Quivira 4.1

Combining Characters

This document shows some examples of combining characters which are actually in use. For reasons of file size and rendering performance, Quivira attempts to only contain senseful instructions, i.e. combinations not shown here are very unlikely to work well.

Characters written in red are new or newly instructed in Quivira 4.1.

Latin / Greek / Cyrillic / IPA

Instructed base letters

Currently the following base letters have instructions:

Latin / IPA:

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
U+0041	U+0042	U+0043	U+0044	U+0045	U+0046	U+0047	U+0048	U+0049	U+004A	U+004B	U+004C	U+004D	U+004E	U+004F	U+0050	U+0051	U+0052	U+0053	U+0054	U+0055	U+0056	U+0057
X	Y	Z	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t
U+0058	U+0059	U+005A	U+0061	U+0062	U+0063	U+0064	U+0065	U+0066	U+0067	U+0068	U+0069	U+006A	U+006B	U+006C	U+006D	U+006E	U+006F	U+0070	U+0071	U+0072	U+0073	U+0074
u	v	w	x	y	z	Æ	Ø	æ	ð	ø	ħ	ı	Ŋ	ŋ	Œ	œ	ſ	Ƃ	Ɔ	Ɛ	Ǝ	Ɛ
U+0075	U+0076	U+0077	U+0078	U+0079	U+007A	U+00C6	U+00D8	U+00E6	U+00F0	U+00F8	U+0127	U+0131	U+014A	U+014B	U+0152	U+0153	U+017F	U+0182	U+0186	U+018E	U+018F	U+0190
ɩ	Ɵ	Ơ	ơ	Ʃ	Ʊ	ư	Ʊ	Ʒ	I	ǁ	ǂ	!	ə	ɟ	Λ	ɐ	ɑ	ɒ	ɓ	ɔ	ɕ	ɗ
U+0196	U+019F	U+01A0	U+01A1	U+01A9	U+01AF	U+01B0	U+01B1	U+01B7	U+01C0	U+01C1	U+01C2	U+01C3	U+01DD	U+0237	U+0245	U+0250	U+0251	U+0252	U+0253	U+0254	U+0255	U+0256
ɗ	ə	ɘ	ɚ	ɛ	ɜ	ɝ	ɞ	ɟ	ɠ	ɡ	ɢ	ɣ	ɤ	ɥ	ɦ	ɧ	ɨ	ɩ	ɪ	ɫ	ɬ	ɭ
U+0257	U+0258	U+0259	U+025A	U+025B	U+025C	U+025D	U+025E	U+025F	U+0260	U+0261	U+0262	U+0263	U+0264	U+0265	U+0266	U+0267	U+0268	U+0269	U+026A	U+026B	U+026C	U+026D
ɮ	ɯ	ɰ	ɱ	ɲ	ɳ	ɴ	ɵ	ɶ	ɷ	ɸ	ɹ	ɺ	ɻ	ɼ	ɽ	ɾ	ɿ	ʀ	ʁ	ʂ	ʃ	ʄ
U+026E	U+026F	U+0270	U+0271	U+0272	U+0273	U+0274	U+0275	U+0276	U+0277	U+0278	U+0279	U+027A	U+027B	U+027C	U+027D	U+027E	U+027F	U+0280	U+0281	U+0282	U+0283	U+0284
ʅ	ʆ	ʈ	ʉ	ʊ	ʋ	ʌ	ʍ	ʎ	ʏ	ʐ	ʑ	ʒ	ʓ	ʔ	ʕ	ʖ	ʗ	ʘ	ʙ	ʚ	ʛ	ʜ
U+0285	U+0286	U+0288	U+0289	U+028A	U+028B	U+028C	U+028D	U+028E	U+028F	U+0290	U+0291	U+0292	U+0293	U+0294	U+0295	U+0296	U+0297	U+0298	U+0299	U+029A	U+029B	U+029C
ʝ	ʞ	ʟ	ʠ	ʡ	ʢ	ʬ	ʭ	ʮ	ʯ	ᵥ	s	Ɜ										
U+029D	U+029E	U+029F	U+02A0	U+02A1	U+02A2	U+02AC	U+02AD	U+02AF	U+2C71	U+A731	U+A76A										

