl 2% - 5%	Wort: ti	Elementanzahl 2% - 5%
Wort: ki	Elementanzahl 1% - 82%	Wort: tikea	Elementanzahl 1%
Wort: kia	Elementanzahl 3% - 9%	Wort: tiki	Elementanzahl 1%
Wort: kihikihi	Elementanzahl 1%	Wort: titiro	Elementanzahl 1%
Wort: ko	Elementanzahl 12% - 47%	Wort: to	Elementanzahl 6% - 23%
Wort: koia	Elementanzahl 2% - 5%	Wort: toa	Elementanzahl 1%
Wort: kona	Elementanzahl 1%	Wort: toki	Elementanzahl 1% - 3%
Wort: korua	Elementanzahl 1% - 2%	Wort: tomo	Elementanzahl 1%
Wort: ku	Elementanzahl 4% - 12%	Wort: topa	Elementanzahl 1%
Wort: kua	Elementanzahl 7% - 25%	Wort: toru	Elementanzahl 1%
Wort: kuhane	Elementanzahl 1% - 3%	Wort: tou	Elementanzahl 1% - 2%
Wort: kuku	Elementanzahl 1%	Wort: tu	Elementanzahl 8% - 29%
Wort: kumara	Elementanzahl 1%	Wort: tuki	Elementanzahl 1%
Wort: kura	Elementanzahl 1% - 2%	Wort: tuku	Elementanzahl 1%
Wort: ma	Elementanzahl 7% - 24%	Wort: tupu	Elementanzahl 1% - 2%
Wort: mai	Elementanzahl 10% - 36%	Wort: turu	Elementanzahl 1%
Wort: maitaki	Elementanzahl 1% - 3%	Wort: u	Elementanzahl 2% - 7%
Wort: mana	Elementanzahl 1%	Wort: ua	Elementanzahl 2% - 4%
Wort: manu	Elementanzahl 4% - 13%	Wort: uhi	Elementanzahl 1% - 2%
Wort: maori	Elementanzahl 1%	Wort: ui	Elementanzahl 2% - 7%
Wort: mara	Elementanzahl 1%	Wort: ura	Elementanzahl 1%
Wort: marama	Elementanzahl 2% - 4%	Wort: ure	Elementanzahl 1% - 2%
Wort: maro	Elementanzahl 2% - 5%	Wort: uri	Elementanzahl 1% - 2%
Wort: mata	Elementanzahl 2% - 6%	Wort: uru	Elementanzahl 1%
Wort: mau	Elementanzahl 2% - 7%	Wort: uta	Elementanzahl 2% - 5%
Wort: mau	Elementanzahl 1%	Wort: vae	Elementanzahl 3% - 4%
Wort: mea	Elementanzahl 2% - 4%	Wort: vaha	Elementanzahl 1% - 2%
Wort: miro	Elementanzahl 2% - 4%	Wort: vai	Elementanzahl 2% - 6%
Wort: mo	Elementanzahl 3% - 10%	Wort: vere	Elementanzahl 1%
Wort: moa	Elementanzahl 2% - 5%	Wort: viri	Elementanzahl 1%
Wort: moai	Elementanzahl 1% - 2%		

## 7. Lookup-Table: Schnittmenge von Silben/Partikeln und Wörtern

Gemeinsamkeiten der 1. und 3. Lookup-Table listet die folgende Tabelle auf.

Relative Elementanzahl aus Schnittmenge von Silben/Partikeln und Wörtern	
Elementanzahl 0% ,VO,	Elementanzahl 20% ,TU,TO,RA,HA,KO,KA,O,
Elementanzahl 1% ,AKU,	Elementanzahl 21% ,TU,TO,RA,HA,E,KO,KA,O,

Elementanzahl 2% ,NEI,	Elementanzahl 22% ,TU,E,KO,
Elementanzahl 4% ,PO,	Elementanzahl 23% ,E,
Elementanzahl 5% ,PO,TI,NO,PU,ANA,	Elementanzahl 24% ,KI,E,
Elementanzahl 6% ,PU,NO,PA,MO,HAKA,ANA,	Elementanzahl 25% ,KA,O,KI,E,
Elementanzahl 7% ,PU,AI,MO,NO,PA,HAKA,KUA,	Elementanzahl 26% - 29% ,KA,KO,O,KI,HE,
Elementanzahl 8% ,AI,MO,ANA,PU,HAKA,KUA,	Elementanzahl 30% ,KO,KA,O,E,KI,HE,
Elementanzahl 9% ,AI,MO,KUA,	Elementanzahl 31% - 32% ,KA,O,E,KI,HE,
Elementanzahl 10% ,AI,MO,KUA,MAI,	Elementanzahl 33% - 34% ,KA,E,KI,
Elementanzahl 11% ,MAI,	Elementanzahl 35% - 37% ,E,KI,
Elementanzahl 12% ,KU,	Elementanzahl 38% ,KI,
Elementanzahl 13% ,TO,TU,	Elementanzahl 44% - 53% ,I,
Elementanzahl 14% - 15% ,TO,	Elementanzahl 54% - 57% ,I,TE,
Elementanzahl 16% ,HA,TO,TU,	Elementanzahl 58% - 71% ,A,I,TE,
Elementanzahl 17% ,TO,TU,RA,HA,KO,	Elementanzahl 72% - 74% ,A,I,
Elementanzahl 18% ,TO,TU,RA,HA,KO,O,	Elementanzahl 75% - 87% ,A,
Elementanzahl 19% ,TO,TU,RA,HA,KO,KA,O,	

## 8. Lookup-Table: Verbesserte Zuordnung von Silbe zu Elementanzahl

Die 5. Lookup-Table erlaubt die genauere Eingrenzung der Intervalle der Zuordnung von Silben zu Elementanzahlen der 2. Lookup-Table.

Schnittmenge von Silben und Worten und relative Elementanzahlen				Intervall
<b>Silbe: a</b>	Elementanzahl 58% - 100%	Wort: A	Elementanzahl 58% - 87%	<b>58% - 87%</b>
<b>Silbe: ai</b>	Elementanzahl 7% - 12%	Wort: AI	Elementanzahl 7% - 10%	<b>7% - 10%</b>
<b>Silbe: aku</b>	Elementanzahl 1%	Wort: AKU	Elementanzahl 1%	<b>1%</b>
<b>Silbe: ana</b>	Elementanzahl 5% - 8%	Wort: ANA	Elementanzahl 5% - 8%	<b>5% - 8%</b>
<b>Silbe: e</b>	Elementanzahl 21% - 37%	Wort: E	Elementanzahl 21% - 37%	<b>21% - 37%</b>
<b>Silbe: ha</b>	Elementanzahl 16% - 28%	Wort: HA	Elementanzahl 16% - 21%	<b>16% - 21%</b>
<b>Silbe: haka</b>	Elementanzahl 5% - 8%	Wort: HAKA	Elementanzahl 6% - 8%	<b>6% - 8%</b>
<b>Silbe: he</b>	Elementanzahl 18% - 32%	Wort: HE	Elementanzahl 26% - 32%	<b>26% - 32%</b>
<b>Silbe: hi</b>	Elementanzahl 9% - 15%			<b>9% - 15%</b>
<b>Silbe: ho</b>	Elementanzahl 13% - 22%			<b>13% - 22%</b>
<b>Silbe: hu</b>	Elementanzahl 6% - 10%			<b>6% - 10%</b>
<b>Silbe: i</b>	Elementanzahl 41% - 74%	Wort: I	Elementanzahl 44% - 74%	<b>44% - 74%</b>
<b>Silbe: ina</b>	Elementanzahl 1% - 2%			<b>1% - 2%</b>
<b>Silbe: ka</b>	Elementanzahl 19% - 34%	Wort: KA	Elementanzahl 19% - 34%	<b>19% - 34%</b>
<b>Silbe: ke</b>	Elementanzahl 6% - 9%			<b>6% - 9%</b>
<b>Silbe: ki</b>	Elementanzahl 24% - 43%	Wort: KI	Elementanzahl 24% - 38%	<b>24% - 38%</b>
<b>Silbe: kia</b>	Elementanzahl 2%			<b>2%</b>
<b>Silbe: ko</b>	Elementanzahl 17% - 30%	Wort: KO	Elementanzahl 17% - 30%	<b>17% - 30%</b>
<b>Silbe: ku</b>	Elementanzahl 12% - 20%	Wort: KU	Elementanzahl 12%	<b>12% - 20%</b>
<b>Silbe: kua</b>	Elementanzahl 6% - 10%	Wort: KUA	Elementanzahl 7% - 10%	<b>7% - 10%</b>
<b>Silbe: ma</b>	Elementanzahl 27% - 48%			<b>27% - 48%</b>
<b>Silbe: mai</b>	Elementanzahl 7% - 11%	Wort: MAI	Elementanzahl 10% - 11%	<b>10% - 11%</b>
<b>Silbe: me</b>	Elementanzahl 2% - 3%			<b>2% - 3%</b>
<b>Silbe: mi</b>	Elementanzahl 1% - 2%			<b>1% - 2%</b>
<b>Silbe: mo</b>	Elementanzahl 6% - 10%	Wort: MO	Elementanzahl 6% - 10%	<b>6% - 10%</b>
<b>Silbe: mu</b>	Elementanzahl 1%			<b>1%</b>
<b>Silbe: na</b>	Elementanzahl 11% - 18%			<b>11% - 18%</b>
<b>Silbe: ne</b>	Elementanzahl 4% - 5%			<b>4% - 5%</b>
<b>Silbe: nei</b>	Elementanzahl 2%	Wort: NEI	Elementanzahl 2%	<b>2%</b>
<b>Silbe: nga</b>	Elementanzahl 17% - 29%			<b>17% - 29%</b>
<b>Silbe: nge</b>	Elementanzahl 0% - 1%			<b>0% - 1%</b>
<b>Silbe: ngi</b>	Elementanzahl 4% - 6%			<b>4% - 6%</b>
<b>Silbe: ngo</b>	Elementanzahl 2% - 3%			<b>2% - 3%</b>
<b>Silbe: ngu</b>	Elementanzahl 1%			<b>1%</b>
<b>Silbe: ni</b>	Elementanzahl 1%			<b>1%</b>
<b>Silbe: no</b>	Elementanzahl 5% - 8%	Wort: NO	Elementanzahl 5% - 7%	<b>5% - 7%</b>
<b>Silbe: nu</b>	Elementanzahl 10% - 16%			<b>10% - 16%</b>
<b>Silbe: o</b>	Elementanzahl 18% - 32%	Wort: O	Elementanzahl 18% - 32%	<b>18% - 32%</b>
<b>Silbe: pa</b>	Elementanzahl 6% - 9%	Wort: PA	Elementanzahl 6% - 7%	<b>6% - 7%</b>
<b>Silbe: pe</b>	Elementanzahl 3% - 4%			<b>3% - 4%</b>
<b>Silbe: pi</b>	Elementanzahl 2% - 3%			<b>2% - 3%</b>
<b>Silbe: po</b>	Elementanzahl 3% - 5%	Wort: PO	Elementanzahl 4% - 5%	<b>4% - 5%</b>
<b>Silbe: pu</b>	Elementanzahl 5% - 8%	Wort: PU	Elementanzahl 5% - 8%	<b>5% - 8%</b>
<b>Silbe: ra</b>	Elementanzahl 17% - 30%	Wort: RA	Elementanzahl 17% - 21%	<b>17% - 21%</b>
<b>Silbe: re</b>	Elementanzahl 11% - 19%			<b>11% - 19%</b>
<b>Silbe: ri</b>	Elementanzahl 10% - 18%			<b>10% - 18%</b>
<b>Silbe: ro</b>	Elementanzahl 10% - 16%			<b>10% - 16%</b>
<b>Silbe: ru</b>	Elementanzahl 8% - 13%			<b>8% - 13%</b>
<b>Silbe: ta</b>	Elementanzahl 25% - 5%			<b>25% - 5%</b>
<b>Silbe: te</b>	Elementanzahl 39% - 71%	Wort: TE	Elementanzahl 54% - 71%	<b>54% - 71%</b>
<b>Silbe: ti</b>	Elementanzahl 5% - 9%	Wort: TI	Elementanzahl 5%	<b>5% - 9%</b>

<b>Silbe: to</b>	Elementanzahl 12% - 21%	Wort: TO	Elementanzahl 13% - 21%	<b>13% - 21%</b>
<b>Silbe: tu</b>	Elementanzahl 13% - 22%	Wort: TU	Elementanzahl 13% - 22%	<b>13% - 22%</b>
<b>Silbe: u</b>	Elementanzahl 23% - 41%			<b>23% - 41%</b>
<b>Silbe: va</b>	Elementanzahl 8% - 14%			<b>8% - 14%</b>
<b>Silbe: ve</b>	Elementanzahl 2% - 3%			<b>2% - 3%</b>
<b>Silbe: vi</b>	Elementanzahl 1%			<b>1%</b>
<b>Silbe: vo</b>	Elementanzahl 0% - 1%	Wort: VO	Elementanzahl 0%	<b>0% - 1%</b>

## 9. Lookup-Table: Grafische Elemente der Rongorongo-Glyphen

Zur Bestimmung der häufigsten grafischen Elemente einer Tafel können die Elementnummern gemäß der ersten Liste verwendet werden. Die folgende Lookup-Table erlaubt, das Aussehen des Elementes gemäß seiner Elementnummer zu finden.

