

UCA Chart Help

This set of charts shows the Unicode Collation Algorithm values for Unicode characters. The characters are arranged in the following groups:

- Null** Completely ignoreable (primary, secondary and tertiary levels)
These include control codes and various formatting codes.
- Ignorable** Ignorable at a primary level, but not at a secondary or tertiary level.
These include most accents and diacritics.
- Variable** Characters that may be set to ignorable by a programmatic switch.
These include spaces, punctuation marks, and most symbols.
- Common** Characters that are none of the above, but not considered letters.
These include numbers, currency symbols, etc.
- Letters** According to script
- Unsupported** Not explicitly supported in this version of UCA; uses code-point order

The characters* within each group are arranged in cells. The color of the cell indicates the strength of the difference between that character and the *previous* character in the chart, as follows.

Characters which are displayed in blue are not in the Doulos SIL font.

<u>No Expansion</u>	<u>Expansion</u>
a Primary difference 0061	dz Primary difference 01F3
á Secondary Difference 00E1	DZ Secondary Difference 01F1
À Tertiary difference 0041	Dz Tertiary difference 01F2
Ā Quarternary difference or no difference 212B	Quarternary difference or no difference

*In some cases, the UCA data table also includes contractions.

They can be recognized by the multiple code point numbers, as in the following:



Notes

- The UCA results are versioned *both* by the version of the UCA *and* by the version of The Unicode Standard used to process the data.
- These charts only provide one of the alternatives for handling variable characters (punctuation), whereby these characters are **non-ignorable**.
- Characters from large blocks, such as CJK-Ideographs, Hangul Syllables, Private Use Area, etc. are represented by a sampling.
- Some unassigned code points, noncharacters and other edge cases are also added to the list for comparison.
- For more information, see [UTS #10: Unicode Collation Algorithm](#).

Latin

a 0061	ɑ FF41	Ɑ 0363	□ 1D41A	□ 1D44E	□ 1D482	□ 1D4B6	□ 1D4EA	□ 1D51E	□ 1D552	□ 1D586
	□ 1D5BA	□ 1D5EE	□ 1D622	□ 1D656	□ 1D68A	Ⓐ 24D0	A 0041	Ȧ FF21	□ 1D400	□ 1D434
	□ 1D468	□ 1D49C	□ 1D4D0	□ 1D504	□ 1D538	□ 1D56C	□ 1D5A0	□ 1D5D4	□ 1D608	□ 1D63C
	□ 1D670	Ⓐ 24B6	ɑ 00AA	Ɑ 1D43	Ɑ 2090	A 1D2C	á 00E1	Á 00C1	à 00E0	À 00C0
	ǎ 0103	Ǻ 0102	ǻ 1EAF	Ǽ 1EAE	ǽ 1EB1	Ǿ 1EB0	ǿ 1EB5	ǿ 1EB4	ǿ 1EB3	ǿ 1EB2
	â 00E2	Â 00C2	á 1EA5	Á 1EA4	à 1EA7	À 1EA6	ã 1EAB	Ã 1EAA	â 1EA9	Â 1EA8
	ǻ 01CE	Ǻ 01CD	ǻ 00E5	Ǽ 00C5	ǽ 212B	Ǿ 01FB	ǿ 01FA	ä 00E4	Ä 00C4	ā 01DF
	Ā 01DE	ã 00E3	Ã 00C3	à 0227	À 0226	ā 01E1	Ā 01E0	ą 0105	Ą 0104	ā 0101
	Ā 0100	ǻ 1EA3	Ǽ 1EA2	à 0201	À 0200	â 0203	Ā 0202	ą 1EA1	Ą 1EA0	ǻ 1EB7
	Ǻ 1EB6	â 1EAD	Ā 1EAC	ą 1E01	Ą 1E00	□ 1DD3	am 33C2	æ/c 2100	æ/s 2101	æ/m 33DF
	ǻ A733	AA A732	æ 00E6	□ 1DD4	Æ 00C6	Æ 1D2D	é 01FD	É 01FC	æ 01E3	Ē 01E2
	□ 1DD5	æ A735	AO A734	au A737	AU A736	AU 3373	□ 1DD6	av A739	AV A738	av A73B
	AV A73A	av A73D	AV A73C	à 1E9A						
A 1D00										
ǻ 2C65	Ǻ 023A									
ɑ 1D8F										
Æ 1D01										
æ 1D02	æ 1D46									

ɐ 0250	Ƶ 2C6F	ɐ 1D44	
ɑ 0251	Ɔ 2C6D	ɑ 1D45	
ɑ̃ 1D90			
ɒ 0252	ɒ 1D9B		

b 0062	b FF42	□ 1D41B	□ 1D44F	□ 1D483	□ 1D4B7	□ 1D4EB	□ 1D51F	□ 1D553	□ 1D587	□ 1D5BB
	□ 1D5EF	□ 1D623	□ 1D657	□ 1D68B	Ⓟ 24D1	B 0042	B FF22	<i>B</i> 212C	□ 1D401	□ 1D435
	□ 1D469	□ 1D4D1	□ 1D505	□ 1D539	□ 1D56D	□ 1D5A1	□ 1D5D5	□ 1D609	□ 1D63D	□ 1D671
	Ⓟ 24B7	b 1D47	B 1D2E	ḃ 1E03	Ḃ 1E02	ḅ 1E05	Ḅ 1E04	ḇ 1E07	Ḇ 1E06	<i>bar</i> 3374
	Bq 33C3									
B 0299										
ḃ 0180	Ḃ 0243									
B 1D2F										
B 1D03										
ḃ 1D6C										
ḅ 1D80										
Ḇ 0253	Ḃ 0181									
Ḃ 0183	Ḃ 0182									