Greek:

Ϳ	Α	Β	Γ	Δ	Ε	Ζ	Η	Θ	Ι	Κ	Λ	Μ	Ν	Ξ	Ο	Π	Ρ	Σ	Τ	Υ	Φ	Χ
U+037F	U+0391	U+0392	U+0393	U+0394	U+0395	U+0396	U+0397	U+0398	U+0399	U+039A	U+039B	U+039C	U+039D	U+039E	U+039F	U+03A0	U+03A1	U+03A3	U+03A4	U+03A5	U+03A6	U+03A7
Ψ	Ω	α	β	γ	δ	ε	ζ	η	θ	ι	κ	λ	μ	ν	ξ	ο	π	ρ	ς	σ	τ	υ
U+03A8	U+03A9	U+03B1	U+03B2	U+03B3	U+03B4	U+03B5	U+03B6	U+03B7	U+03B8	U+03B9	U+03BA	U+03BB	U+03BC	U+03BD	U+03BE	U+03BF	U+03C0	U+03C1	U+03C2	U+03C3	U+03C4	U+03C5
φ	χ	ψ	ω	ϐ	ϑ	ϒ	ϕ	ϖ	ϰ	ϱ	ϲ	ϳ	ϴ	ϵ	϶	Ϲ						
U+03C6	U+03C7	U+03C8	U+03C9	U+03D0	U+03D1	U+03D2	U+03D5	U+03D6	U+03F0	U+03F1	U+03F2	U+03F3	U+03F4	U+03F5	U+03F6	U+03F9						

Cyrillic:

|																			
Є	Ѕ	І	Ј	А	Б	В	Г	Д	Е	Ж	З	И	К	Л	М	Н	О	П	Р	С	Т	У
U+0404	U+0405	U+0406	U+0408	U+0410	U+0411	U+0412	U+0413	U+0414	U+0415	U+0416	U+0417	U+0418	U+041A	U+041B	U+041C	U+041D	U+041E	U+041F	U+0420	U+0421	U+0422	U+0423
Ф	Х	Ц	Ч	Ш	Щ	Ъ	Ы	Ь	Э	Ю	Я	а	б	в	г	д	е	ж	з	и	к	л
U+0424	U+0425	U+0426	U+0427	U+0428	U+0429	U+042A	U+042B	U+042C	U+042D	U+042E	U+042F	U+0430	U+0431	U+0432	U+0433	U+0434	U+0435	U+0436	U+0437	U+0438	U+043A	U+043B
м	н	о	п	р	с	т	у	ф	х	ц	ч	ш	щ	ъ	ы	ь	э	ю	я	є	ѕ	і
U+043C	U+043D	U+043E	U+043F	U+0440	U+0441	U+0442	U+0443	U+0444	U+0445	U+0446	U+0447	U+0448	U+0449	U+044A	U+044B	U+044C	U+044D	U+044E	U+044F	U+0454	U+0455	U+0456
ј	Ѡ	ѡ	Ѣ	ѣ	Ꙕ	ꙕ	Ꙗ	ꙗ	Ѧ	ѧ	Ѩ	ѩ	Ѵ	ѵ	Оу	оу	Ꙩ	ꙩ	Ꙇ	Ꙉ		
U+0458	U+0460	U+0461	U+0462	U+0463	U+0464	U+0465	U+0466	U+0467	U+0468	U+0469	U+046A	U+046B	U+046C	U+046D	U+0474	U+0475	U+0478	U+0479	U+047A	U+047B	U+04C1	U+04D4
æ	Ә	ә	Ꙅ	ꙅ	Ѳ	ѳ	Ꙉ	ꙉ	Ꙡ	ꙡ	Ꙃ	ꙃ	Ꙙ	ꙙ	Ꙝ	ꙝ	Ꙓ	ꙓ	Ꙕ	ꙗ		
U+04D5	U+04D8	U+04D9	U+04E0	U+04E1	U+04E8	U+04E9	U+051A	U+051B	U+051C	U+051D	U+A646	U+A647	U+A64A	U+A64B	U+A64C	U+A64D	U+A650	U+A651	U+A652	U+A653	U+A656	U+A657
ꚕ																						
U+A695																						