Es gibt zwei Tabellen.

Die erste Tabelle zeigt aufsteigend sortiert zu allen Elementnummern das grafische Aussehen des jeweiligen Elementes.


























Diese Tabelle ist also für den ersten Auswertungsschritt einer Rongorongo-Tafel nützlich.
























Die zweite Tabelle enthält nur Elementnummern, die mehrere ähnliche Elemente bezeichnen.

Diese Tabelle ist also für den zweiten Auswertungsschritt nützlich.
























Die Tabellen bieten auch Leerraum für weitere manuelle Einträge und sind somit als Arbeitsblätter geeignet.
























### 9.1. Liste aller grafischen Elemente aufsteigend sortiert nach Elementnummern
























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E15	
E16	 MANU
E17	
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E19	 
E20	
E21	
E22	 
























E23	
E24	
E25	
E26	 HETU RA AHI
E27	
E28	
E29	
E30	
E31	
E32	 HAKA
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E43	
E44	
E45	 IKA

















































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
















E69	
E70	
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E72	 TE HENUA NO HOTU MATUA
E73	
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E75	 MAUI
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E77	
E78	 RANGI
E79	 HONU
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E81	 KOTI
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E90	
E91	 MOAI
























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E100	 KOMARI	
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E103	 REI MIRO	
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E109	 MOA	
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E113	 REI MIRO	
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E123		MAKEMAKE TIKI
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E133		ROTIA HENUA HATI
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E136		VAKA
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














E138	 ATUA
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



















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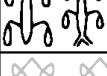






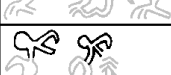

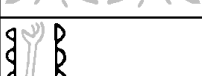







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





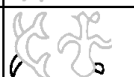


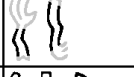




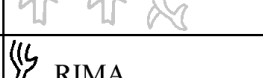
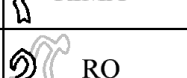












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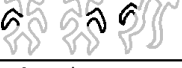






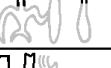


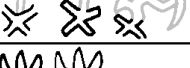





E276		
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E278	HETU RA AHI	
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E291	TE HENUA O HOTU MATUA	
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E343	 RIMA
E344	 RO







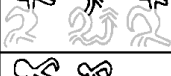









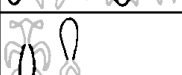



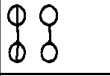


E345		MOAI
E346		KO (RO)RONGO
E347		ATUA
E348		
E349		
E350		
E351		MOAI
E352		MOAI











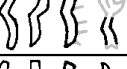
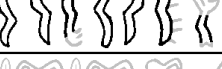
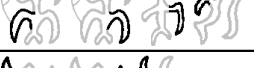


## 9.2. Aufsteigend sortierte Liste der sich ähnelnden Elemente

E19	
E22	
E23	
E24	
E69	
E116	
E203	
E265	
E266	
E267	
E268	
E269	
E270	
E271	
E274	
E275	
E276	
E277	
E278	 HETU RA AHI
E279	
E280	
E281	
E282	

E283	
E284	
E285	
E286	
E287	
E288	
E289	
E290	
E291	TE HENUA O HOTU MATUA
E292	
E293	
E294	
E295	
E296	
E297	
E298	
E299	
E300	
E301	
E302	
E303	
E304	
E305	



E306	
E307	
E308	
E309	
E310	
E311	
E312	
E313	
E314	
E315	
E316	
E317	
E318	
E319	
E320	
E321	
E322	
E323	
E324	
E325	
E326	
E327	
E328	

E329	
E330	
E331	
E332	
E333	
E334	
E335	
E336	
E337	
E338	
E339	
E340	
E341	
E342	
E350	

### 9.3. Nach Themen sortierte Elemente











War die vorhergehenden Listen der Lookup-Table 7 eher zum Schreiben geeignet sind, so soll nun das Analysieren, Auffinden und Lesen der Glyphen ermöglicht werden, indem die Elemente thematisch sortiert werden.

Die Einteilung in Köpfe, Arme, Beine etc ist natürlich willkürlich und man kann über die Zuordnung streiten, aber das Auffinden der Elemente wird dadurch deutlich erleichtert.

Die Elemente sind hier absteigend nach Häufigkeit gemäß der Tafel ARUKU KURENGA sortiert, um das Nachschlagen in den anderen Lookup-Tables zu erleichtern.














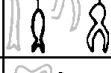









#### 9.3.1. Verbindungen














Diese Tabelle enthält Elemente die Glyphen zu Ligaturen verbinden.

264	E270	
170	E179	
151	E284	
122	E268	
94	E153	
37	E74	
28	E155	
25	E175	
4	E273	
1	E77	

#### 9.3.2. Anhängsel










Diese Tabelle enthält Elemente, die grundsätzlich als Ergänzung zu anderen Elementen vorkommen und kaum eigenständig auftreten.

141	E272	
141	E271	
78	E63	
63	E64	
43	E276	
34	E165	
13	E200	
13	E203	
11	E214	
11	E302	
9	E90	
9	E128	
8	E178	
7	E326	
6	E169	
6	E300	
5	E73	
5	E91	
5	E248	
5	E107	
5	E308	
5	E301	
4	E251	




















4	E202	
4	E310	
3	E237	
3	E230	
3	E221	
3	E129	
2	E46	
2	E227	
2	E201	
2	E135	
1	E223	
1	E216	
0	E130	

### 9.3.3. Köpfe

Diese Tabelle enthält Köpfe oder mit Köpfen in Verbindung stehende Elemente.





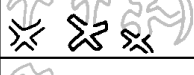












139	E19	
136	E266	
135	E1	
131	E7	
106	E267	
103	E56	
78	E9	
75	E10	
69	E274	

51	E29	
43	E281	
42	E11	
40	E43	
35	E17	
29	E212	
24	E320	
21	E92	
20	E289	
19	E52	
18	E218	
18	E141	
17	E86	
13	E295	
12	E158	
11	E163	
8	E8	
8	E33	
8	E215	
6	E233	
6	E304	
6	E296	
5	E38	

5	E225	
5	E118	
4	E312	
6	E116	
3	E66	
3	E157	
3	E139	
2	E112	
2	E137	
2	E314	
2	E313	
1	E115	
1	E232	
1	E194	
1	E193	
1	E156	
1	E154	
1	E140	
1	E123	 MAKEMAKE TIKI

### 9.3.4. Rumpfe

Normalerweise gibt es keine Rumpfformen bei Figuren in Frontalansicht. Diese Tabelle enthält jedoch spezielle Rumpfformen in anderen Darstellungen.





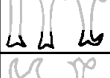
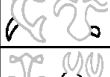














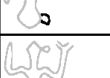


76	E280	
72	E323	
69	E34	
54	E152	
51	E277	
32	E88	
30	E224	
29	E39	
21	E205	 = E152
18	E204	
17	E42	
11	E120	
10	E144	
9	E108	
7	E20	
5	E76	
3	E48	

### 9.3.5. Beine

Diese Tabelle enthält Beine oder ähnliche Elemente.














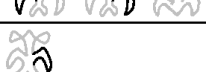

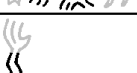




338	E24	
190	E4	
148	E5	
115	E6	









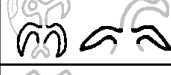







































109	E35	
104	E21	
94	E27	
46	E15	
29	E321	
25	E334	
24	E331	
22	E85	
20	E159	
18	E117	
16	E145	
13	E41	
10	E122	
8	E176	
6	E335	
5	E241	
5	E124	
4	E195	
2	E246	
2	E160	
2	E336	
1	E240	
1	E186	

### 9.3.6. Arme

Diese Tabelle enthält Arme oder ähnliche Elemente.



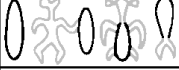




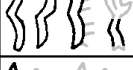











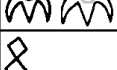

301	E265	
248	E22	
209	E2	
98	E121	
73	E32	 HAKA
65	E318	
61	E126	
59	E337	
58	E283	
53	E40	
51	E282	
45	E324	
44	E181	
43	E330	
39	E3	
38	E287	
37	E51	
36	E279	
35	E50	
31	E292	










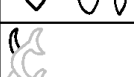













29	E55	
29	E285	
28	E23	
24	E325	
23	E333	
21	E18	
20	E69	
19	E44	
17	E290	
16	E49	
16	E89	
16	E183	
16	E180	
16	E14	
15	E229	
15	E12	
14	E343	 RIMA
13	E13	
12	E54	
12	E184	
8	E199	
7	E47	
7	E191	
























7	E177	
5	E307	
5	E306	
4	E68	
4	E170	
4	E317	
4	E309	
3	E244	
3	E211	
3	E147	
2	E93	
2	E243	
2	E242	
2	E151	
2	E235	
1	E59	
1	E247	
1	E245	
1	E236	
1	E192	
1	E190	
1	E148	
1	E146	









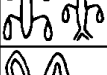














### 9.3.7. Zeichen

Diese Tabelle enthält abstrakte Zeichen und Logogramme bzw Zeichen, die wahrscheinlich Logogramme, vielleicht auch Namen darstellen.
























108	E340	
104	E269	
102	E322	
89	E166	
65	E338	
59	E275	
49	E134	
43	E339	
41	E342	
39	E332	
39	E319	
39	E316	
38	E71	
35	E197	
31	E231	
26	E238	
6	E26	 HETU RA AHI
25	E127	
25	E286	
25	E278	 HETU RA AHI
24	E70	























24	E104		
24	E288		
23	E58		
23	E57		
22	E206		
21	E132		
20	E78	 RANGI	
20	E106		
19	E119	 RA AHI HETU	
19	E329		
17	E105		
17	E45	 IKA	
16	E255		
16	E16	 MANU	
15	E249		
15	E110		
15	E291	 TE HENUA O HOTU MATUA	
14	E72	 TE HENUA NO HOTU MATUA	
14	E253		
14	E293		
12	E164		
12	E100	 KOMARI	
12	E311		

12	E294		
11	E114		
11	E113	 REI MIRO	
11	E95		
11	E87		
11	E80		
11	E213		
11	E208		
10	E98		
10	E161		
10	E109	 MOA	
9	E99		
9	E30		
9	E28		
9	E196		
9	E103	 REI MIRO	
9	E298		
8	E96		
8	E81	 KOTI	
8	E260		
8	E328		
8	E299		
7	E67		

7	E53		
7	E297		
6	E26	 HETU RA AHI	
6	E173		
6	E167		
5	E82		
5	E210		
5	E327		
5	E305		
5	E303		
4	E257		
4	E226		
4	E220		
4	E209		
4	E207		
4	E198		
4	E188		
4	E162		
4	E254		
3	E0	 TANGATA ARIKI	
3*	E75	 MAUI * hochgerechnet	
3	E97		
3	E61		



3	E37		
3	E36		
3	E25		
3	E219		
3	E174		
3	E125		
2	E239		VAI
2	E79		HONU
2	E60		
2	E263		
2	E261		
2	E259		
2	E258		
2	E234		
2	E222		
2	E217		
2	E189		
2	E185		
2	E172		
2	E171		
2	E168		
2	E150		
2	E142		

2	E133	 ROTIA HENUA HATI
2	E315	
1	E256	
1	E111	
1	E62	 MATA
1	E94	
1	E83	
1	E65	
1	E31	
1	E264	
1	E262	
1	E252	
1	E250	
1	E228	
1	E187	
1	E182	
1	E149	
1	E143	
1	E136	 VAKA
1	E131	
1	E102	
1	E101	


## Daten der Rongorongo-Tafeln

Die vorangehenden Listen dienen der Auswertung weiterer Rongorongo-Tafeln. Wäre diese Auswertung bereits abgeschlossen, so könnten die Daten hier erscheinen.

Es wurden die vermutlich häufigsten Elemente der nachfolgend genannten Tafeln ausgezählt und die maximale Anzahl aller ähnlichen Elemente summiert. Deshalb gibt es für die Auswertung eines Elementes, das auch in einer Menge ähnlicher Elemente enthalten ist zwei Möglichkeiten:

1. Die relative Prozentzahl des Elementes bezüglich der Anzahl des häufigsten Einzelelementes wird für die Auswertung verwendet.
2. Die relative Prozentzahl des Elementes bezüglich der maximalen Anzahl der Menge der häufigsten sich ähnelnden Elemente wird für die Auswertung verwendet.

Das ergibt natürlich verschiedene Zuordnungen zu Silben und Wörtern, hilft aber gegebenenfalls dem Verständnis der Rongorongo-Schrift.