δ

1E9F

e 0065	e FF45	ċ 0364	e 212F	e 2147	□ 1D41E	□ 1D452	□ 1D486	□ 1D4EE	□ 1D522	□ 1D556
	□ 1D58A	□ 1D5BE	□ 1D5F2	□ 1D626	□ 1D65A	□ 1D68E	ⓔ 24D4	Ǝ 0045	Ǝ FF25	Ǝ 2130
	□ 1D404	□ 1D438	□ 1D46C	□ 1D4D4	□ 1D508	□ 1D53C	□ 1D570	□ 1D5A4	□ 1D5D8	□ 1D60C
	□ 1D640	□ 1D674	ⓔ 24BA	ċ 1D49	e 2091	Ǝ 1D31	é 00E9	É 00C9	è 00E8	È 00C8
	ě 0115	Ě 0114	ê 00EA	Ê 00CA	é 1EBF	É 1EBE	è 1EC1	È 1EC0	ẽ 1EC5	Ë 1EC4
	Ě 1EC3	Ě 1EC2	ě 011B	Ě 011A	ë 00EB	Ë 00CB	ẽ 1EBD	Ë 1EBC	è 0117	È 0116
	ę 0229	Ę 0228	ę 1E1D	Ę 1E1C	ę 0119	Ę 0118	ē 0113	Ē 0112	é 1E17	É 1E16
	è 1E15	È 1E14	è 1EBB	È 1EBA	è 0205	È 0204	ê 0207	Ê 0206	ę 1EB9	Ę 1EB8
	ê 1EC7	Ê 1EC6	ę 1E19	Ę 1E18	ę 1E1B	Ę 1E1A	erg 32CD	eV 32CE		
Ǝ 1D07										
Ǝ 0247	Ǝ 0246									
ę 1D92										
e 2C78										
ə 01DD	Ǝ 018E	Ǝ 1D32								
Ǝ 2C7B										
ə 0259	Ǝ 018F	ə 1D4A	ə 2094							
ə 1D95										
Ǝ 025B	Ǝ 0190	Ǝ 2107	Ǝ 1D4B							

<p>Ξ 1D93</p>	
<p>Θ 0258</p>	
<p>Θ° 025A</p>	
<p>Ξ 025C</p>	<p>Ξ 1D9F</p>
<p>Ξ 1D94</p>	
<p>Ξ 1D08</p>	<p>Ξ 1D4C</p>
<p>Ξ° 025D</p>	
<p>Θ 025E</p>	
<p>Θ 029A</p>	
<p>Υ 0264</p>	

f 0066	f FF46	□ 1D41F	□ 1D453	□ 1D487	□ 1D4BB	□ 1D4EF	□ 1D523	□ 1D557	□ 1D58B	□ 1D5BF
	□ 1D5F3	□ 1D627	□ 1D65B	□ 1D68F	ⓕ 24D5	F 0046	F FF26	ƒ 2131	□ 1D405	□ 1D439
	□ 1D46D	□ 1D4D5	□ 1D509	□ 1D53D	□ 1D571	□ 1D5A5	□ 1D5D9	□ 1D60D	□ 1D641	□ 1D675
	ⓕ 24BB	f 1DA0	ḟ 1E1F	Ḟ 1E1E	F A77C	F A77B	F_x 213B	ff FB00	ffi FB03	ffl FB04
	fi FB01	fl FB02	fm 3399	fŋ 02A9						
F A730										
ƒ 1D6E										
f 1D82										
f 0192	F 0191									
Ɔ 214E	Ɔ 2132									
Ɔ A7FB										

ğ 0067	ğ FF47	◌◌ 1DDA	ğ 210A	◌ 1D420	◌ 1D454	◌ 1D488	◌ 1D4F0	◌ 1D524	◌ 1D558	◌ 1D58C
	◌ 1D5C0	◌ 1D5F4	◌ 1D628	◌ 1D65C	◌ 1D690	Ⓔ 24D6	Ḡ 0047	Ḡ FF27	◌ 1D406	◌ 1D43A
	◌ 1D46E	◌ 1D4A2	◌ 1D4D6	◌ 1D50A	◌ 1D53E	◌ 1D572	◌ 1D5A6	◌ 1D5DA	◌ 1D60E	◌ 1D642
	◌ 1D676	Ḡ 24BC	ğ 1D4D	Ḡ 1D33	ḡ 01F5	Ḡ 01F4	ḡḡ 011F	Ḡ 011E	ḡ 011D	Ḡ 011C
	ḡ 01E7	Ḡ 01E6	ḡ 0121	Ḡ 0120	ḡ 0123	Ḡ 0122	ḡḡ 1E21	Ḡ 1E20	ḡ 1D79	ḡ A77D
	gal 33FF	GB 3387	GHz 3393	GPa 33AC	Gy 33C9					
ğ 0261	ğ 1DA2									
Ḡ 0262	◌◌ 1DDB									
ḡ 01E5	Ḡ 01E4									
ğ 1D83										
ğ 0260	Ḡ 0193									
Ḡ 029B										
ḡ 1D77										
ğ A77F	ğ A77E									
γ 0263	Υ 0194	γ 02E0								
ḡ 01A3	Ḡ 01A2									

