

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.

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

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

Cells which are displayed in red are in SIL's Private Use Area and are not part of Unicode or the original document.

* 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	a FF41	ä 0363	1D41A	1D44E	1D482	1D4B6	1D4EA	1D51E	1D552	1D586
	1D5BA	1D5EE	1D622	1D656	1D68A	(a) 24D0	A 0041	A FF21	1D400	1D434
	1D468	1D49C	1D4D0	1D504	1D538	1D56C	1D5A0	1D5D4	1D608	1D63C
	1D670	(A) 24B6	ä 00AA	a 1D43	a 2090	A 1D2C	á 00E1	Á 00C1	à 00E0	À 00C0
	ă 0103	Ă 0102	ă 1EAF	Ă 1EAE	ă 1EB1	Ă 1EB0	ă 1EB5	Ă 1EB4	ă 1EB3	Ă 1EB2
	â 00E2	Â 00C2	â 1EA5	Â 1EA4	â 1EA7	Â 1EA6	â 1EAB	Â 1EAA	â 1EA9	Â 1EA8
	ă 01CE	Ă 01CD	å 00E5	Å 00C5	å 212B	å 01FB	é 01FA	ä 00E4	ää 00C4	ä 01DF
	ā 01DE	ā 00E3	Ā 00C3	ā 0227	Ā 0226	ā 01E1	ā 01E0	ā 0105	Ā 0104	ā 0101
	Ā 0100	ā 1EA3	Ā 1EA2	ā 0201	Ā 0200	ā 0203	Ā 0202	ā 1EA1	Ā 1EA0	ā 1EB7
	Ă 1EB6	ă 1EAD	Â 1EAC	ă 1E01	Â 1E00	am. 33C2	□ 2100	a/s 2101	b/s 33DF	æ 00E6
	Æ 00C6	Æ 1D2D	æ 01FD	Æ 01FC	æ 01E3	Æ 01E2	AU 3373	à 1E9A		
A 1D00										
Ā 023A										
a 1D8F										
Æ 1D01										
æ 1D02	æ 1D46									

æ F1A1 D F209 Ð F208 q F211 Q F212 @ F247 (A) F248

a 0250	a 1D44
a 0251	a 1D45
q 1D90	
d 0252	d 1D9B

c 0063	C FF43	circled c 0368	X 217D	1D41C	1D450	1D484	1D4B8	1D4EC	1D520	1D554
	1D588	1D5BC	1D5F0	1D624	1D658	1D68C	□ 24D2	C 0043	C FF23	C 216D
	C 2102	circled C 212D	1D402	1D436	1D46A	1D49E	1D4D2	1D56E	1D5A2	1D5D6
	1D60A	1D63E	1D672	C 24B8	c 1D9C	acute c 0107	circled acute C 0106	hat c 0109	hat circled acute C 0108	check c 010D
	check C 010C	check dot c 010B	check dot C 010A	check dot circled c 00E7	check dot circled C 00C7	check dot circled acute c 1E09	check dot circled acute C 1E08	□ 2105	check dot circled acute u 2106	check dot circled acute kg 33C6
	cal 3388	cc 33C4	cd 33C5	cm 339D	cm² 33A0	cm³ 33A4	Co. 33C7			
C 1D04										
circled c 023C	circled C 023B									
c 0188	C 0187									
circled c 0255	c 1D9D									

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F225

d 0064	d FF44	^o 0369	d 217E	<i>d</i> 2146	1D41D	1D451	1D485	1D4B9	1D4ED	1D521
	1D555	1D589	1D5BD	1D5F1	1D625	1D659	1D68D	<i>d</i> 24D3	D 0044	D FF24
	D 216E	□ 2145	1D403	1D437	1D46B	1D49F	1D4D3	1D507	1D53B	1D56F
	1D5A3	1D5D7	1D60B	1D63F	1D673	<i>D</i> 24B9	d 1D48	D 1D30	đ 010F	Đ 010E
	đ 1E0B	Đ 1E0A	đ 1E11	D 1E10	đ 1E0D	Đ 1E0C	đ 1E13	D 1E12	đ 1E0F	Đ 1E0E
	đ 0111	Đ 0110	đ 00F0	Đ 00D0	đ 1D9E	da 3372	đb 0238	dB 33C8	đl 3397	Đ 3377
	đ 3378	Đ 3379	dz 01F3	đz 02A3	Dz 01F2	DZ 01F1	dž 01C6	Dž 01C5	DŽ 01C4	đ 02A5
		đ 02A4								
D 1D05										
Đ 1D06										
đ 1D6D										
đ 1D81										
đ 0256	Đ 0189									
đ 0257	D 018A									
đ 1D91										
đ 018C	đ 018B									
đ 0221										