### Auszählungen der Tafeln

Tafel	Klarname	Maximale Elementanzahl		Faktor
		Einzelelement	ähnliche Elemente	
Tablet A	Tahua	280 x E7	454 x *E19	1.62
Tablet B	Aruku Kurenga	209 x E2	338 x *E24	1.62
Tablet C	Mamari	177 x E7	336 x *E19	1.90
Tablet D	Échancrée	56 x E7	101 x *E19	1.80
Tablet E	Keiti	152 x E7	256 x *E19	1.68
Tablet G	Small Santiago Tablet	98 x E7	179 x *E19	1.83
Tablet H	Great Santiago Tablet	256 x E7	464 x *E19	1.81
Tablet I	Santiago Staff			
Tablet P	Great St. Petersburg			
Tablet Q	Small St. Petersburg			
Tablet R	Atua-Mata-Riri			
Tablet S	Great Washington			
	<b>Summen</b>			---
	<b>Mittelwerte</b>		<b>+/-0.105</b>	<b>1.75</b>

Es zeigt sich, daß immer wieder dieselben Elemente in den Tafeln am häufigsten vorkommen.






Um schnell eine Auswertungsbasis für eine Tafel zu bekommen und einige Tests machen zu können genügt es, die folgenden Elemente in dieser Tafel zu zählen.

## Zählhilfen










Die als Zählhilfen dienende Elemente sollten vorweg gezählt werden, da dies die Bestimmung der Anzahl der relevanten Elemente erleichtert.

**Hinweis:** Als Zählhilfen dienende Elemente sind **fett** gedruckt oder **GRAU** unterlegt.






### Augen

Element	Symbol	Strichliste
<b>E9</b> =.....		
E7= <b>E9</b> +.....=.....		
E8= <b>E9</b> +.....=.....		
*E19= <b>E7</b> +E8=.....	 	

### Arme

<b>E18</b> =.....		
E2= <b>E18</b> +.....=.....		
E3= <b>E18</b> +.....=.....		
E40=.....		
*E22= <b>E2</b> +E3=.....	 	
*E265= <b>*E22</b> +E40=.....	  	


### Beine

<b>E6</b> =.....		
E4= <b>E6</b> +.....=.....		
E5= <b>E6</b> +.....=.....		
*E24= <b>E4</b> +E5=.....	 	

## Logogramme zum Testen

Folgende bekannten Logogramme eignen sich zum Testen der Zählungen:

### TANGATA

E0=. . . . .		
--------------	---	--

### REI MIRO

E103=. . . . .		
E113=E103+. . . . .=. . . . .		

## Quellen

- [1] Wolf Scheuermann: Grafische Elemente der Rongorongo-Glyphen. Untersuchung der Tafel ARUKU KURENGA zur Zuordnung von Rapanui zu Rongorongo. v9-1.5  
PDF-Dateien auf: <https://www.academia.edu>,  
Forschungskontor, [www.Forschungskontor.de](http://www.Forschungskontor.de)  
Hamburg 2024
- [2] Wolf Scheuermann: Alt-Rapanui. v4  
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Hamburg 2024

# Anhang

## Zur Berechnung der Listen verwendete Programme in Qbasic™.

```
'DENSE.BAS
'Hilfsprogramm zum Verdichten der Ergebnisse
'Kapt.Wolf Scheuermann

CLS
OPEN "SILBZORD.TXT" FOR INPUT AS #1      'Datei mit doppeltem Inhalt
'OPEN "WORTZUEL.TXT" FOR INPUT AS #1     'Datei mit doppeltem Inhalt
'OPEN "SCHNITT.TXT" FOR INPUT AS #1      'Datei mit doppeltem Inhalt
OPEN "TEST6.TXT" FOR OUTPUT AS #2        'vereinfachter Inhalt
LINE INPUT #1, z1$
LINE INPUT #1, z2$
LINE INPUT #1, z3$
PRINT z1$
PRINT z2$
PRINT #2, z1$
PRINT #2, z2$
WHILE NOT EOF(1)
  LINE INPUT #1, z4$
  LINE INPUT #1, z5$
  LINE INPUT #1, z6$

  IF z2$ <> z5$ THEN
    PRINT ""
    PRINT #2, ""
    PRINT z4$
    PRINT #2, z4$
    z$ = LEFT$(z5$, LEN(z5$))' - 1)
    PRINT z$
    PRINT #2, z$
  ELSE
    PRINT "  -----"
    PRINT #2, "  -----"
  END IF

  z1$ = z4$
  z2$ = z5$
  z3$ = z6$
WEND
CLOSE #2
CLOSE #1
END
```

```
'ELEMENTS.BAS
'Kapt.Wolf Scheuermann

CLS
OPEN "ELEMENTS.TXT" FOR OUTPUT AS #1
FOR i = 0 TO 351
  PRINT #1, "  E" + STR$(i),
  PRINT #1, ""
NEXT
CLOSE #1
END
```

```
'ELZUSILB.BAS
'Hilfsprogramm zum Zuordnen der Silben zu Elementanzahlen
'Kapt.Wolf Scheuermann

DIM Si(70) AS STRING

'Alt-Rapanui-Silben und Partikel
DATA "haka"
DATA "mai"
DATA "kua"
DATA "ana"
DATA "ngi"
DATA "ngo"
DATA "kia"
DATA "nei"
DATA "ina"
DATA "aku"
DATA "ngu"
DATA "nge"
DATA "hea"
DATA "kei"
DATA "aia"
DATA "nga"
DATA "te"
DATA "ma"
DATA "ta"
DATA "ki"
DATA "ka"
DATA "he"
DATA "ko"
DATA "xa"
DATA "ha"
DATA "ho"
DATA "tu"
```

```

DATA "to"
DATA "ku"
DATA "xe"
DATA "na"
DATA "xi"
DATA "nu"
DATA "xo"
DATA "hi"
DATA "va"
DATA "xu"
DATA "ai"
DATA "hu"
DATA "mo"
DATA "ke"
DATA "pa"
DATA "ti"
DATA "no"
DATA "pu"
DATA "ne"
DATA "po"
DATA "pe"
DATA "pi"
DATA "me"
DATA "ve"
DATA "mi"
DATA "ni"
DATA "vi"
DATA "mu"
DATA "vo"
DATA "a"
DATA "i"
DATA "u"
DATA "e"
DATA "o"
s = 61

FOR i = 1 TO s
  READ Si(i)
  'Si(i) = UCASE$(Si(i)) 'für Silben in Großschreibung
  Si(i) = "," + Si(i) + ","
NEXT

CLS
OPEN "TEST8.TXT" FOR OUTPUT AS #2 'Ausgabedatei

FOR i = 1 TO s
  OPEN "TEST7.TXT" FOR INPUT AS #1 'Datei "0-Elemente zu Silben.txt"
  OPEN "TEST.TXT" FOR OUTPUT AS #3 'bearbeitete Datei "TEST.TXT"
  PRINT ""
  PRINT #2, ""
  PRINT "Silbe: "; Si(i)
  PRINT #2, "Silbe: "; Si(i)
  WHILE NOT EOF(1)
    LINE INPUT #1, z1$
    LINE INPUT #1, z2$
    LINE INPUT #1, z3$
    IF INSTR(z2$, Si(i)) THEN
      PRINT z2$, Si(i)
      PRINT z1$
      PRINT #2, z1$
      MID$(z2$, INSTR(z2$, Si(i)), LEN(Si(i))) = ",,,,,,"
      PRINT #3, z1$
      PRINT #3, z2$
      PRINT #3, z3$
    ELSE
      PRINT #3, z1$
      PRINT #3, z2$
      PRINT #3, z3$
    END IF
  WEND
  CLOSE #1
  CLOSE #3
  SHELL "DEL TEST7.TXT"
  SHELL "COPY TEST.TXT TEST7.TXT"
NEXT
CLOSE #2
END

```

### 'ELZUWORT.BAS

```

'Hilfsprogramm zum Zuordnen der Silben zu Elementanzahlen
'Kapt.Wolf Scheuermann
'26.Mai.2024

```

```

DIM Si(800) AS STRING

```

```

'Alt-Rapanui-Worte

```

```

DATA "tamahahine"
DATA "hakurakura"
DATA "hakaheuru"
DATA "veveveve"
DATA "verovero"
DATA "veriveri"
DATA "vekeveke"
DATA "varavara"
DATA "vanavana"
DATA "turuturu"
DATA "tukituki"
DATA "toromiro"
DATA "toritori"
DATA "toretore"

```



DATA "tokotoko"  
DATA "teketeke"  
DATA "tarotaro"  
DATA "takatore"  
DATA "takataka"  
DATA "zukuruku"  
DATA "roturotu"  
DATA "rivariva"  
DATA "ritorito"  
DATA "rikiriki"  
DATA "revareva"  
DATA "retoreto"  
DATA "rerorero"  
DATA "remereme"  
DATA "zakerake"  
DATA "punipuni"  
DATA "pukupuku"  
DATA "poroporo"  
DATA "pokopoko"  
DATA "piripiri"  
DATA "pekapeka"  
DATA "pakipaki"  
DATA "pakakina"  
DATA "nehunehu"  
DATA "nehenehe"  
DATA "mukomuko"  
DATA "miritonu"  
DATA "matariki"  
DATA "matamata"  
DATA "marumaru"  
DATA "marikuru"  
DATA "maramara"  
DATA "makemake"  
DATA "koromaki"  
DATA "konakona"  
DATA "kivakiva"  
DATA "kinokino"  
DATA "kikiikihi"  
DATA "kerereki"  
DATA "kerekere"  
DATA "kapuapua"  
DATA "kahukahu"  
DATA "huruhuru"  
DATA "hukahuka"  
DATA "havahava"  
DATA "harahara"  
DATA "hakahahi"  
DATA "tupuaki"  
DATA "tomatou"  
DATA "tokorua"  
DATA "tokerau"  
DATA "taoraha"  
DATA "tangata"  
DATA "tamaroa"  
DATA "takaure"  
DATA "takapau"  
DATA "rauhiva"  
DATA "omotohi"  
DATA "nuahine"  
DATA "matakao"  
DATA "maruaki"  
DATA "maripau"  
DATA "manavai"  
DATA "maitaki"  
DATA "maikuku"  
DATA "hakahehu"  
DATA "hakaere"  
DATA "hakaere"  
DATA "hakaehu"  
DATA "atariki"  
DATA "ananake"  
DATA "vevete"  
DATA "veveke"  
DATA "uriuri"  
DATA "tuturi"  
DATA "tutuma"  
DATA "tutuhi"  
DATA "tureme"  
DATA "tupuna"  
DATA "tuitui"  
DATA "totoro"  
DATA "totohu"  
DATA "toremo"  
DATA "toraua"  
DATA "tomaua"  
DATA "titiro"  
DATA "titeve"  
DATA "teterere"  
DATA "teatea"  
DATA "taviri"  
DATA "tavake"  
DATA "tautau"  
DATA "taueve"  
DATA "tauaki"  
DATA "tataku"  
DATA "tataki"  
DATA "tatake"  
DATA "tarupu"  
DATA "taropa"  
DATA "tapani"  
DATA "tahuti"  
DATA "tahuri"

DATA "tahito"  
DATA "taheta"  
DATA "roaroa"  
DATA "rauoho"  
DATA "rarama"  
DATA "raraku"  
DATA "putiti"  
DATA "pureva"  
DATA "pupura"  
DATA "pupuhi"  
DATA "puapua"  
DATA "poreko"  
DATA "poporo"  
DATA "pohutu"  
DATA "poepoe"  
DATA "pehiva"  
DATA "paupau"  
DATA "patiri"  
DATA "paroko"  
DATA "parera"  
DATA "papare"  
DATA "papaku"  
DATA "papaku"  
DATA "pahera"  
DATA "oneone"  
DATA "omaoma"  
DATA "nonoma"  
DATA "naunau"  
DATA "muraki"  
DATA "morore"  
DATA "momoko"  
DATA "moamoa"  
DATA "matuku"  
DATA "matiro"  
DATA "matara"  
DATA "matau"  
DATA "mataki"  
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DATA "marere"  
DATA "marama"  
DATA "maniri"  
DATA "manava"  
DATA "manana"  
DATA "mamari"  
DATA "makohe"  
DATA "makere"  
DATA "mahute"  
DATA "mahore"  
DATA "mahora"  
DATA "mahina"  
DATA "maharo"  
DATA "mahani"  
DATA "mahana"  
DATA "maemae"  
DATA "kumara"  
DATA "kukumu"  
DATA "kuhane"  
DATA "koviro"  
DATA "kovare"  
DATA "koreha"  
DATA "kokeka"  
DATA "kokore"  
DATA "kokoma"  
DATA "kokohu"  
DATA "kiakia"  
DATA "keukeu"  
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DATA "kaukau"  
DATA "kauatu"  
DATA "katiki"  
DATA "kariti"  
DATA "karava"  
DATA "kakaro"  
DATA "kakari"  
DATA "kakara"  
DATA "kai kai"  
DATA "kahara"  
DATA "huehue"  
DATA "hotake"  
DATA "horeko"  
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DATA "heruru"  
DATA "heriki"  
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DATA "kakau"  
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DATA "hauva"  
DATA "hauru"  
DATA "hapai"  
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DATA "vere"  
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DATA "vare"  
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DATA "vaha"  
DATA "uira"  
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DATA "piri"  
DATA "pipi"  
DATA "piko"  
DATA "piki"  
DATA "pere"  
DATA "pera"  
DATA "pepe"  
DATA "pene"  
DATA "peke"  
DATA "pava"  
DATA "patu"  
DATA "pato"  
DATA "pari"  
DATA "pare"  
DATA "para"  
DATA "papa"  
DATA "paku"  
DATA "paka"  
DATA "otea"  
DATA "oira"  
DATA "ohio"  
DATA "nono"  
DATA "nohu"  
DATA "nire"  
DATA "nini"  
DATA "niho"  
DATA "nihi"  
DATA "nene"  
DATA "neke"  
DATA "nehe"  
DATA "nave"  
DATA "nape"  
DATA "nako"  
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DATA "muko"  
DATA "motu"  
DATA "more"  
DATA "moko"  
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DATA "mimi"  
DATA "maui"  
DATA "maua"  
DATA "matu"  
DATA "mate"  
DATA "mata"  
DATA "maro"  
DATA "mare"  
DATA "maza"  
DATA "maoa"  
DATA "manu"  
DATA "mana"  
DATA "mama"  
DATA "maki"  
DATA "mahu"  
DATA "kura"  
DATA "kupu"  
DATA "kumi"  
DATA "kume"  
DATA "kuku"  
DATA "kuki"  
DATA "koro"  
DATA "kori"  
DATA "kore"  
DATA "kopu"  
DATA "kope"  
DATA "kona"  
DATA "komo"  
DATA "koka"  
DATA "koa"  
DATA "kohe"  
DATA "koau"  
DATA "kiva"  
DATA "kiri"  
DATA "kino"  
DATA "kimi"  
DATA "kiko"  
DATA "kiki"  
DATA "ketu"  
DATA "kete"  
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DATA "keri"  
DATA "kere"  
DATA "kenu"  
DATA "kena"  
DATA "keke"  
DATA "kehu"  
DATA "keho"  
DATA "kave"  
DATA "kava"  
DATA "katu"  
DATA "kato"  
DATA "karu"  
DATA "karo"  
DATA "kara"  
DATA "kane"  
DATA "kahu"  
DATA "kahi"  
DATA "kaha"