h 0068	h FF48	h 036A	h 210E	□ 1D421	□ 1D489	□ 1D4BD	□ 1D4F1	□ 1D525	□ 1D559	□ 1D58D
	□ 1D5C1	□ 1D5F5	□ 1D629	□ 1D65D	□ 1D691	Ⓜ 24D7	H 0048	H FF28	ℋ 210B	ℋ 210C
	ℋ 210D	□ 1D407	□ 1D43B	□ 1D46F	□ 1D4D7	□ 1D573	□ 1D5A7	□ 1D5DB	□ 1D60F	□ 1D643
	□ 1D677	Ⓜ 24BD	h 02B0	H 1D34	ĥ 0125	Ĥ 0124	ħ 021F	Ĥ 021E	ḧ 1E27	Ḧ 1E26
	ḣ 1E23	Ḣ 1E22	ḥ 1E29	Ḥ 1E28	ḥ 1E25	Ḥ 1E24	ḥ 1E2B	Ḥ 1E2A	ḥ 1E96	ḥ 0127
	ħ 210F	ℋ 0126	ha 33CA	Hg 32CC	HP 33CB	hPa 3371	Hz 3390			
H 029C										
h 0195	H 01F6									
ĥ 0266	ĥ 02B1									
ḥ 2C68	Ḥ 2C67									
ℋ 2C76	ℋ 2C75									
ḣ A727	Ḣ A726									
ḧ 0267										
ˆ 02BB										
ˆ 02BD										

i 0069	ı FF49	ı̇ 0365	ı 2170	ı 2139	ı 2148	□ 1D422	□ 1D456	□ 1D48A	□ 1D4BE	□ 1D4F2
	□ 1D526	□ 1D55A	□ 1D58E	□ 1D5C2	□ 1D5F6	□ 1D62A	□ 1D65E	□ 1D692	ı̇ 24D8	I 0049
	I FF29	I 2160	ı̇ 2110	ı̇ 2111	□ 1D408	□ 1D43C	□ 1D470	□ 1D4D8	□ 1D540	□ 1D574
	□ 1D5A8	□ 1D5DC	□ 1D610	□ 1D644	□ 1D678	İ 24BE	ı 2071	ı 1D62	I 1D35	ı̇ 00ED
	ı̇ 00CD	ı̇ 00EC	ı̇ 00CC	ı̇ 012D	ı̇ 012C	ı̇ 00EE	ı̇ 00CE	ı̇ 01D0	ı̇ 01CF	ı̇ 00EF
	ı̇ 00CF	ı̇ 1E2F	ı̇ 1E2E	ı̇ 0129	ı̇ 0128	ı̇ 0130	ı̇ 012F	ı̇ 012E	ı̇ 012B	ı̇ 012A
	ı̇ 1EC9	ı̇ 1EC8	ı̇ 0209	ı̇ 0208	ı̇ 020B	ı̇ 020A	ı̇ 1ECB	ı̇ 1ECA	ı̇ 1E2D	ı̇ 1E2C
	ii 2171	II 2161	iii 2172	III 2162	ij 0133	IJ 0132	in 33CC	IU 337A	iv 2173	IV 2163
	ix 2178	IX 2168								
l 0131	□ 1D6A4									
l 026A	l 1DA6									
l A7FE										
l̇ 1D09	l̇ 1D4E									
l̇ 0268	l̇ 0197	l̇ 1DA4								
l̇ 1D7B	l̇ 1DA7									
l̇ 1D96										
l̇ 0269	l̇ 0196	l̇ 1DA5								
l̇ 1D7C										

k 006B	ƙ FF4B	◌◌◌ 1DDC	◻ 1D424	◻ 1D458	◻ 1D48C	◻ 1D4C0	◻ 1D4F4	◻ 1D528	◻ 1D55C	◻ 1D590
	◻ 1D5C4	◻ 1D5F8	◻ 1D62C	◻ 1D660	◻ 1D694	Ⓚ 24DA	K 004B	K 212A	Ƙ FF2B	◻ 1D40A
	◻ 1D43E	◻ 1D472	◻ 1D4A6	◻ 1D4DA	◻ 1D50E	◻ 1D542	◻ 1D576	◻ 1D5AA	◻ 1D5DE	◻ 1D612
	◻ 1D646	◻ 1D67A	Ⓚ 24C0	k 1D4F	K 1D37	ƙ 1E31	Ƙ 1E30	ķ 01E9	Ķ 01E8	ķ 0137
	Ƙ 0136	ƙ 1E33	Ƙ 1E32	ƙ 1E35	Ƙ 1E34	kA 3384	KB 3385	kcal 3389	kg 338F	kHz 3391
	KK 33CD	kℓ 3398	km 339E	KM 33CE	km² 33A2	km³ 33A6	kPa 33AA	kt 33CF	kV 33B8	kV 33BE
	kΩ 33C0									
K 1D0B										
ķ 1D84										
Ƙ 0199	K 0198									
ƙ 2C6A	Ƙ 2C69									
ƙ A741	Ƙ A740									
ƙ A743	Ƙ A742									
ƙ A745	Ƙ A744									
Ƙ 029E										