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e 0065	e FF45	€ 0364	e 212F	e 2147	1D41E	1D452	1D486	1D4EE	1D522	1D556
	1D58A	1D5BE	1D5F2	1D626	1D65A	1D68E	(e) 24D4	E 0045	E FF25	€ 2130
	1D404	1D438	1D46C	1D4D4	1D508	1D53C	1D570	1D5A4	1D5D8	1D60C
	1D640	1D674	(E) 24BA	e 1D49	e 2091	E 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	ě 1EC5	È 1EC4
	ê 1EC3	Ê 1EC2	ě 011B	Ě 011A	ë 00EB	Ë 00CB	ë 1EBD	È 1EBC	è 0117	È 0116
	ę 0229	Ę 0228	ę 1E1D	Ę 1E1C	ę 0119	Ę 0118	ę 0113	Ę 0112	ę 1E17	Ę 1E16
	è 1E15	È 1E14	ě 1EBB	Ě 1EBA	ë 0205	Ë 0204	ë 0207	È 0206	è 1EB9	È 1EB8
	ê 1EC7	Ê 1EC6	ę 1E19	Ę 1E18	ę 1E1B	Ę 1E1A	[32CD] 32CD	[32CE] 32CE		

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0259	018F	1D4A	ε
1D95			2094
025B	Σ	Σ	ε
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1D93			
0258	Θ		

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025C	1D9F
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1D94	
3	3
1D08	1D4C
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025D	
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025E	
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029A	
3	
0264	

g 0067	g FF47	g 210A		1D420	1D454	1D488	1D4F0	1D524	1D558	1D58C	1D5C0
						g 24D6	G 0047	G FF27			
				1D65C	1D690				1D406	1D43A	1D46E
				1D4A2	1D4D6	1D50A	1D53E	1D572	1D5A6	1D5DA	1D60E
	G 24BC	g 1D4D	G 1D33	g 01F5	g 01F4	g 011F	g 011E	g 011D	g 011C	g 01E7	
	g 01E6	g 0121	g 0120	g 0123	g 0122	g 1E21	g 1E20	g 33FF	g 3387	g 3393	
	GPA 33AC	Gy 33C9									
g 0261	g 1DA2										
δ 1D79											
G 0262											
g 01E5	G 01E4										
g 1D83											
g 0260	G 0193										
G 029B											
δ 1D77											
Y 0263	Y 0194	Y 02E0									
Q 01A3	Q 01A2										
h 0068	h FF48	h 036A	h 210E	1D421	1D489	1D4BD	1D4F1	1D525	1D559	1D58D	

1 0131		1D6A4
I 026A	I	1DA6
! 1D09	!	1D4E
i 0268	I	1DA4
t 1D7B	t	0197
ı 1D96		1DA7
ı 0269	ı	
t 1D7C	ı	1DA5

j 006A	j FF4A	<i>j</i> 2149	1D423	1D457	1D48B	1D4BF	1D4F3	1D527	1D55B	1D58F
	1D5C3	1D5F7	1D62B	1D65F	1D693	(j) 24D9	J 004A	T FF2A	1D409	1D43D
	1D471	1D4A5	1D4D9	1D50D	1D541	1D575	1D5A9	1D5DD	1D611	1D645
	1D679	(J) 24BF	j 02B2	J 1D36	Ĵ 0135	Ĵ 0134	Ĵ 01F0			
J 0237	1D6A5									
J 1D0A										
đ 029D	đ 1DA8									
đ 025F	đ 1DA1									
f 0284										