DATA "huti"  
DATA "huru"  
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DATA "hura"  
DATA "hupe"  
DATA "hune"  
DATA "humu"  
DATA "huki"  
DATA "huka"  
DATA "huhu"  
DATA "hove"  
DATA "horo"  
DATA "hora"  
DATA "hopu"  
DATA "honu"  
DATA "hoko"  
DATA "hoki"  
DATA "hiva"  
DATA "hiti"  
DATA "hiro"  
DATA "hiri"  
DATA "hina"  
DATA "hiku"  
DATA "hiko"  
DATA "hiki"  
DATA "hika"  
DATA "hihi"  
DATA "heva"  
DATA "hetu"  
DATA "heru"  
DATA "here"  
DATA "heke"  
DATA "heka"  
DATA "haua"  
DATA "hatu"  
DATA "hati"  
DATA "hata"  
DATA "haro"  
DATA "hana"  
DATA "hami"  
DATA "haka"  
DATA "haho"  
DATA "hahi"  
DATA "haha"  
DATA "eoeo"  
DATA "avai"  
DATA "auau"  
DATA "atua"  
DATA "akau"  
DATA "vai"  
DATA "vae"  
DATA "uto"  
DATA "uta"  
DATA "uru"  
DATA "uri"  
DATA "ure"  
DATA "ura"  
DATA "upa"  
DATA "unu"  
DATA "umu"  
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DATA "uku"  
DATA "uka"  
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DATA "uha"  
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DATA "tou"  
DATA "toe"  
DATA "toa"  
DATA "tia"  
DATA "tea"  
DATA "tau"  
DATA "tai"  
DATA "rua"  
DATA "rou"  
DATA "roe"  
DATA "roa"  
DATA "riu"  
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DATA "reo"  
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DATA "rau"  
DATA "rao"  
DATA "pua"  
DATA "pou"  
DATA "poa"  
DATA "pia"  
DATA "pei"  
DATA "pea"  
DATA "pau"  
DATA "pae"  
DATA "oti"  
DATA "oru"  
DATA "oro"  
DATA "ora"  
DATA "one"  
DATA "omo"  
DATA "oko"  
DATA "oka"  
DATA "ohu"  
DATA "oho"  
DATA "ohi"

DATA "ohe"  
DATA "nui"  
DATA "nua"  
DATA "niu"  
DATA "nei"  
DATA "nau"  
DATA "mou"  
DATA "moe"  
DATA "moa"  
DATA "mei"  
DATA "mea"  
DATA "mau"  
DATA "mao"  
DATA "mai"  
DATA "kua"  
DATA "koa"  
DATA "kio"  
DATA "kia"  
DATA "keu"  
DATA "keo"  
DATA "kau"  
DATA "kao"  
DATA "kai"  
DATA "ivi"  
DATA "iti"  
DATA "ite"  
DATA "iri"  
DATA "ira"  
DATA "ipu"  
DATA "ina"  
DATA "iku"  
DATA "ika"  
DATA "ihu"  
DATA "iho"  
DATA "ihi"  
DATA "ihe"  
DATA "hue"  
DATA "hua"  
DATA "hou"  
DATA "hoa"  
DATA "hiu"  
DATA "heu"  
DATA "hei"  
DATA "hau"  
DATA "hao"  
DATA "hai"  
DATA "hae"  
DATA "eve"  
DATA "epe"  
DATA "epa"  
DATA "emu"  
DATA "eko"  
DATA "eke"  
DATA "ave"  
DATA "ava"  
DATA "aue"  
DATA "aua"  
DATA "atu"  
DATA "ato"  
DATA "ati"  
DATA "ate"  
DATA "ata"  
DATA "aro"  
DATA "are"  
DATA "ara"  
DATA "apo"  
DATA "api"  
DATA "apa"  
DATA "ana"  
DATA "amo"  
DATA "ama"  
DATA "aku"  
DATA "ako"  
DATA "aka"  
DATA "ahu"  
DATA "ahi"  
DATA "ahe"  
DATA "aha"  
DATA "ui"  
DATA "ua"  
DATA "tu"  
DATA "to"  
DATA "ti"  
DATA "te"  
DATA "ta"  
DATA "ra"  
DATA "pu"  
DATA "po"  
DATA "pe"  
DATA "pa"  
DATA "oi"  
DATA "no"  
DATA "na"  
DATA "mo"  
DATA "ma"  
DATA "ku"  
DATA "ko"  
DATA "ki"  
DATA "ke"  
DATA "ka"  
DATA "ia"  
DATA "hu"

```

DATA "hi"
DATA "he"
DATA "ha"
DATA "eo"
DATA "ei"
DATA "ea"
DATA "au"
DATA "ao"
DATA "ai"
DATA "u"
DATA "o"
DATA "i"
DATA "e"
DATA "a"
s = 742

FOR i = 1 TO s
  READ Si(i)
  Si(i) = "," + Si(i) + ","
NEXT

CLS
OPEN "TEST8.TXT" FOR OUTPUT AS #2 'Ausgabedatei

FOR i = 1 TO s
  OPEN "TEST7.TXT" FOR INPUT AS #1 'Datei "0-Elemente zu Worten.txt"
  OPEN "TEST.TXT" FOR OUTPUT AS #3 'bearbeitete Datei "TEST7.TXT"
  PRINT ""
  PRINT #2, ""
  PRINT "Wort: "; Si(i)
  PRINT #2, "Wort: "; Si(i)
  WHILE NOT EOF(1)
    LINE INPUT #1, z1$
    LINE INPUT #1, z2$
    z2$ = LCASE$(z2$)
    LINE INPUT #1, z3$
    IF INSTR(z2$, Si(i)) THEN
      PRINT z1$
      PRINT #2, z1$
      z4$ = ""
      FOR j = 1 TO LEN(Si(i)) + 3
        z4$ = z4$ + ","
      NEXT
      MID$(z2$, INSTR(z2$, Si(i)), LEN(Si(i))) = z4$
      PRINT #3, z1$
      PRINT #3, z2$
      PRINT #3, z3$
    ELSE
      PRINT #3, z1$
      PRINT #3, z2$
      PRINT #3, z3$
    END IF
  WEND
  CLOSE #1
  CLOSE #3
  SHELL "DEL TEST7.TXT"
  SHELL "COPY TEST.TXT TEST7.TXT"
NEXT
CLOSE #2
END

```

```

'LISTE.BAS
'Hilfsprogramm zur Erstellung computergerechter Listen
'Kapt.Wolf Scheuermann
'18.Okt.2024

CLS

OPEN "TEST.TXT" FOR OUTPUT AS #1

INPUT "Elementanzahl ", m
PRINT "bis"
INPUT "Elementanzahl ", n
z$ = ",ko,ka,o,mai,e,a,ki,i,he," 'Zeile eintragen!
FOR i = m TO n
  PRINT "Elementanzahl", i; "%"
  PRINT z$
  PRINT ""
  PRINT #1, "Elementanzahl", i; "%"
  PRINT #1, z$
  PRINT #1, ""
NEXT
CLOSE #1

END

```

```

'SCHNITT.BAS
'Hilfsprogramm, um Schnittmengen zu bestimmen
'Kapt.Wolf Scheuermann

DIM WORD1(300) AS STRING
DIM WORD2(300) AS STRING
DIM WORD3(300) AS STRING

TRUE = NOT FALSE

CLS

```



```

OPEN "TEST1.TXT" FOR INPUT AS #1      '3-Elemente zu Silben.txt ohne Header
OPEN "TEST2.TXT" FOR INPUT AS #2      '3-Elemente zu Worten.txt ohne Header
OPEN "SCHNITT.TXT" FOR OUTPUT AS #3    'Schnittmenge

'Beide Dateien zusammenführen
WHILE NOT EOF(1) AND NOT EOF(2)
  PRINT " ";
  LINE INPUT #1, z$
  PRINT z$
  LINE INPUT #2, z$
  PRINT #3, z$

  'Zeile in Einzelworte zerlegen
  LINE INPUT #1, z1$
  z1$ = z1$ + ","
  i1 = 0
  WHILE z1$ <> "" AND i1 <= 260
    i1 = i1 + 1
    n = INSTR(z1$, ",")
    WORD1(i1) = LEFT$(z1$, n - 1)
    'PRINT #3, "1 "; WORD1(i1); ", ";
    z1$ = RIGHT$(z1$, LEN(z1$) - n)
  WEND
  'PRINT #3, "-1-"
  'Zeile in Einzelworte zerlegen
  LINE INPUT #2, z2$
  z2$ = z2$ + ","
  i2 = 0
  WHILE z2$ <> "" AND i2 <= 260
    i2 = i2 + 1
    n = INSTR(z2$, ",")
    WORD2(i2) = LEFT$(z2$, n - 1)
    'PRINT #3, "2 "; WORD2(i2); ", ";
    z2$ = RIGHT$(z2$, LEN(z2$) - n)
  WEND
  'PRINT #3, "-2-"

  'gemeinsame Worte hervorheben
  i3 = 0
  FOR k = 1 TO i2
    FOR l = 1 TO i1
      IF WORD1(l) = WORD2(k) THEN
        i3 = i3 + 1
        WORD3(i3) = UCASE$(WORD1(l))
        PRINT UCASE$(WORD1(l)); ", ";
        PRINT #3, UCASE$(WORD1(l)); ", ";
      END IF
    NEXT
  NEXT
  PRINT #3, ""
  PRINT ""

  LINE INPUT #1, z$
  LINE INPUT #2, z$
  PRINT #3, z$
WEND
PRINT
CLOSE #1
CLOSE #2
CLOSE #3

END

```

### 'SILBZORD.BAS

'Programm zum automatischen Zuordnen einzelner Elemente zu Silben  
 'abhängig von der Elementanzahl  
 'Kapt.Wolf Scheuermann  
 '17.Okt.2024,06.Mai.2024,01.Apr.2024

```

DIM Wert(70), Wert1(70), Wert2(70) AS DOUBLE
DIM Silbe(70) AS STRING
DIM Element(100) AS STRING

```

```

CLS
'
'      ALT-RAPANUI
'      Anzahl  Silbe,Partikel
'DATA  45752, "#"
DATA   8378, "a"
DATA   5859, "i"
DATA   5615, "te"
DATA   3832, "ma"
DATA   3561, "ta"
DATA   3420, "ki"
DATA   3242, "u"
DATA   2970, "e"
DATA   2736, "ka"
DATA   2582, "o"
DATA   2540, "he"
DATA   2405, "ko"
DATA   2403, "ra"
DATA   2348, "nga"
DATA   2243, "ha"
DATA   1786, "ho"
DATA   1785, "tu"
DATA   1664, "to"
DATA   1613, "ku"
DATA   1560, "re"
DATA   1476, "na"
DATA   1415, "ri"
DATA   1328, "nu"