l 006C	l FF4C	◌ ◻ 1DDD	l 217C	ℓ 2113	◻ 1D425	◻ 1D459	◻ 1D48D	◻ 1D4C1	◻ 1D4F5	◻ 1D529
	◻ 1D55D	◻ 1D591	◻ 1D5C5	◻ 1D5F9	◻ 1D62D	◻ 1D661	◻ 1D695	Ⓛ 24DB	L 004C	L FF2C
	L 216C	ℒ 2112	◻ 1D40B	◻ 1D43F	◻ 1D473	◻ 1D4DB	◻ 1D50F	◻ 1D543	◻ 1D577	◻ 1D5AB
	◻ 1D5DF	◻ 1D613	◻ 1D647	◻ 1D67B	Ⓛ 24C1	l 02E1	L 1D38	Í 013A	Í 0139	İ 013E
	ℒ 013D	ḷ 013C	ℒ 013B	ḷ 1E37	ℒ 1E36	ḷ 1E39	ℒ 1E38	ḷ 1E3D	ℒ 1E3C	ḷ 1E3B
	ℒ 1E3A	ł 0142	Ł 0141	ḷ 006C 00B7	ḷ 006C 0387	ḷ 0140	Ḷ 004C 00B7	Ḷ 004C 0387	Ḷ 013F	lj 01C9
	Lj 01C8	LJ 01C7	ll 1EFA	ll 1EFB	lm 33D0	ln 33D1	log 33D2	ls 02AA	lll 32CF	lx 33D3
	ḷ 02AB									
L 029F	◌ ◻ 1DDE	L 1DAB								
ḷ A747	ℒ A746									
ℒ 1D0C										
ḷ A749	ℒ A748									
ł 019A	Ł 023D									
ł 2C61	Ł 2C60									
ł 026B	Ł 2C62									
ł 026C										
ḷ 1D85	ḷ 1DAA									
ḷ	ḷ									

026D	1DA9
ᵐ 0234	
ᵐ A772	
ᵐ 026E	
ᵐ A781	ᵐ A780
ᵐ 019B	
ᵐ 028E	

m 006D	m FF4D	m 036B	m 217F	□ 1D426	□ 1D45A	□ 1D48E	□ 1D4C2	□ 1D4F6	□ 1D52A	□ 1D55E
	□ 1D592	□ 1D5C6	□ 1D5FA	□ 1D62E	□ 1D662	□ 1D696	Ⓜ 24DC	M 004D	M FF2D	M 216F
	m 2133	□ 1D40C	□ 1D440	□ 1D474	□ 1D4DC	□ 1D510	□ 1D544	□ 1D578	□ 1D5AC	□ 1D5E0
	□ 1D614	□ 1D648	□ 1D67C	Ⓜ 24C2	m 1D50	M 1D39	ḿ 1E3F	Ḳ 1E3E	ḿ 1E41	Ḳ 1E40
	m̂ 1E43	M̂ 1E42	m/s 33A7	m/s² 33A8	m² 33A1	m³ 33A5	mA 3383	mb 33D4	MB 3386	mg 338E
	MHz 3392	mil 33D5	mℓ 3396	mm 339C	mm² 339F	mm³ 33A3	mol 33D6	MPa 33AB	ms 33B3	mV 33B7
	MV 33B9	mW 33BD	MW 33BF	MΩ 33C1						
M 1D0D	□ 1DDF									
Ṁ 1D6F										
ḿ 1D86										
ḿ 0271	M̂ 2C6E	ḿ 1DAC								
W A7FD										
W A7FF										
ḿ A773										