All Latin, Greek or Cyrillic letters not mentioned above are not instructed because they are either pre-composed (i.e. they consist of a base letter and one or more more marks), or they are not known to be used with marks in any language. To add more marks to a pre-composed letter, please use the instructed base letter and add all marks as combining marks. More base letters may be added in future versions of Quivira if I learn about their usage, and if the sheer number of instructions does not cause performance or functionality issues.

Combining Marks

These marks can be combined with any of the letters mentioned above:

◌̀	◌́	◌̂	◌̃	◌̄	◌̅	◌̆	◌̇	◌̈	◌̉	◌̊	◌̋	◌̌	◌̍	◌̎	◌̏	◌̐	◌̑	◌̒	◌̓	◌̔	◌̕	◌̖
U+0300	U+0301	U+0302	U+0303	U+0304	U+0305	U+0306	U+0307	U+0308	U+0309	U+030A	U+030B	U+030C	U+030D	U+030E	U+030F	U+0310	U+0311	U+0312	U+0313	U+0314	U+0315	U+0316
◌̗	◌̘	◌̙	◌̚	◌̜	◌̝	◌̞	◌̟	◌̠	◌̣	◌̤	◌̥	◌̦	◌̧	◌̨	◌̩	◌̪	◌̫	◌̬	◌̭	◌̮	◌̯	◌̰
U+0317	U+0318	U+0319	U+031A	U+031C	U+031D	U+031E	U+031F	U+0320	U+0323	U+0324	U+0325	U+0326	U+0327	U+0328	U+0329	U+032A	U+032B	U+032C	U+032D	U+032E	U+032F	U+0330
◌̱	◌̲	◌̳	◌̴	◌̵	◌̶	◌̷	◌̸	◌̹	◌̺	◌̻	◌̼	◌̽	◌̾	◌̿	◌̀	◌́	◌̓	◌̈́	◌͆	◌͇		
U+0331	U+0332	U+0333	U+0334	U+0335	U+0336	U+0337	U+0338	U+0339	U+033A	U+033B	U+033C	U+033D	U+033E	U+033F	U+0340	U+0341	U+0342	U+0343	U+0344	U+0345	U+0346	U+0347
◌͈	◌͉	◌͊	◌͋	◌͌	◌͍	◌͎	◌͐	◌͑	◌͒	◌͓	◌͔	◌͕	◌͖	◌͗	◌͙	◌͚	◌ͣ	◌ͤ	◌ͥ	◌ͦ		
U+0348	U+0349	U+034A	U+034B	U+034C	U+034D	U+034E	U+0350	U+0351	U+0352	U+0353	U+0354	U+0355	U+0356	U+0357	U+0358	U+0359	U+035A	U+0363	U+0364	U+0365	U+0366	
◌ͧ	◌ͨ	◌ͩ	◌ͪ	◌ͫ	◌ͬ	◌ͭ	◌ͮ	◌ͯ	◌ⷀ	◌ⷁ	◌ⷂ	◌ⷃ	◌ⷄ	◌ⷅ	◌ⷆ	◌⷇	◌ⷈ	◌ⷉ	◌ⷊ	◌ⷋ	◌ⷌ	◌ⷍ
U+0367	U+0368	U+0369	U+036A	U+036B	U+036C	U+036D	U+036E	U+036F	U+2DE0	U+2DE1	U+2DE2	U+2DE3	U+2DE4	U+2DE5	U+2DE6	U+2DE7	U+2DE8	U+2DE9	U+2DEA	U+2DEB	U+2DEC	U+2DED
◌ⷎ	◌⷏	◌ⷐ	◌ⷑ	◌ⷒ	◌ⷓ	◌ⷔ	◌ⷕ	◌ⷖ	◌⷗	◌ⷘ	◌ⷙ	◌ⷚ	◌ⷛ	◌ⷜ	◌ⷝ	◌ⷞ	◌⷟	◌꙯	◌ꙴ	◌ꙵ	◌ꙶ	◌ꙷ
U+2DEE	U+2DEF	U+2DF0	U+2DF1	U+2DF2	U+2DF3	U+2DF4	U+2DF5	U+2DF6	U+2DF7	U+2DF8	U+2DF9	U+2DFA	U+2DFB	U+2DFC	U+2DFD	U+2DFE	U+2DFF	U+A66F	U+A674	U+A675	U+A676	U+A677
◌ꙸ	◌ꙹ	◌ꙺ	◌ꙻ	◌꙼	◌꙽	◌ꚟ																
U+A678	U+A679	U+A67A	U+A67B	U+A67C	U+A67D	U+A69F																