```

```

DATA 1322, "ro"
DATA 1185, "hi"
DATA 1132, "va"
DATA 1030, "ru"
DATA 963, "ai"
DATA 885, "mai"
DATA 858, "hu"
DATA 789, "kua"
DATA 788, "mo"
DATA 767, "ke"
DATA 758, "pa"
DATA 708, "ti"
DATA 700, "no"
DATA 666, "pu"
DATA 653, "ana"
DATA 643, "haka"
DATA 483, "ngi"
DATA 461, "ne"
DATA 407, "po"
DATA 361, "pe"
DATA 282, "pi"
DATA 263, "me"
DATA 255, "ngo"
DATA 254, "ve"
DATA 196, "kia"
DATA 182, "nei"
DATA 153, "ina"
DATA 150, "mi"
DATA 144, "ni"
DATA 122, "vi"
DATA 114, "mu"
DATA 105, "aku"
DATA 79, "ngu"
DATA 58, "nge"
DATA 22, "hea"
DATA 15, "kei"
DATA 14, "aia"
DATA 5, "vo"
s = 61

TRUE = NOT FALSE

OPEN "SILBZORD.TXT" FOR OUTPUT AS #1

MZ = 100 'minimal-maximale Elementanzahl

FOR E = 1 TO MZ
PROZ = INT(E / MZ * 100 + .5)
PRINT "Elementanzahl"; PROZ; "%"
PRINT #1, "Elementanzahl"; PROZ; "%"

z = 1
'T = Silbenanzahltoleranz [%]
FOR T = 10 TO 30 STEP 10

RESTORE
FOR i = 1 TO s
READ Wert(i), Silbe(i)
Wert1(i) = Wert(i) / Wert(1) * 100 * (1 - T / 100)
Wert2(i) = Wert(i) / Wert(1) * 100 * (1 + T / 100)
NEXT

'M = Elementzahlmaximum, hier angepaßt an jeweiliges Tablet
FOR M = 1 TO MZ STEP MZ * .81
Erel = E / M * 100
FOR i = 1 TO s
Flag = TRUE
IF Erel >= Wert1(i) AND Erel <= Wert2(i) THEN
FOR j = 1 TO z
IF Silbe(i) = Element(j) THEN Flag = FALSE
NEXT
IF Flag THEN
z = z + 1
Element(z) = Silbe(i)
END IF
END IF
NEXT
NEXT
NEXT

FOR j = 1 TO z
PRINT Element(j); ",";
PRINT #1, Element(j); ",";
NEXT
PRINT ""
PRINT ""
PRINT #1, ""
PRINT #1, ""

NEXT

CLOSE #1
END

```

#### 'WORTZORD.BAS

```

'Programm zum automatischen Zuordnen einzelner Elemente zu Rapanui-Worten
'abhängig von der Elementanzahl
'Kapt.Wolf Scheuermann
'26.Mai.2024,07.April.2024

```

```

DIM Wert(800), Wert1(800), Wert2(800) AS DOUBLE
DIM Wort(800) AS STRING
DIM Element(500) AS STRING

```

```

CLS
'          ALT-RAPANUI
'      Anzahl  Wort
DATA 6705, "te"
DATA 3153, "he"
DATA 2749, "a"
DATA 2583, "ki"
DATA 2573, "i"
DATA 1701, "e"
DATA 1488, "ko"
DATA 1447, "ka"
DATA 1415, "o"
DATA 1136, "mai"
DATA 914, "tu"
DATA 788, "kua"
DATA 778, "ma"
DATA 740, "to"
DATA 705, "oho"
DATA 674, "ra"
DATA 664, "ha"
DATA 663, "tangata"
DATA 643, "haka"
DATA 534, "ta"
DATA 522, "ariki"
DATA 448, "ana"
DATA 438, "hau"
DATA 413, "manu"
DATA 407, "ku"
DATA 337, "ai"
DATA 327, "mo"
DATA 313, "na"
DATA 302, "kia"
DATA 302, "ia"
DATA 287, "teke"
DATA 284, "tau"
DATA 266, "pu"
DATA 265, "xere"
DATA 262, "oti"
DATA 254, "hi"
DATA 244, "u"
DATA 241, "ira"
DATA 237, "no"
DATA 232, "mau"
DATA 226, "pa"
DATA 223, "ui"
DATA 207, "mata"
DATA 204, "vai"
DATA 202, "rua"
DATA 195, "po"
DATA 194, "ika"
DATA 193, "atu"
DATA 188, "ti"
DATA 186, "kai"
DATA 184, "ke"
DATA 177, "nape"
DATA 175, "kolia"
DATA 174, "tea"
DATA 168, "nei"
DATA 168, "hu"
DATA 166, "maro"
DATA 162, "moe"
DATA 161, "rei"
DATA 159, "moa"
DATA 158, "uta"
DATA 156, "roto"
DATA 156, "hiva"
DATA 154, "hua"
DATA 150, "miro"
DATA 146, "ua"
DATA 145, "mea"
DATA 144, "marama"
DATA 142, "ea"
DATA 141, "honu"
DATA 139, "iri"
DATA 131, "huki"
DATA 129, "vae"
DATA 128, "au"
DATA 126, "nui"
DATA 126, "ihe"
DATA 125, "rau"
DATA 124, "papa"
DATA 123, "tahi"
DATA 119, "hoa"
DATA 118, "ara"
DATA 116, "kuhane"
DATA 114, "roa"
DATA 112, "moko"
DATA 112, "hoki"
DATA 108, "maitaki"
DATA 104, "kava"
DATA 103, "atua"
DATA 100, "toki"
DATA 98, "pua"
DATA 94, "tara"
DATA 94, "tai"
DATA 92, "hetu"
DATA 90, "iti"
DATA 88, "uhi"

```

DATA 86, "tou"  
DATA 86, "korua"  
DATA 84, "uri"  
DATA 80, "ure"  
DATA 80, "tupu"  
DATA 80, "hanau"  
DATA 79, "rara"  
DATA 79, "ata"  
DATA 79, "ahi"  
DATA 78, "pure"  
DATA 78, "kura"  
DATA 78, "kau"  
DATA 78, "ahu"  
DATA 77, "huri"  
DATA 75, "hatu"  
DATA 72, "vaha"  
DATA 72, "moai"  
DATA 70, "motu"  
DATA 69, "rapa"  
DATA 69, "pe"  
DATA 66, "hoko"  
DATA 60, "raro"  
DATA 59, "vero"  
DATA 59, "poki"  
DATA 57, "rakau"  
DATA 57, "pito"  
DATA 56, "mana"  
DATA 56, "kahi"  
DATA 55, "tomo"  
DATA 55, "tikea"  
DATA 55, "rapu"  
DATA 54, "uru"  
DATA 53, "toa"  
DATA 53, "ava"  
DATA 52, "tuki"  
DATA 52, "hati"  
DATA 51, "туру"  
DATA 51, "topa"  
DATA 51, "kona"  
DATA 49, "ura"  
DATA 49, "mara"  
DATA 49, "haho"  
DATA 49, "eko"  
DATA 48, "taropa"  
DATA 48, "raua"  
DATA 47, "rava"  
DATA 46, "titiro"  
DATA 46, "pau"  
DATA 46, "kikihihi"  
DATA 44, "takaure"  
DATA 44, "aka"  
DATA 43, "tama"  
DATA 43, "roro"  
DATA 42, "hai"  
DATA 41, "piri"  
DATA 41, "ao"  
DATA 40, "one"  
DATA 40, "kuku"  
DATA 39, "poko"  
DATA 39, "hiti"  
DATA 38, "toru"  
DATA 38, "tere"  
DATA 38, "maui"  
DATA 38, "aku"  
DATA 37, "rou"  
DATA 36, "tuku"  
DATA 36, "tiki"  
DATA 36, "piere"  
DATA 36, "maori"  
DATA 36, "ina"  
DATA 36, "here"  
DATA 36, "epe"  
DATA 35, "vere"  
DATA 35, "taha"  
DATA 35, "pei"  
DATA 35, "niu"  
DATA 35, "heke"  
DATA 35, "haha"  
DATA 34, "tamahahine"  
DATA 34, "taka"  
DATA 34, "rarama"  
DATA 33, "viri"  
DATA 33, "reva"  
DATA 33, "hura"  
DATA 32, "tata"  
DATA 32, "poporo"  
DATA 32, "kumara"  
DATA 32, "kara"  
DATA 32, "hora"  
DATA 32, "heu"  
DATA 32, "hahau"  
DATA 31, "vari"  
DATA 31, "aro"  
DATA 30, "tatou"  
DATA 30, "tamaroa"  
DATA 30, "mama"  
DATA 30, "koro"  
DATA 30, "kiri"  
DATA 30, "kaha"  
DATA 30, "hiri"  
DATA 29, "veri"  
DATA 29, "taura"

DATA 29, "riki"  
DATA 29, "ria"  
DATA 29, "pea"  
DATA 29, "paka"  
DATA 29, "mate"  
DATA 29, "kokore"  
DATA 29, "kino"  
DATA 28, "vave"  
DATA 28, "umu"  
DATA 28, "tini"  
DATA 28, "puoko"  
DATA 28, "puku"  
DATA 28, "kope"  
DATA 27, "tuitui"  
DATA 27, "nua"  
DATA 27, "kete"  
DATA 27, "hihi"  
DATA 26, "tino"  
DATA 26, "ruhi"  
DATA 26, "hou"  
DATA 26, "amo"  
DATA 26, "aha"  
DATA 25, "tutu"  
DATA 25, "taki"  
DATA 25, "taina"  
DATA 25, "puhi"  
DATA 25, "nau"  
DATA 25, "mahu"  
DATA 25, "kone"  
DATA 24, "ketu"  
DATA 24, "hei"  
DATA 23, "toto"  
DATA 23, "pipi"  
DATA 23, "pepe"  
DATA 23, "kore"  
DATA 23, "kauatu"  
DATA 22, "vaero"  
DATA 22, "tupa"  
DATA 22, "tui"  
DATA 22, "teatea"  
DATA 22, "tapu"  
DATA 22, "ririri"  
DATA 22, "pakakina"  
DATA 22, "kena"  
DATA 22, "kahu"  
DATA 22, "hina"  
DATA 21, "toro"  
DATA 21, "rutu"  
DATA 21, "popo"  
DATA 21, "matou"  
DATA 21, "hue"  
DATA 20, "uka"  
DATA 20, "taro"  
DATA 20, "tapa"  
DATA 20, "reipa"  
DATA 20, "rehu"  
DATA 20, "puna"  
DATA 20, "pou"  
DATA 20, "maika"  
DATA 20, "hiku"  
DATA 20, "hauhau"  
DATA 20, "ati"  
DATA 20, "arurua"  
DATA 20, "are"  
DATA 19, "rama"  
DATA 19, "otea"  
DATA 19, "ora"  
DATA 19, "kaukau"  
DATA 19, "ihu"  
DATA 19, "huru"  
DATA 19, "epa"  
DATA 18, "toka"  
DATA 18, "tohu"  
DATA 18, "pare"  
DATA 18, "para"  
DATA 18, "pae"  
DATA 18, "matariki"  
DATA 18, "keri"  
DATA 18, "kehu"  
DATA 18, "ihi"  
DATA 18, "hata"  
DATA 17, "tavake"  
DATA 17, "taua"  
DATA 17, "rano"  
DATA 17, "piki"  
DATA 17, "oka"  
DATA 17, "oi"  
DATA 17, "kori"  
DATA 17, "kikiu"  
DATA 17, "ivi"  
DATA 16, "uha"  
DATA 16, "tia"  
DATA 16, "ruru"  
DATA 16, "ruku"  
DATA 16, "riua"  
DATA 16, "papaku"  
DATA 16, "nonoma"  
DATA 16, "nehunehu"  
DATA 16, "maua"  
DATA 16, "horeko"  
DATA 16, "hana"  
DATA 16, "hakaeke"

DATA 16, "eve"  
DATA 15, "turi"  
DATA 15, "tokerau"  
DATA 15, "toe"  
DATA 15, "titi"  
DATA 15, "tahu"  
DATA 15, "reo"  
DATA 15, "patu"  
DATA 15, "mao"  
DATA 15, "kao"  
DATA 15, "ite"  
DATA 15, "aue"  
DATA 14, "tanu"  
DATA 14, "mou"  
DATA 14, "mahina"  
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DATA 14, "avai"  
DATA 14, "atariki"  
DATA 13, "vahi"  
DATA 13, "tunu"  
DATA 13, "tokorua"  
DATA 13, "take"  
DATA 13, "rori"  
DATA 13, "piko"  
DATA 13, "pari"  
DATA 13, "oro"  
DATA 13, "mare"  
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DATA 13, "kopu"  
DATA 13, "koka"  
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DATA 12, "momoko"  
DATA 12, "mataki"  
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DATA 12, "hiro"  
DATA 12, "hiki"  
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DATA 12, "ananake"  
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DATA 11, "tumu"  
DATA 11, "toromiro"  
DATA 11, "roaroa"  
DATA 11, "rana"  
DATA 11, "raha"  
DATA 11, "ohu"  
DATA 11, "nuahine"  
DATA 11, "kiko"  
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DATA 11, "honui"  
DATA 11, "heheu"  
DATA 11, "ei"  
DATA 11, "apo"  
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DATA 10, "hao"  
DATA 10, "eke"  
DATA 9, "vare"  
DATA 9, "timo"  
DATA 9, "tahe"  
DATA 9, "riu"  
DATA 9, "zahau"  
DATA 9, "puru"  
DATA 9, "potu"  
DATA 9, "mimi"  
DATA 9, "matu"  
DATA 9, "manava"  
DATA 9, "mamari"  
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DATA 9, "ako"  
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DATA 8, "unu"  
DATA 8, "tuhi"  
DATA 8, "runu"  
DATA 8, "zoturotu"