n 006E	n FF4E	◌ ◻ 1DE0	◻ 1D427	◻ 1D45B	◻ 1D48F	◻ 1D4C3	◻ 1D4F7	◻ 1D52B	◻ 1D55F	◻ 1D593
	◻ 1D5C7	◻ 1D5FB	◻ 1D62F	◻ 1D663	◻ 1D697	Ⓝ 24DD	N 004E	N FF2E	N 2115	◻ 1D40D
	◻ 1D441	◻ 1D475	◻ 1D4A9	◻ 1D4DD	◻ 1D511	◻ 1D579	◻ 1D5AD	◻ 1D5E1	◻ 1D615	◻ 1D649
	◻ 1D67D	Ⓝ 24C3	n 207F	N 1D3A	ń 0144	Ń 0143	ñ 01F9	Ñ 01F8	ň 0148	Ň 0147
	ñ 00F1	Ñ 00D1	ń 1E45	Ń 1E44	ņ 0146	Ņ 0145	ṅ 1E47	Ṅ 1E46	ṅ̆ 1E4B	Ṇ 1E4A
	ṅ 1E49	Ṅ 1E48	nA 3381	nF 338B	nj 01CC	Nj 01CB	NJ 01CA	nm 339A	N̄ 2116	ns 33B1
	nV 33B5	nW 33BB								
N 0274	◌ ◻ 1DE1	N 1DB0								
ℵ 1D3B										
ℵ 1D0E										
Ɱ 1D70										
ƚ 0272	N 019D	ƚ 1DAE								
ŋ 019E	ŋ 0220									
ṅ 1D87										
ṅ 0273	ṅ 1DAF									
ṅ̆ 0235										
ṅ̇ A774										
ṅ̈ 014B	ṅ̈ 014A	ṅ̈ 1D51								

⓪ 006F	⓪ FF4F	⓪ 0366	⓪ 2134	⓪ 1D428	⓪ 1D45C	⓪ 1D490	⓪ 1D4F8	⓪ 1D52C	⓪ 1D560	⓪ 1D594
	⓪ 1D5C8	⓪ 1D5FC	⓪ 1D630	⓪ 1D664	⓪ 1D698	⓪ 24DE	⓪ 004F	⓪ FF2F	⓪ 1D40E	⓪ 1D442
	⓪ 1D476	⓪ 1D4AA	⓪ 1D4DE	⓪ 1D512	⓪ 1D546	⓪ 1D57A	⓪ 1D5AE	⓪ 1D5E2	⓪ 1D616	⓪ 1D64A
	⓪ 1D67E	⓪ 24C4	⓪ 00BA	⓪ 1D52	⓪ 2092	⓪ 1D3C	⓪ 00F3	⓪ 00D3	⓪ 00F2	⓪ 00D2
	⓪ 014F	⓪ 014E	⓪ 00F4	⓪ 00D4	⓪ 1ED1	⓪ 1ED0	⓪ 1ED3	⓪ 1ED2	⓪ 1ED7	⓪ 1ED6
	⓪ 1ED5	⓪ 1ED4	⓪ 01D2	⓪ 01D1	⓪ 00F6	⓪ 00D6	⓪ 022B	⓪ 022A	⓪ 0151	⓪ 0150
	⓪ 00F5	⓪ 00D5	⓪ 1E4D	⓪ 1E4C	⓪ 1E4F	⓪ 1E4E	⓪ 022D	⓪ 022C	⓪ 022F	⓪ 022E
	⓪ 0231	⓪ 0230	⓪ 00F8	⓪ 00D8	⓪ 01FF	⓪ 01FE	⓪ 01EB	⓪ 01EA	⓪ 01ED	⓪ 01EC
	⓪ 014D	⓪ 014C	⓪ 1E53	⓪ 1E52	⓪ 1E51	⓪ 1E50	⓪ 1ECF	⓪ 1ECE	⓪ 020D	⓪ 020C
	⓪ 020F	⓪ 020E	⓪ 01A1	⓪ 01A0	⓪ 1EDB	⓪ 1EDA	⓪ 1EDD	⓪ 1EDC	⓪ 1EE1	⓪ 1EE0
	⓪ 1EDF	⓪ 1EDE	⓪ 1EE3	⓪ 1EE2	⓪ 1ECD	⓪ 1ECC	⓪ 1ED9	⓪ 1ED8	⓪ 0153	⓪ 0152
	⓪ A74F	⓪ A74E	⓪ 3375							
⓪ 1D0F										
⓪ 1D11										
⓪ 0276										
⓪ 1D14										
⓪ 1D13										
⓪ 0254	⓪ 0186	⓪ 1D53								
⓪										

1D10		
☺		
1D12		
☺		
1D97		
☺	☺	
A74D	A74C	
☺	☺	
1D16	1D54	
☺	☺	
1D17	1D55	
☺		
2C7A		
☺	☺	☺
0275	019F	1DB1
☺	☺	
A74B	A74A	
☺		
0277		
☺	☺	☺
0223	0222	1D3D
☺		
1D15		

q 0071	q FF51	□ 1D42A	□ 1D45E	□ 1D492	□ 1D4C6	□ 1D4FA	□ 1D52E	□ 1D562	□ 1D596	□ 1D5CA
	□ 1D5FE	□ 1D632	□ 1D666	□ 1D69A	Ⓚ 24E0	Q 0051	Q FF31	Q 211A	□ 1D410	□ 1D444
	□ 1D478	□ 1D4AC	□ 1D4E0	□ 1D514	□ 1D57C	□ 1D5B0	□ 1D5E4	□ 1D618	□ 1D64C	□ 1D680
	Ⓚ 24C6	ϕ 0239								
q A757	Q A756									
q A759	Q A758									
q 02A0										
q 024B	q 024A									
K 0138										