You can place any number of marks on each base letter: Q̂̊ f̤̈ X̌̂ Ø̌̂

The dot on i j ɨ ɉ is removed automatically if a mark is put above: i + ̉ → ỉ

It is not removed if a mark is placed below: i + ̥ → i̥

If you want to keep the dot, use an explicit dot accent (U+0307): i + ̇ + ́ → i̇́

The cedilla (U+0327) is automatically turned on the following letters: ģ   j̧ p̧ q̧ y̧ ŋ̧ ģ

Overlines and underlines are placed correctly, but not adjusted to the width of the base letter: Ī M̄

The horn (U+031B) works with O o U u only, as used in Vietnamese: o + ’ → ơ

Varia (U+300) ` and oxia (U+301) ´ are placed next to psili (U+313) ’ and dasia (U+314) ʽ

instead of above, as used in Polytonic Greek: α + ’ + ´ → ἄ

Tagalog

A	Ka	Ga	Nga	Ta	Da	Na	Pa	Ba	Ma	Ya		La	Wa	Sa	Ha
U+1700	U+1703	U+1704	U+1705	U+1706	U+1707	U+1708	U+1709	U+170A	U+170B	U+170C		U+170E	U+170F	U+1710	U+1711
I	Ki	Gi	Ngi	Ti	Di	Ni	Pi	Bi	Mi	Yi		Li	Wi	Si	Hi
U+1701	U+1703 U+1712	U+1704 U+1712	U+1705 U+1712	U+1706 U+1712	U+1707 U+1712	U+1708 U+1712	U+1709 U+1712	U+170A U+1712	U+170B U+1712	U+170C U+1712		U+170E U+1712	U+170F U+1712	U+1710 U+1712	U+1711 U+1712
U	Ku	Gu	Ngu	Tu	Du	Nu	Pu	Bu	Mu	Yu		Lu	Wu	Su	Hu
U+1702	U+1703 U+1713	U+1704 U+1713	U+1705 U+1713	U+1706 U+1713	U+1707 U+1713	U+1708 U+1713	U+1709 U+1713	U+170A U+1713	U+170B U+1713	U+170C U+1713		U+170E U+1713	U+170F U+1713	U+1710 U+1713	U+1711 U+1713
	K	G	Ng	T	D	N	P	B	M	Y		L	W	S	H
	U+1703 U+1714	U+1704 U+1714	U+1705 U+1714	U+1706 U+1714	U+1707 U+1714	U+1708 U+1714	U+1709 U+1714	U+170A U+1714	U+170B U+1714	U+170C U+1714		U+170E U+1714	U+170F U+1714	U+1710 U+1714	U+1711 U+1714