DATA 8, "roe"  
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 DATA 8, "revareva"  
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 DATA 8, "rao"  
 DATA 8, "pupura"  
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 DATA 8, "peke"  
 DATA 8, "paupau"  
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 DATA 8, "morore"  
 DATA 8, "mahore"  
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 DATA 8, "keukeu"  
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 DATA 7, "teki"  
 DATA 7, "tahuti"  
 DATA 7, "rivariva"  
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 DATA 7, "neke"  
 DATA 7, "mauku"  
 DATA 7, "matara"  
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 DATA 7, "koreha"  
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 DATA 7, "kahui"  
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 DATA 7, "hahata"  
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 DATA 7, "anira"  
 DATA 7, "ahe"  
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 DATA 6, "tureme"  
 DATA 6, "tuha"  
 DATA 6, "tetea"  
 DATA 6, "raupa"  
 DATA 6, "raku"  
 DATA 6, "rahi"  
 DATA 6, "pureva"  
 DATA 6, "puke"  
 DATA 6, "poa"  
 DATA 6, "papaki"  
 DATA 6, "pahera"  
 DATA 6, "oira"  
 DATA 6, "nehe"  
 DATA 6, "nave"  
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 DATA 6, "karu"  
 DATA 6, "heka"  
 DATA 6, "harahara"  
 DATA 6, "hakari"  
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 DATA 6, "aua"  
 DATA 6, "ahiahi"  
 DATA 5, "vera"  
 DATA 5, "varu"  
 DATA 5, "upa"  
 DATA 5, "tahua"  
 DATA 5, "tahito"  
 DATA 5, "reka"  
 DATA 5, "rari"  
 DATA 5, "piro"  
 DATA 5, "pakia"  
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 DATA 5, "kume"  
 DATA 5, "kohau"  
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 DATA 5, "amoamo"  
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 DATA 4, "toua"  
 DATA 4, "totoi"  
 DATA 4, "tono"

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DATA 4, "taviri"  
DATA 4, "taueve"  
DATA 4, "taoraha"  
DATA 4, "taomi"  
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DATA 4, "romi"  
DATA 4, "remereme"  
DATA 4, "punua"  
DATA 4, "poto"  
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DATA 4, "pera"  
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DATA 4, "oru"  
DATA 4, "omo"  
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DATA 4, "mei"  
DATA 4, "matie"  
DATA 4, "maruaki"  
DATA 4, "manana"  
DATA 4, "mahia"  
DATA 4, "maemae"  
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DATA 4, "konui"  
DATA 4, "kimi"  
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DATA 4, "kave"  
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DATA 4, "hotake"  
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DATA 4, "arero"  
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DATA 3, "tetere"  
DATA 3, "tautau"  
DATA 3, "tataki"  
DATA 3, "tarupu"  
DATA 3, "takapau"  
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DATA 3, "ohe"  
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DATA 3, "nihi"  
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DATA 3, "mukomuko"  
DATA 3, "moana"  
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DATA 3, "mamae"  
DATA 3, "kokoe"  
DATA 3, "kapua"  
DATA 3, "inaki"  
DATA 3, "huti"  
DATA 3, "hune"  
DATA 3, "heva"  
DATA 3, "aruaru"  
DATA 3, "akau"  
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DATA 2, "vavae"  
DATA 2, "unahi"  
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DATA 2, "tuvi"  
DATA 2, "tuturi"  
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DATA 2, "tututuru"  
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DATA 2, "tukituki"  
DATA 2, "toretore"  
DATA 2, "toremo"  
DATA 2, "tomatou"  
DATA 2, "titeve"  
DATA 2, "tiho"  
DATA 2, "tiaki"  
DATA 2, "teketeke"  
DATA 2, "tauaki"  
DATA 2, "tatu"  
DATA 2, "tataku"  
DATA 2, "tarotaro"  
DATA 2, "takatore"  
DATA 2, "taiko"  
DATA 2, "tahuri"



DATA 2, "rukuruku"  
 DATA 2, "ruau"  
 DATA 2, "rererero"  
 DATA 2, "rehe"  
 DATA 2, "rauhiva"  
 DATA 2, "ranu"  
 DATA 2, "rakei"  
 DATA 2, "putiti"  
 DATA 2, "poepoe"  
 DATA 2, "pene"  
 DATA 2, "pekapeka"  
 DATA 2, "pehiva"  
 DATA 2, "patiri"  
 DATA 2, "paroko"  
 DATA 2, "parei"  
 DATA 2, "omaoma"  
 DATA 2, "ohio"  
 DATA 2, "nanue"  
 DATA 2, "moamoao"  
 DATA 2, "moaha"  
 DATA 2, "maruhi"  
 DATA 2, "marere"  
 DATA 2, "maoa"  
 DATA 2, "maharo"  
 DATA 2, "kuki"  
 DATA 2, "kopeka"  
 DATA 2, "konakona"  
 DATA 2, "komo"  
 DATA 2, "kokohu"  
 DATA 2, "koau"  
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 DATA 2, "kerekere"  
 DATA 2, "kenu"  
 DATA 2, "keho"  
 DATA 2, "kavei"  
 DATA 2, "katu"  
 DATA 2, "karo"  
 DATA 2, "kapeu"  
 DATA 2, "kakara"  
 DATA 2, "iku"  
 DATA 2, "hukahuka"  
 DATA 2, "hove"  
 DATA 2, "hika"  
 DATA 2, "heruru"  
 DATA 2, "heriki"  
 DATA 2, "havahava"  
 DATA 2, "hakurakura"  
 DATA 2, "hakaere"  
 DATA 2, "hahave"  
 DATA 2, "eoeo"  
 DATA 2, "emu"  
 DATA 2, "aveave"  
 DATA 2, "auau"  
 DATA 2, "ature"  
 DATA 2, "aroha"  
 DATA 1, "vuhi"  
 DATA 1, "vivi"  
 DATA 1, "veta"  
 DATA 1, "veriveri"  
 DATA 1, "vekeveke"  
 DATA 1, "varua"  
 DATA 1, "varavara"  
 DATA 1, "vanavana"  
 DATA 1, "ueue"  
 DATA 1, "tupuna"  
 DATA 1, "tuke"  
 DATA 1, "tuai"  
 DATA 1, "totoro"  
 DATA 1, "totohu"  
 DATA 1, "toritori"  
 DATA 1, "tomaua"  
 DATA 1, "teko"  
 DATA 1, "tehi"  
 DATA 1, "tatake"  
 DATA 1, "tari"  
 DATA 1, "tare"  
 DATA 1, "tarai"  
 DATA 1, "tapani"  
 DATA 1, "takataka"  
 DATA 1, "retoreto"  
 DATA 1, "zeru"  
 DATA 1, "repo"  
 DATA 1, "rauoho"  
 DATA 1, "raka"  
 DATA 1, "rahai"  
 DATA 1, "putu"  
 DATA 1, "pupuhi"  
 DATA 1, "punipuni"  
 DATA 1, "puapua"  
 DATA 1, "pouri"  
 DATA 1, "poreko"  
 DATA 1, "pokopoko"  
 DATA 1, "pohutu"  
 DATA 1, "pere"  
 DATA 1, "pato"  
 DATA 1, "parera"  
 DATA 1, "papare"  
 DATA 1, "paina"  
 DATA 1, "oneone"  
 DATA 1, "omotohi"  
 DATA 1, "ohi"  
 DATA 1, "nono"

```

DATA 1, "nire"
DATA 1, "nini"
DATA 1, "matuku"
DATA 1, "matiro"
DATA 1, "matamata"
DATA 1, "marumaru"
DATA 1, "maripau"
DATA 1, "marikuru"
DATA 1, "maniri"
DATA 1, "makemake"
DATA 1, "maikuku"
DATA 1, "mahora"
DATA 1, "mahani"
DATA 1, "kukumu"
DATA 1, "koura"
DATA 1, "koromaki"
DATA 1, "koria"
DATA 1, "kivakiva"
DATA 1, "kero"
DATA 1, "kerereki"
DATA 1, "karava"
DATA 1, "kakari"
DATA 1, "kahara"
DATA 1, "huruhuru"
DATA 1, "hukia"
DATA 1, "horou"
DATA 1, "hauva"
DATA 1, "hakahihi"
DATA 1, "hakaheu"
DATA 1, "ave"
DATA 1, "avahi"
DATA 1, "ararua"
DATA 1, "api"
DATA 1, "apapa"
DATA 1, "ahara"
s = 742

TRUE = NOT FALSE

OPEN "WORTZORD.TXT" FOR OUTPUT AS #1

MZ = 100 'minimal-maximale Elementanzahl

FOR E = 1 TO MZ
  PROZ = INT(E / MZ * 100 + .5)
  PRINT "Elementanzahl"; PROZ; "%"
  PRINT #1, "Elementanzahl"; PROZ; "%"

  z = 1
  'T = Wortanzahltoleranz [%]
  FOR T = 10 TO 30 STEP 10

    RESTORE
    FOR i = 1 TO s
      READ Wort(i), Wert(i)
      Wert1(i) = Wert(i) / Wert(1) * 100 * (1 - T / 100)
      Wert2(i) = Wert(i) / Wert(1) * 100 * (1 + T / 100)
    NEXT

    'M = Elementzahlmaximum, hier angepaßt an jeweiliges Tablet
    FOR M = 1 TO MZ STEP MZ * .76
      Erel = E / M * 100
      FOR i = 1 TO s
        Flag = TRUE
        IF Erel >= Wert1(i) AND Erel <= Wert2(i) THEN
          FOR j = 1 TO z
            IF Wort(i) = Element(j) THEN Flag = FALSE
          NEXT
          IF Flag THEN
            z = z + 1
            Element(z) = Wort(i)
          END IF
        END IF
      NEXT
    NEXT
  NEXT

  FOR j = 1 TO z
    PRINT Element(j); ", ";
    PRINT #1, Element(j); ", ";
  NEXT
  PRINT ""
  PRINT ""
  PRINT #1, ""
  PRINT #1, ""

NEXT

CLOSE #1
END

```

#### 'WORTZORD.BAS

```

'Programm zum automatischen Zuordnen einzelner Elemente zu Rapanui-Worten
'abhängig von der Elementanzahl
'Kapt.Wolf Scheuermann
'26.Mai.2024,07.Mai.2024,07.Apr.2024

```

```

DIM Wert(800), Wert1(800), Wert2(800) AS DOUBLE
DIM Wort(800) AS STRING
DIM Element(500) AS STRING

```

```

CLS
      ALT-RAPANUI
      Anzahl  Wort
'DATA 6705, "te"
DATA 3153, "he"
DATA 2749, "a"
DATA 2583, "ki"
DATA 2573, "i"
DATA 1701, "e"
DATA 1488, "ko"
DATA 1447, "ka"
DATA 1415, "o"
DATA 1136, "mai"
DATA 914, "tu"
DATA 788, "kua"
DATA 778, "ma"
DATA 740, "to"
DATA 705, "oho"
DATA 674, "ra"
DATA 664, "ha"
DATA 663, "tangata"
DATA 643, "haka"
DATA 534, "ta"
DATA 522, "ariki"
DATA 448, "ana"
DATA 438, "hau"
DATA 413, "manu"
DATA 407, "ku"
DATA 337, "ai"
DATA 327, "mo"
DATA 313, "na"
DATA 302, "kia"
DATA 302, "ia"
DATA 287, "teke"
DATA 284, "tau"
DATA 266, "pu"
DATA 265, "xere"
DATA 262, "oti"
DATA 254, "hi"
DATA 244, "u"
DATA 241, "ira"
DATA 237, "no"
DATA 232, "mau"
DATA 226, "pa"
DATA 223, "ui"
DATA 207, "mata"
DATA 204, "vai"
DATA 202, "xua"
DATA 195, "po"
DATA 194, "ika"
DATA 193, "atu"
DATA 188, "ti"
DATA 186, "kai"
DATA 184, "ke"
DATA 177, "nape"
DATA 175, "koia"
DATA 174, "tea"
DATA 168, "nei"
DATA 168, "hu"
DATA 166, "maro"
DATA 162, "moe"
DATA 161, "rei"
DATA 159, "moa"
DATA 158, "uta"
DATA 156, "xoto"
DATA 156, "hiva"
DATA 154, "hua"
DATA 150, "miro"
DATA 146, "ua"
DATA 145, "mea"
DATA 144, "marama"
DATA 142, "ea"
DATA 141, "honu"
DATA 139, "iri"
DATA 131, "huki"
DATA 129, "vae"
DATA 128, "au"
DATA 126, "nui"
DATA 126, "ihe"
DATA 125, "rau"
DATA 124, "papa"
DATA 123, "tahi"
DATA 119, "hoa"
DATA 118, "ara"
DATA 116, "kuhane"
DATA 114, "roa"
DATA 112, "moko"
DATA 112, "hoki"
DATA 108, "maitaki"
DATA 104, "kava"
DATA 103, "atua"
DATA 100, "toki"
DATA 98, "pua"
DATA 94, "tara"
DATA 94, "tai"
DATA 92, "hetu"
DATA 90, "iti"
DATA 88, "uhi"
DATA 86, "tou"
DATA 86, "korua"
DATA 84, "uri"