ŕ 0072	Ṛ FF52	Ṛ̇ 036C	Ṛ̇ 1DCA	Ṛ̇ 1D42B	Ṛ̇ 1D45F	Ṛ̇ 1D493	Ṛ̇ 1D4C7	Ṛ̇ 1D4FB	Ṛ̇ 1D52F	Ṛ̇ 1D563
	Ṛ̇ 1D597	Ṛ̇ 1D5CB	Ṛ̇ 1D5FF	Ṛ̇ 1D633	Ṛ̇ 1D667	Ṛ̇ 1D69B	Ṛ̇ 24E1	Ṛ 0052	Ṛ FF32	Ṛ 211B
	Ṛ 211C	Ṛ 211D	Ṛ̇ 1D411	Ṛ̇ 1D445	Ṛ̇ 1D479	Ṛ̇ 1D4E1	Ṛ̇ 1D57D	Ṛ̇ 1D5B1	Ṛ̇ 1D5E5	Ṛ̇ 1D619
	Ṛ̇ 1D64D	Ṛ̇ 1D681	Ṛ̇ 24C7	Ṛ 02B3	Ṛ 1D63	Ṛ 1D3F	Ṛ̇ 0155	Ṛ̇ 0154	Ṛ̇ 0159	Ṛ̇ 0158
	Ṛ̇ 1E59	Ṛ̇ 1E58	Ṛ̇ 0157	Ṛ̇ 0156	Ṛ̇ 0211	Ṛ̇ 0210	Ṛ̇ 0213	Ṛ̇ 0212	Ṛ̇ 1E5B	Ṛ̇ 1E5A
	Ṛ̇ 1E5D	Ṛ̇ 1E5C	Ṛ̇ 1E5F	Ṛ̇ 1E5E	Ṛ̇ A783	Ṛ̇ A782	rad 33AD	rad/s 33AE	rad/s ² 33AF	Rs 20A8
Ṛ 0280	Ṛ̇ 1DE2	Ṛ 01A6								
Ṛ A75B	Ṛ̇ 1DE3	Ṛ A75A								
Ṛ 1D19										
Ṛ 024D	Ṛ 024C									
Ṛ 1D72										
Ṛ 0279	Ṛ̇ 02B4									
Ṛ 1D1A										
Ṛ 027A										
Ṛ 1D89										
Ṛ 027B	Ṛ̇ 02B5									
Ṛ 2C79										
Ṛ 027C										

Ƨ 027D	℞ 2C64
ŕ 027E	
ƒ 1D73	
ŀ 027F	
Ƙ 0281	ƙ 02B6
ŕ A775	
℞ A776	
ƚ A75D	ƚ A75C

Š 0073	Š FF53	◌̇ ◌̈ 1DE4	◌̇ 1D42C	◌̇ 1D460	◌̇ 1D494	◌̇ 1D4C8	◌̇ 1D4FC	◌̇ 1D530	◌̇ 1D564	◌̇ 1D598
	◌̇ 1D5CC	◌̇ 1D600	◌̇ 1D634	◌̇ 1D668	◌̇ 1D69C	Ⓢ 24E2	Š 0053	Š FF33	◌̇ 1D412	◌̇ 1D446
	◌̇ 1D47A	◌̇ 1D4AE	◌̇ 1D4E2	◌̇ 1D516	◌̇ 1D54A	◌̇ 1D57E	◌̇ 1D5B2	◌̇ 1D5E6	◌̇ 1D61A	◌̇ 1D64E
	◌̇ 1D682	Ⓢ 24C8	š 02E2	ṧ 015B	Ṧ 015A	ṧ 1E65	Ṧ 1E64	ṧ 015D	Ṧ 015C	ṧ 0161
	Ṧ 0160	ṧ 1E67	Ṧ 1E66	ṧ 1E61	Ṧ 1E60	ṧ 015F	Ṧ 015E	ṧ 1E63	Ṧ 1E62	ṧ 1E69
	ṧ 1E68	ṧ 0219	Ṧ 0218	ƒ 017F	◌̇ ◌̈ 1DE5	ŕ A785	ŕ A784	ŕ̇ 1E9B	SM 2120	sr 33DB
	ß 00DF	ß 1E9E	st FB06	ft FB05	Sv 33DC					
Š A731										
Š 1D74										
Š 1D8A										
Š 0282	ṧ 1DB3									
Š 023F										
ƒ 1E9C										
ŕ 1E9D										
∫ 0283	Σ 01A9	∫ 1DB4								
∫ 1D8B										
ŕ 01AA										
ŕ 0285										