Hanunóo

A	Ka	Ga	Nga	Ta	Da	Na	Pa	Ba	Ma	Ya	Ra	La	Wa	Sa	Ha
U+1720	U+1723	U+1724	U+1725	U+1726	U+1727	U+1728	U+1729	U+172A	U+172B	U+172C	U+172D	U+172E	U+172F	U+1730	U+1731
I	Ki	Gi	Ngi	Ti	Di	Ni	Pi	Bi	Mi	Yi	Ri	Li	Wi	Si	Hi
U+1721	U+1723 U+1732	U+1724 U+1732	U+1725 U+1732	U+1726 U+1732	U+1727 U+1732	U+1728 U+1732	U+1729 U+1732	U+172A U+1732	U+172B U+1732	U+172C U+1732	U+172D U+1732	U+172E U+1732	U+172F U+1732	U+1730 U+1732	U+1731 U+1732
U	Ku	Gu	Ngu	Tu	Du	Nu	Pu	Bu	Mu	Yu	Ru	Lu	Wu	Su	Hu
U+1722	U+1723 U+1733	U+1724 U+1733	U+1725 U+1733	U+1726 U+1733	U+1727 U+1733	U+1728 U+1733	U+1729 U+1733	U+172A U+1733	U+172B U+1733	U+172C U+1733	U+172D U+1733	U+172E U+1733	U+172F U+1733	U+1730 U+1733	U+1731 U+1733

Buhid

A	Ka	Ga	Nga	Ta	Da	Na	Pa	Ba	Ma	Ya	Ra	La	Wa	Sa	Ha
U+1740	U+1743	U+1744	U+1745	U+1746	U+1747	U+1748	U+1749	U+174A	U+174B	U+174C	U+174D	U+174E	U+174F	U+1750	U+1751
I	Ki	Gi	Ngi	Ti	Di	Ni	Pi	Bi	Mi	Yi	Ri	Li	Wi	Si	Hi
U+1741	U+1743 U+1752	U+1744 U+1752	U+1745 U+1752	U+1746 U+1752	U+1747 U+1752	U+1748 U+1752	U+1749 U+1752	U+174A U+1752	U+174B U+1752	U+174C U+1752	U+174D U+1752	U+174E U+1752	U+174F U+1752	U+1750 U+1752	U+1751 U+1752
U	Ku	Gu	Ngu	Tu	Du	Nu	Pu	Bu	Mu	Yu	Ru	Lu	Wu	Su	Hu
U+1742	U+1743 U+1753	U+1744 U+1753	U+1745 U+1753	U+1746 U+1753	U+1747 U+1753	U+1748 U+1753	U+1749 U+1753	U+174A U+1753	U+174B U+1753	U+174C U+1753	U+174D U+1753	U+174E U+1753	U+174F U+1753	U+1750 U+1753	U+1751 U+1753

Tagbanwa

A	Ka	Ga	Nga	Ta	Da	Na	Pa	Ba	Ma	Ya		La	Wa	Sa	
U+1760	U+1763	U+1764	U+1765	U+1766	U+1767	U+1768	U+1769	U+176A	U+176B	U+176C		U+176E	U+176F	U+1770	
I	Ki	Gi	Ngi	Ti	Di	Ni	Pi	Bi	Mi	Yi		Li	Wi	Si	
U+1761	U+1763 U+1772	U+1764 U+1772	U+1765 U+1772	U+1766 U+1772	U+1767 U+1772	U+1768 U+1772	U+1769 U+1772	U+176A U+1772	U+176B U+1772	U+176C U+1772		U+176E U+1772	U+176F U+1772	U+1770 U+1772	
U	Ku	Gu	Ngu	Tu	Du	Nu	Pu	Bu	Mu	Yu		Lu	Wu	Su	
U+1762	U+1763 U+1773	U+1764 U+1773	U+1765 U+1773	U+1766 U+1773	U+1767 U+1773	U+1768 U+1773	U+1769 U+1773	U+176A U+1773	U+176B U+1773	U+176C U+1773		U+176E U+1773	U+176F U+1773	U+1770 U+1773	