```

DATA 80, "ure"  
DATA 80, "tupu"  
DATA 80, "hanau"  
DATA 79, "rara"  
DATA 79, "ata"  
DATA 79, "ahi"  
DATA 78, "pure"  
DATA 78, "kura"  
DATA 78, "kau"  
DATA 78, "ahu"  
DATA 77, "huri"  
DATA 75, "hatu"  
DATA 72, "vaha"  
DATA 72, "moai"  
DATA 70, "motu"  
DATA 69, "rapa"  
DATA 69, "pe"  
DATA 66, "hoko"  
DATA 60, "raro"  
DATA 59, "vero"  
DATA 59, "poki"  
DATA 57, "rakau"  
DATA 57, "pito"  
DATA 56, "mana"  
DATA 56, "kahi"  
DATA 55, "tomo"  
DATA 55, "tikea"  
DATA 55, "rapu"  
DATA 54, "uru"  
DATA 53, "toa"  
DATA 53, "ava"  
DATA 52, "tuki"  
DATA 52, "hati"  
DATA 51, "turu"  
DATA 51, "topa"  
DATA 51, "kona"  
DATA 49, "ura"  
DATA 49, "mara"  
DATA 49, "haho"  
DATA 49, "eko"  
DATA 48, "taropa"  
DATA 48, "raua"  
DATA 47, "rava"  
DATA 46, "titiro"  
DATA 46, "pau"  
DATA 46, "kiihikihi"  
DATA 44, "takaure"  
DATA 44, "aka"  
DATA 43, "tama"  
DATA 43, "roro"  
DATA 42, "hai"  
DATA 41, "piri"  
DATA 41, "ao"  
DATA 40, "one"  
DATA 40, "kuku"  
DATA 39, "poko"  
DATA 39, "hiti"  
DATA 38, "toru"  
DATA 38, "tere"  
DATA 38, "maui"  
DATA 38, "aku"  
DATA 37, "rou"  
DATA 36, "tuku"  
DATA 36, "tiki"  
DATA 36, "pierre"  
DATA 36, "maori"  
DATA 36, "ina"  
DATA 36, "here"  
DATA 36, "epe"  
DATA 35, "vere"  
DATA 35, "taha"  
DATA 35, "pei"  
DATA 35, "niu"  
DATA 35, "heke"  
DATA 35, "haha"  
DATA 34, "tamahahine"  
DATA 34, "taka"  
DATA 34, "rarama"  
DATA 33, "viri"  
DATA 33, "reva"  
DATA 33, "hura"  
DATA 32, "tata"  
DATA 32, "poporo"  
DATA 32, "kumara"  
DATA 32, "kara"  
DATA 32, "hora"  
DATA 32, "heu"  
DATA 32, "hahau"  
DATA 31, "vari"  
DATA 31, "aro"  
DATA 30, "tatou"  
DATA 30, "tamaroa"  
DATA 30, "mama"  
DATA 30, "koro"  
DATA 30, "kiri"  
DATA 30, "kaha"  
DATA 30, "hiri"  
DATA 29, "veri"  
DATA 29, "taura"  
DATA 29, "riki"  
DATA 29, "ria"  
DATA 29, "pea"

DATA 29, "paka"  
 DATA 29, "mate"  
 DATA 29, "kokore"  
 DATA 29, "kino"  
 DATA 28, "vave"  
 DATA 28, "umu"  
 DATA 28, "tini"  
 DATA 28, "puoko"  
 DATA 28, "puku"  
 DATA 28, "kope"  
 DATA 27, "tuitui"  
 DATA 27, "nua"  
 DATA 27, "kete"  
 DATA 27, "hihi"  
 DATA 26, "tino"  
 DATA 26, "ruhi"  
 DATA 26, "hou"  
 DATA 26, "amo"  
 DATA 26, "aha"  
 DATA 25, "tutu"  
 DATA 25, "taki"  
 DATA 25, "taina"  
 DATA 25, "puhi"  
 DATA 25, "nau"  
 DATA 25, "mahu"  
 DATA 25, "kohe"  
 DATA 24, "ketu"  
 DATA 24, "hei"  
 DATA 23, "toto"  
 DATA 23, "pipi"  
 DATA 23, "pepe"  
 DATA 23, "kore"  
 DATA 23, "kauatu"  
 DATA 22, "vaero"  
 DATA 22, "tupa"  
 DATA 22, "tui"  
 DATA 22, "teatea"  
 DATA 22, "tapu"  
 DATA 22, "riri"  
 DATA 22, "pakakina"  
 DATA 22, "kena"  
 DATA 22, "kahu"  
 DATA 22, "hina"  
 DATA 21, "toro"  
 DATA 21, "rutu"  
 DATA 21, "popo"  
 DATA 21, "matou"  
 DATA 21, "hue"  
 DATA 20, "uka"  
 DATA 20, "taro"  
 DATA 20, "tapa"  
 DATA 20, "reipa"  
 DATA 20, "rehu"  
 DATA 20, "puna"  
 DATA 20, "pou"  
 DATA 20, "maika"  
 DATA 20, "hiku"  
 DATA 20, "hauhau"  
 DATA 20, "ati"  
 DATA 20, "arurua"  
 DATA 20, "are"  
 DATA 19, "rama"  
 DATA 19, "otea"  
 DATA 19, "ora"  
 DATA 19, "kaukau"  
 DATA 19, "ihu"  
 DATA 19, "huru"  
 DATA 19, "epa"  
 DATA 18, "toka"  
 DATA 18, "tohu"  
 DATA 18, "pare"  
 DATA 18, "para"  
 DATA 18, "pae"  
 DATA 18, "matariki"  
 DATA 18, "keri"  
 DATA 18, "kehu"  
 DATA 18, "ihi"  
 DATA 18, "hata"  
 DATA 17, "tavake"  
 DATA 17, "taua"  
 DATA 17, "rano"  
 DATA 17, "piki"  
 DATA 17, "oka"  
 DATA 17, "oi"  
 DATA 17, "kori"  
 DATA 17, "kikiu"  
 DATA 17, "ivi"  
 DATA 16, "uha"  
 DATA 16, "tia"  
 DATA 16, "ruru"  
 DATA 16, "ruku"  
 DATA 16, "riva"  
 DATA 16, "papaku"  
 DATA 16, "nonoma"  
 DATA 16, "nehunehu"  
 DATA 16, "maua"  
 DATA 16, "horeko"  
 DATA 16, "hana"  
 DATA 16, "hakaeke"  
 DATA 16, "eve"  
 DATA 15, "turi"  
 DATA 15, "tokerau"

DATA 15, "toe"  
DATA 15, "titi"  
DATA 15, "tahu"  
DATA 15, "reo"  
DATA 15, "patu"  
DATA 15, "mao"  
DATA 15, "kao"  
DATA 15, "ite"  
DATA 15, "aue"  
DATA 14, "tanu"  
DATA 14, "mou"  
DATA 14, "mahina"  
DATA 14, "kapuapua"  
DATA 14, "avai"  
DATA 14, "atariki"  
DATA 13, "vahi"  
DATA 13, "tunu"  
DATA 13, "tokorua"  
DATA 13, "take"  
DATA 13, "rori"  
DATA 13, "piko"  
DATA 13, "pari"  
DATA 13, "oro"  
DATA 13, "mare"  
DATA 13, "manavai"  
DATA 13, "kopu"  
DATA 13, "koka"  
DATA 13, "koa"  
DATA 13, "ipu"  
DATA 13, "hopu"  
DATA 13, "hauru"  
DATA 13, "hapai"  
DATA 13, "ate"  
DATA 12, "vana"  
DATA 12, "riku"  
DATA 12, "rikiriki"  
DATA 12, "rakerake"  
DATA 12, "pouo"  
DATA 12, "naunau"  
DATA 12, "momoko"  
DATA 12, "mataki"  
DATA 12, "kekepu"  
DATA 12, "horo"  
DATA 12, "hiro"  
DATA 12, "hiki"  
DATA 12, "ato"  
DATA 12, "ananake"  
DATA 11, "tute"  
DATA 11, "tumu"  
DATA 11, "toromiro"  
DATA 11, "roaroa"  
DATA 11, "rana"  
DATA 11, "raha"  
DATA 11, "ohu"  
DATA 11, "nuahine"  
DATA 11, "kiko"  
DATA 11, "kaikai"  
DATA 11, "iho"  
DATA 11, "hupe"  
DATA 11, "humu"  
DATA 11, "honui"  
DATA 11, "heheu"  
DATA 11, "ei"  
DATA 11, "apo"  
DATA 11, "apa"  
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DATA 10, "roroa"  
DATA 10, "rona"  
DATA 10, "pura"  
DATA 10, "pia"  
DATA 10, "oko"  
DATA 10, "maroa"  
DATA 10, "makere"  
DATA 10, "mahute"  
DATA 10, "kovare"  
DATA 10, "kokoma"  
DATA 10, "katiki"  
DATA 10, "kakai"  
DATA 10, "hao"  
DATA 10, "eke"  
DATA 9, "vare"  
DATA 9, "timo"  
DATA 9, "tahe"  
DATA 9, "riu"  
DATA 9, "zahau"  
DATA 9, "puru"  
DATA 9, "potu"  
DATA 9, "mimi"  
DATA 9, "matu"  
DATA 9, "manava"  
DATA 9, "mamari"  
DATA 9, "hiko"  
DATA 9, "ako"  
DATA 8, "uriuri"  
DATA 8, "unu"  
DATA 8, "tuhi"  
DATA 8, "runu"  
DATA 8, "roturotu"  
DATA 8, "roe"  
DATA 8, "ritorito"  
DATA 8, "revareva"

DATA 8, "repa"  
DATA 8, "rao"  
DATA 8, "pupura"  
DATA 8, "puaka"  
DATA 8, "peke"  
DATA 8, "paupau"  
DATA 8, "opata"  
DATA 8, "nehenehe"  
DATA 8, "morore"  
DATA 8, "mahore"  
DATA 8, "koviro"  
DATA 8, "keukeu"  
DATA 8, "haro"  
DATA 8, "hakaheuru"  
DATA 8, "hahine"  
DATA 8, "hahaki"  
DATA 7, "uaua"  
DATA 7, "tokotoko"  
DATA 7, "teki"  
DATA 7, "tahuti"  
DATA 7, "rivariva"  
DATA 7, "raraku"  
DATA 7, "rake"  
DATA 7, "nene"  
DATA 7, "neke"  
DATA 7, "mauku"  
DATA 7, "matara"  
DATA 7, "maki"  
DATA 7, "mahana"  
DATA 7, "koreha"  
DATA 7, "koiro"  
DATA 7, "kio"  
DATA 7, "kere"  
DATA 7, "keo"  
DATA 7, "kakau"  
DATA 7, "kahui"  
DATA 7, "heru"  
DATA 7, "haua"  
DATA 7, "hami"  
DATA 7, "hahati"  
DATA 7, "hahata"  
DATA 7, "hae"  
DATA 7, "anira"  
DATA 7, "ahe"  
DATA 6, "veveke"  
DATA 6, "tureme"  
DATA 6, "tuha"  
DATA 6, "tetea"  
DATA 6, "raupa"  
DATA 6, "raku"  
DATA 6, "rahi"  
DATA 6, "pureva"  
DATA 6, "puke"  
DATA 6, "poa"  
DATA 6, "papaki"  
DATA 6, "pahera"  
DATA 6, "oira"  
DATA 6, "nehe"  
DATA 6, "nave"  
DATA 6, "nako"  
DATA 6, "muko"  
DATA 6, "makohē"  
DATA 6, "kato"  
DATA 6, "karu"  
DATA 6, "heka"  
DATA 6, "harahara"  
DATA 6, "hakari"  
DATA 6, "eo"  
DATA 6, "aua"  
DATA 6, "ahiahi"  
DATA 5, "vera"  
DATA 5, "varu"  
DATA 5, "upa"  
DATA 5, "tahua"  
DATA 5, "tahito"  
DATA 5, "reka"  
DATA 5, "rari"  
DATA 5, "piro"  
DATA 5, "pakia"  
DATA 5, "niho"  
DATA 5, "more"  
DATA 5, "kupu"  
DATA 5, "kume"  
DATA 5, "kohau"  
DATA 5, "kiva"  
DATA 5, "keke"  
DATA 5, "kauha"  
DATA 5, "huka"  
DATA 5, "hiu"  
DATA 5, "hakaehu"  
DATA 5, "hahi"  
DATA 5, "hahei"  
DATA 5, "haere"  
DATA 5, "amoamo"  
DATA 5, "akuaku"  
DATA 4, "tutuma"  
DATA 4, "toua"  
DATA 4, "totoi"  
DATA 4, "tono"  
DATA 4, "tika"  
DATA 4, "tetu"  
DATA 4, "taviri"