∫

1D98

∫

0286

ƚ 0074	ƚ FF54	ƚ̇ 036D	□ 1D42D	□ 1D461	□ 1D495	□ 1D4C9	□ 1D4FD	□ 1D531	□ 1D565	□ 1D599
	□ 1D5CD	□ 1D601	□ 1D635	□ 1D669	□ 1D69D	Ⓣ 24E3	ƚ 0054	ƚ FF34	□ 1D413	□ 1D447
	□ 1D47B	□ 1D4AF	□ 1D4E3	□ 1D517	□ 1D54B	□ 1D57F	□ 1D5B3	□ 1D5E7	□ 1D61B	□ 1D64F
	□ 1D683	Ⓣ 24C9	ƚ 1D57	ƚ 1D40	ƚ̇ 0165	ƚ̇ 0164	ƚ̇ 1E97	ƚ̇ 1E6B	ƚ̇ 1E6A	ƚ̇ 0163
	ƚ̇ 0162	ƚ̇ 1E6D	ƚ̇ 1E6C	ƚ̇ 021B	ƚ̇ 021A	ƚ̇ 1E71	ƚ̇ 1E70	ƚ̇ 1E6F	ƚ̇ 1E6E	ƚ̇ A787
	ƚ̇ A786	ƚ̇ 02A8	ƚ̇ 2121	ƚ̇ 1D7A	ƚ̇ 3394	ƚ̇ 2122	ƚ̇ 01BE	ƚ̇ 02A6	ƚ̇ 02A7	ƚ̇ A729
	ƚ̇ A728									
ƚ 1D1B										
ƚ̇ 0167	ƚ̇ 0166									
ƚ̇ 2C66	ƚ̇ 023E									
ƚ̇ 1D75										
ƚ̇ 01AB	ƚ̇ 1DB5									
ƚ̇ 01AD	ƚ̇ 01AC									
ƚ̇ 0288	ƚ̇ 01AE									
ƚ̇ 0236										
ƚ̇ A777										
ƚ̇ 0287										

u 0075	U FF55	u 0367	□ 1D42E	□ 1D462	□ 1D496	□ 1D4CA	□ 1D4FE	□ 1D532	□ 1D566	□ 1D59A
	□ 1D5CE	□ 1D602	□ 1D636	□ 1D66A	□ 1D69E	Ⓜ 24E4	U 0055	U FF35	□ 1D414	□ 1D448
	□ 1D47C	□ 1D4B0	□ 1D4E4	□ 1D518	□ 1D54C	□ 1D580	□ 1D5B4	□ 1D5E8	□ 1D61C	□ 1D650
	□ 1D684	Ⓜ 24CA	u 1D58	u 1D64	U 1D41	ú 00FA	Ú 00DA	ù 00F9	Ù 00D9	ǔ 016D
	Ů 016C	û 00FB	Û 00DB	ǘ 01D4	ǚ 01D3	ũ 016F	Ů 016E	ü 00FC	Û 00DC	ú 01D8
	Ú 01D7	ù 01DC	Û 01DB	ǘ 01DA	ǚ 01D9	ũ 01D6	Ů 01D5	ú 0171	Ú 0170	ũ 0169
	Ů 0168	ú 1E79	Ú 1E78	u 0173	U 0172	ū 016B	Ū 016A	ü 1E7B	Û 1E7A	ú 1EE7
	Ů 1EE6	ù 0215	Û 0214	û 0217	Û 0216	ư 01B0	Ư 01AF	ứ 1EE9	Ứ 1EE8	ừ 1EEB
	Ừ 1EEA	ữ 1EEF	Ỡ 1EEE	ử 1EED	Ự 1EEC	ự 1EF1	Ự 1EF0	ụ 1EE5	Ự 1EE4	ụ 1E73
	Ự 1E72	ự 1E77	Ự 1E76	ự 1E75	Ự 1E74					
U 1D1C	u 1DB8									
u 1D1D	u 1D59									
u 1D1E										
u 1D6B										
u 0289	U 0244	u 1DB6								
U 1D7E										
u 1D99										
u 0265	u 1DA3									

ຸ 02AE			
ຸ 02AF			
ຸ 026F	ຸ 019C	ຸ 1D5A	
ຸ 1D1F			
ຸ 0270	ຸ 1DAD		
ຸ 028A	ຸ 01B1	ຸ 1DB7	
ຸ 1D7F			

V 0076	V FF56	ⱱ 036E	V 2174	ⱱ 1D42F	ⱱ 1D463	ⱱ 1D497	ⱱ 1D4CB	ⱱ 1D4FF	ⱱ 1D533	ⱱ 1D567
	ⱱ 1D59B	ⱱ 1D5CF	ⱱ 1D603	ⱱ 1D637	ⱱ 1D66B	ⱱ 1D69F	ⱱ 24E5	V 0056	V FF36	V 2164
	ⱱ 1D415	ⱱ 1D449	ⱱ 1D47D	ⱱ 1D4B1	ⱱ 1D4E5	ⱱ 1D519	ⱱ 1D54D	ⱱ 1D581	ⱱ 1D5B5	ⱱ 1D5E9
	ⱱ 1D61D	ⱱ 1D651	ⱱ 1D685	ⱱ 24CB	v 1D5B	v 1D65	v 2C7D	Ṽ 1E7D	Ṽ 1E7C	ṽ 1E7F
	Ÿ 1E7E	Ƶm 33DE	vi 2175	VI 2165	vii 2176	VII 2166	viii 2177	VIII 2167	Ƶ A761	ƶ A760
V 1D20										
Ƶ A75F	ƶ A75E									
Ÿ 1D8C										
U 028B	U 01B2	u 1DB9								
V 2C71										
v 2C74										
6 1EFD	6 1EFC									
Λ 028C	Λ 0245	^ 1DBA								