DATA 4, "taueve"  
 DATA 4, "taoraha"  
 DATA 4, "taomi"  
 DATA 4, "taheta"  
 DATA 4, "romi"  
 DATA 4, "remereme"  
 DATA 4, "punua"  
 DATA 4, "poto"  
 DATA 4, "pikēa"  
 DATA 4, "pera"  
 DATA 4, "paku"  
 DATA 4, "pakipaki"  
 DATA 4, "oru"  
 DATA 4, "omo"  
 DATA 4, "miritonu"  
 DATA 4, "mei"  
 DATA 4, "matie"  
 DATA 4, "maruaki"  
 DATA 4, "manana"  
 DATA 4, "mahia"  
 DATA 4, "maemae"  
 DATA 4, "kumi"  
 DATA 4, "konui"  
 DATA 4, "kimi"  
 DATA 4, "kiki"  
 DATA 4, "kiakia"  
 DATA 4, "keu"  
 DATA 4, "kave"  
 DATA 4, "kariti"  
 DATA 4, "kane"  
 DATA 4, "kakaro"  
 DATA 4, "kahukahu"  
 DATA 4, "huhu"  
 DATA 4, "huehue"  
 DATA 4, "hotake"  
 DATA 4, "hohora"  
 DATA 4, "arero"  
 DATA 4, "ama"  
 DATA 3, "verovero"  
 DATA 3, "uto"  
 DATA 3, "uma"  
 DATA 3, "tuna"  
 DATA 3, "teterē"  
 DATA 3, "tautau"  
 DATA 3, "tataki"  
 DATA 3, "tarupu"  
 DATA 3, "takapau"  
 DATA 3, "rotu"  
 DATA 3, "reke"  
 DATA 3, "pukupuku"  
 DATA 3, "poroporo"  
 DATA 3, "poro"  
 DATA 3, "pohi"  
 DATA 3, "piripiri"  
 DATA 3, "pava"  
 DATA 3, "ohe"  
 DATA 3, "nohu"  
 DATA 3, "nihi"  
 DATA 3, "muraki"  
 DATA 3, "mumu"  
 DATA 3, "mukomuko"  
 DATA 3, "moana"  
 DATA 3, "matakū"  
 DATA 3, "matakao"  
 DATA 3, "maramara"  
 DATA 3, "mamae"  
 DATA 3, "kokoe"  
 DATA 3, "kapua"  
 DATA 3, "inaki"  
 DATA 3, "huti"  
 DATA 3, "hune"  
 DATA 3, "heva"  
 DATA 3, "aruaru"  
 DATA 3, "akau"  
 DATA 2, "veveve"  
 DATA 2, "vevete"  
 DATA 2, "vavae"  
 DATA 2, "unahi"  
 DATA 2, "uira"  
 DATA 2, "tuvi"  
 DATA 2, "tuturi"  
 DATA 2, "tutuhi"  
 DATA 2, "turuturu"  
 DATA 2, "tupuaki"  
 DATA 2, "tukituki"  
 DATA 2, "toetore"  
 DATA 2, "toremo"  
 DATA 2, "tomatou"  
 DATA 2, "titeve"  
 DATA 2, "tiho"  
 DATA 2, "tiaki"  
 DATA 2, "teketēke"  
 DATA 2, "tauaki"  
 DATA 2, "tatu"  
 DATA 2, "tataku"  
 DATA 2, "tarotaro"  
 DATA 2, "takatore"  
 DATA 2, "taiko"  
 DATA 2, "tahuri"  
 DATA 2, "rukuruku"  
 DATA 2, "ruau"  
 DATA 2, "zererero"



DATA 2, "rehe"  
 DATA 2, "rauhiva"  
 DATA 2, "ranu"  
 DATA 2, "rakei"  
 DATA 2, "putiti"  
 DATA 2, "poepoe"  
 DATA 2, "pene"  
 DATA 2, "pekapeka"  
 DATA 2, "pehiva"  
 DATA 2, "patiri"  
 DATA 2, "paroko"  
 DATA 2, "parei"  
 DATA 2, "omaoma"  
 DATA 2, "ohio"  
 DATA 2, "nanue"  
 DATA 2, "moamoa"  
 DATA 2, "moaha"  
 DATA 2, "maruhi"  
 DATA 2, "marere"  
 DATA 2, "maoa"  
 DATA 2, "maharo"  
 DATA 2, "kuki"  
 DATA 2, "kopeka"  
 DATA 2, "konakona"  
 DATA 2, "komo"  
 DATA 2, "kokohu"  
 DATA 2, "koau"  
 DATA 2, "kinokino"  
 DATA 2, "kerekere"  
 DATA 2, "kenu"  
 DATA 2, "keho"  
 DATA 2, "kavei"  
 DATA 2, "katu"  
 DATA 2, "karo"  
 DATA 2, "kapeu"  
 DATA 2, "kakara"  
 DATA 2, "iku"  
 DATA 2, "hukahuka"  
 DATA 2, "hove"  
 DATA 2, "hika"  
 DATA 2, "heruru"  
 DATA 2, "heriki"  
 DATA 2, "havahava"  
 DATA 2, "hakurakura"  
 DATA 2, "hakaere"  
 DATA 2, "hahave"  
 DATA 2, "eoeo"  
 DATA 2, "emu"  
 DATA 2, "aveave"  
 DATA 2, "auau"  
 DATA 2, "ature"  
 DATA 2, "aroha"  
 DATA 1, "vuhi"  
 DATA 1, "vivi"  
 DATA 1, "veta"  
 DATA 1, "veriveri"  
 DATA 1, "vekeveke"  
 DATA 1, "varua"  
 DATA 1, "varavara"  
 DATA 1, "vanavana"  
 DATA 1, "ueue"  
 DATA 1, "tupuna"  
 DATA 1, "tuke"  
 DATA 1, "tuai"  
 DATA 1, "totoro"  
 DATA 1, "totohu"  
 DATA 1, "toritori"  
 DATA 1, "tomaua"  
 DATA 1, "teko"  
 DATA 1, "tehi"  
 DATA 1, "tatake"  
 DATA 1, "tari"  
 DATA 1, "tare"  
 DATA 1, "tarai"  
 DATA 1, "tapani"  
 DATA 1, "takataka"  
 DATA 1, "retoreto"  
 DATA 1, "zeru"  
 DATA 1, "repo"  
 DATA 1, "rauoho"  
 DATA 1, "raka"  
 DATA 1, "rahai"  
 DATA 1, "putu"  
 DATA 1, "pupuhi"  
 DATA 1, "punipuni"  
 DATA 1, "puapua"  
 DATA 1, "pouri"  
 DATA 1, "poreko"  
 DATA 1, "pokopoko"  
 DATA 1, "pohutu"  
 DATA 1, "pere"  
 DATA 1, "pato"  
 DATA 1, "parera"  
 DATA 1, "papare"  
 DATA 1, "paina"  
 DATA 1, "oneone"  
 DATA 1, "omotohi"  
 DATA 1, "ohi"  
 DATA 1, "nono"  
 DATA 1, "nire"  
 DATA 1, "nini"  
 DATA 1, "matuku"

```

DATA 1, "matiro"
DATA 1, "matamata"
DATA 1, "marumaru"
DATA 1, "maripau"
DATA 1, "marikuru"
DATA 1, "maniri"
DATA 1, "makemake"
DATA 1, "maikuku"
DATA 1, "mahora"
DATA 1, "mahani"
DATA 1, "kukumu"
DATA 1, "koura"
DATA 1, "koromaki"
DATA 1, "koria"
DATA 1, "kivakiva"
DATA 1, "kero"
DATA 1, "kerereki"
DATA 1, "karava"
DATA 1, "kakari"
DATA 1, "kahara"
DATA 1, "huruhuru"
DATA 1, "hukia"
DATA 1, "horou"
DATA 1, "hauva"
DATA 1, "hakahihi"
DATA 1, "hakaheu"
DATA 1, "ave"
DATA 1, "avahi"
DATA 1, "ararua"
DATA 1, "api"
DATA 1, "apapa"
DATA 1, "ahara"
s = 741

TRUE = NOT FALSE

OPEN "WORTZQRD.TXT" FOR OUTPUT AS #1

MZ = 100      'minimal-maximale Elementanzahl

FOR E = 1 TO MZ
  PROZ = INT(E / MZ * 100 + .5)
  PRINT "Elementanzahl"; PROZ; "%"
  PRINT #1, "Elementanzahl"; PROZ; "%"

  z = 1
  'T = Wortanzahltoleranz [%]
  FOR T = 10 TO 30 STEP 10

    RESTORE
    FOR i = 1 TO s
      READ Wert(i), Wort(i)
      Wert1(i) = Wert(i) / Wert(1) * 100 * (1 - T / 100)
      Wert2(i) = Wert(i) / Wert(1) * 100 * (1 + T / 100)
    NEXT

    'M = Elementzahlmaximum, hier angepaßt an jeweiliges Tablett
    FOR M = 1 TO MZ STEP MZ * .76
      Erel = E / M * 100
      FOR i = 1 TO s
        Flag = TRUE
        IF Erel >= Wert1(i) AND Erel <= Wert2(i) THEN
          FOR j = 1 TO z
            IF Wort(i) = Element(j) THEN Flag = FALSE
          NEXT
          IF Flag THEN
            z = z + 1
            Element(z) = Wort(i)
          END IF
        END IF
      NEXT
    NEXT
  NEXT

  FOR j = 1 TO z
    PRINT Element(j); ", ";
    PRINT #1, Element(j); ", ";
  NEXT
  PRINT ""
  PRINT ""
  PRINT #1, ""
  PRINT #1, ""

NEXT

CLOSE #1
END

```

#### 'ZUSAMMNI.BAS

```

'Hilfsprogramm, um zwei Wortlesungen zusammenzufuehren
'Kapt.Wolf Scheuermann

DIM WORD1(400) AS STRING
DIM WORD2(400) AS STRING
DIM WORD3(400) AS STRING

TRUE = NOT FALSE

CLS
OPEN "TEST1.TXT" FOR INPUT AS #1      'Elementanzahl n+1

```

```

OPEN "TEST2.TXT" FOR INPUT AS #2      'Elementanzahl n
OPEN "ZUSAMMN.TXT" FOR OUTPUT AS #3

'Beide Dateien zusammenfuehren
WHILE NOT EOF(1) AND NOT EOF(2)
  PRINT ".";
  LINE INPUT #1, z$
  LINE INPUT #2, z$
  PRINT #3, z$
  PRINT z$

  'Zeile in Einzelworte zerlegen
  LINE INPUT #1, z1$
  z1$ = RIGHT$(z1$, LEN(z1$) - 1)
  i1 = 0
  WHILE z1$ <> "" 'AND i1 <= 260
    i1 = i1 + 1
    n = INSTR(z1$, ",")
    WORD1(i1) = LEFT$(z1$, n - 1)
    'PRINT #3, "1 "; WORD1(i1); ", ";
    PRINT "1 "; WORD1(i1); ", ";
    z1$ = RIGHT$(z1$, LEN(z1$) - n)
  WEND

  'Zeile in Einzelworte zerlegen
  LINE INPUT #2, z2$
  z2$ = RIGHT$(z2$, LEN(z2$) - 1)
  i2 = 0
  WHILE z2$ <> "" 'AND i2 <= 260
    i2 = i2 + 1
    n = INSTR(z2$, ",")
    WORD2(i2) = LEFT$(z2$, n - 1)
    'PRINT #3, "2 "; WORD2(i2); ", ";
    PRINT "2 "; WORD2(i2); ", ";
    z2$ = RIGHT$(z2$, LEN(z2$) - n)
  WEND

  'gemeinsame Worte hervorheben
  i3 = 0
  FOR k = 1 TO i2
    FOR l = 1 TO i1
      IF WORD1(l) = WORD2(k) THEN
        i3 = i3 + 1
        WORD3(i3) = UCASE$(WORD1(l))
        PRINT #3, UCASE$(WORD1(l)); ", ";
      END IF
    NEXT
  NEXT

  'restliche Worte ergaenzen
  FOR k = 1 TO i2
    Flag = FALSE
    FOR m = 1 TO i3
      IF WORD2(k) = WORD3(m) THEN
        Flag = TRUE
        EXIT FOR
      END IF
    NEXT
    IF NOT Flag THEN
      PRINT #3, WORD2(k); ", ";
      i3 = i3 + 1
      WORD3(i3) = WORD2(k)
    END IF
  NEXT

  'restliche Worte ergaenzen
  FOR l = 1 TO i1
    Flag = FALSE
    FOR m = 1 TO i3
      IF WORD1(l) = WORD3(m) THEN
        Flag = TRUE
        EXIT FOR
      END IF
    NEXT
    IF NOT Flag THEN
      PRINT #3, WORD1(l); ", ";
      i3 = i3 + 1
      WORD3(i3) = WORD1(l)
    END IF
  NEXT
  PRINT #3, ""

  PRINT ""

WEND
PRINT
CLOSE #1
CLOSE #2
CLOSE #3

END

```

## Notizen