W 0077	W FF57	□ 1D430	□ 1D464	□ 1D498	□ 1D4CC	□ 1D500	□ 1D534	□ 1D568	□ 1D59C	□ 1D5D0
	□ 1D604	□ 1D638	□ 1D66C	□ 1D6A0	Ⓜ 24E6	W 0057	W FF37	□ 1D416	□ 1D44A	□ 1D47E
	□ 1D4B2	□ 1D4E6	□ 1D51A	□ 1D54E	□ 1D582	□ 1D5B6	□ 1D5EA	□ 1D61E	□ 1D652	□ 1D686
	Ⓜ 24CC	w 02B7	W 1D42	ŵ 1E83	Ŵ 1E82	Ẁ 1E81	Ẃ 1E80	Ẅ 0175	Ẇ 0174	Ẉ 1E98
	Ẅ 1E85	Ẇ 1E84	Ẉ 1E87	Ẋ 1E86	Ẏ 1E89	ẏ 1E88	Wb 33DD			
W 1D21										
W 2C73	W 2C72									
Λ 028D										

X 0078	X̄ FF58	Ẋ 036F	X 2179	X̂ 1D431	X̃ 1D465	X̄ 1D499	X̅ 1D4CD	X̆ 1D501	Ẋ 1D535	Ẍ 1D569
	X̉ 1D59D	X̊ 1D5D1	X̋ 1D605	X̌ 1D639	X̍ 1D66D	X̎ 1D6A1	X̏ 24E7	X̐ 0058	X̑ FF38	X̒ 2169
	X̓ 1D417	X̔ 1D44B	X̕ 1D47F	X̖ 1D4B3	X̗ 1D4E7	X̘ 1D51B	X̙ 1D54F	X̚ 1D583	X̛ 1D5B7	X̜ 1D5EB
	X̝ 1D61F	X̞ 1D653	X̟ 1D687	X̠ 24CD	x̡ 02E3	x̢ 2093	x̣ 1E8D	x̤ 1E8C	x̥ 1E8B	x̦ 1E8A
	xi 217A	XI 216A	xii 217B	XII 216B						
X̧ 1D8D										

y 0079	ŷ FF59	□ 1D432	□ 1D466	□ 1D49A	□ 1D4CE	□ 1D502	□ 1D536	□ 1D56A	□ 1D59E	□ 1D5D2
	□ 1D606	□ 1D63A	□ 1D66E	□ 1D6A2	⓪ 24E8	Ÿ 0059	Ÿ FF39	□ 1D418	□ 1D44C	□ 1D480
	□ 1D4B4	□ 1D4E8	□ 1D51C	□ 1D550	□ 1D584	□ 1D5B8	□ 1D5EC	□ 1D620	□ 1D654	□ 1D688
	⓪ 24CE	ŷ 02B8	ŷ 00FD	Ÿ 00DD	ŷ 1EF3	Ÿ 1EF2	ŷ 0177	Ÿ 0176	ŷ 1E99	ŷ 00FF
	Ÿ 0178	ŷ 1EF9	Ÿ 1EF8	ŷ 1E8F	Ÿ 1E8E	ŷ 0233	Ÿ 0232	ŷ 1EF7	Ÿ 1EF6	ŷ 1EF5
	Ÿ 1EF4									
Ÿ 028F										
ŷ 024F	Ÿ 024E									
ŷ 01B4	Ÿ 01B3									
ŷ 1EFF	ŷ 1EFE									

Ʒ 1D9A			
Ʒ 01BA			
Ʒ 0293			
Ʒ 021D	Ʒ 021C		
Ɔ 00FE	Ɔ 00DE		
Ɔ A765	Ɔ A764		
Ɔ A767	Ɔ A766		
Ɔ 01BF	Ɔ 01F7		
Ɔ A769	Ɔ A768		
Ɔ A76B	Ɔ A76A		
Ɔ A76D	Ɔ A76C		
Ɔ A76F	◻ ◻ 1DD2	Ɔ A76E	Ɔ A770
Ɔ A778			
Ɔ 01BB			
Ɔ A72B	Ɔ A72A		
Ɔ A72D	Ɔ A72C		
Ɔ A72F	Ɔ A72E		
Ɔ 01A8	Ɔ 01A7		

5 01BD	5 01BC
ᵇ 0185	ᵇ 0184
ʔ 0294	
ʔ 0242	ʔ 0241
ʔ 02C0	
’ 02BC	’ 0149
” 02EE	
ᵋ 02BE	
ᵋ A723	ᵋ A722
ᵋ A78C	ᵋ A78B
ᵋ 0295	ᵋ 02E4
ᵋ 02BF	
ᵋ 02C1	
ᵋ 1D24	
ᵋ 1D25	ᵋ 1D5C
ᵋ A725	ᵋ A724
ʔ 02A1	
ᵋ 02A2	
ᵋ	

0296	
01C0	
01C1	
≠	
01C2	
!	
01C3	
©	
0297	
⊙	
0298	
w w	
02AC	
▭	
02AD	