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1 006C	ł FF4C	ł 217C	ł 2113	ł 1D425	ł 1D459	ł 1D48D	ł 1D4C1	ł 1D4F5	ł 1D529	ł 1D55D
	ł 1D591	ł 1D5C5	ł 1D5F9	ł 1D62D	ł 1D661	ł 1D695	ł 24DB	ł 004C	ł FF2C	ł 216C
	ł 2112	ł 1D40B	ł 1D43F	ł 1D473	ł 1D4DB	ł 1D50F	ł 1D543	ł 1D577	ł 1D5AB	ł 1D5DF
	ł 1D613	ł 1D647	ł 1D67B	ł 24C1	ł 02E1	ł 1D38	ł 013A	ł 0139	ł 013E	ł 013D
	ł 013C	ł 013B	ł 1E37	ł 1E36	ł 1E39	ł 1E38	ł 1E3D	ł 1E3C	ł 1E3B	ł 1E3A
	ł 0142	ł 0141	ł 0140	ł 013F	ł 01C9	ł 01C8	ł 01C7	ł 33D0	ł 33D1	ł 33D2
	ł 02AA	ł 32CF	ł 33D3	ł 02AB						
ł 029F	ł 1DAB									
ł 1D0C										
ł 019A	ł 023D									
ł 026B										
ł 026C										
ł 1D85	ł 1DAA									
ł 026D	ł 1DA9									
ł 0234										
ł 026E										
ł 019B										

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O 006F	Ø FF4F	ø 0366	ø 2134	1D428	1D45C	1D490	1D4F8	1D52C	1D560	1D594
	1D5C8	1D5FC	1D630	1D664	1D698	24DE	Ø 004F	Ø FF2F	1D40E	1D442
	1D476	1D4AA	1D4DE	1D512	1D546	1D57A	1D5AE	1D5E2	1D616	1D64A
	1D67E	Ø 24C4	ø 00BA	o 1D52	o 2092	Ø 1D3C	ó 00F3	Ó 00D3	ò 00F2	Ò 00D2
ő 014F	Ő 014E	ô 00F4	Ô 00D4	ô 1ED1	Ó 1ED0	ò 1ED3	Ò 1ED2	õ 1ED7	Ñ 1ED6	
ô 1ED5	Ó 1ED4	ő 01D2	Õ 01D1	ö 00F6	Ö 00D6	ö 022B	Ö 022A	ö 0151	Ó 0150	
õ 00F5	Õ 00D5	ő 1E4D	Ó 1E4C	ö 1E4F	Ö 1E4E	õ 022D	Ö 022C	ò 022F	Ó 022E	
ó 0231	Ó 0230	ø 00F8	Ø 00D8	ó 01FF	Ó 01FE	q 01EB	Q 01EA	q 01ED	Ó 01EC	
ó 014D	Ó 014C	ó 1E53	Ó 1E52	ò 1E51	Ó 1E50	ó 1ECF	Ó 1ECE	ò 020D	Ó 020C	
ô 020F	Ô 020E	ø 01A1	Ø 01A0	ó 1EDB	Ó 1EDA	ò 1EDD	Ó 1EDC	ó 1EE1	Ó 1EE0	
ø 1EDF	Ø 1EDE	ø 1EE3	Ø 1EE2	ø 1ECD	Ø 1ECC	ø 1ED9	Ø 1ED8	æ 0153	Œ 0152	
	ø 3375									

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ұ 0270	Ҳ 1DAD	
ҳ 028A	Ҵ 01B1	ҵ 1DB7
Ҷ 1D7F		

V 0076	VF FF56	v 036E	V 2174	1D42F	1D463	1D497	1D4CB	1D4FF	1D533	1D567
	1D59B	1D5CF	1D603	1D637	1D66B	1D69F	(V) 24E5	V 0056	V FF36	V 2164
	1D415	1D449	1D47D	1D4B1	1D4E5	1D519	1D54D	1D581	1D5B5	1D5E9
	1D61D	1D651	1D685	(V) 24CB	v 1D5B	v 1D65	~v 1E7D	~V 1E7C	v 1E7F	V 1E7E
	33DE 33DE	vi 2175	VI 2165	vii 2176	VII 2166	viii 2177	VIII 2167			
V 1D20										
V 1D8C										
v 028B	U 01B2	v 1DB9								
Λ 028C	Λ 1DBA	Λ F219						V F25E		
W 0077	W FF57	1D430	1D464	1D498	1D4CC	1D500	1D534	1D568	1D59C	1D5D0
	1D604	1D638	1D66C	1D6A0	(W) 24E6	W 0057	W FF37	1D416	1D44A	1D47E
	1D4B2	1D4E6	1D51A	1D54E	1D582	1D5B6	1D5EA	1D61E	1D652	1D686
	(W) 24CC	w 02B7	W 1D42	W 1E83	W 1E82	W 1E81	W 1E80	W 0175	W 0174	W 1E98
	W 1E85	W 1E84	W 1E87	W 1E86	W 1E89	W 1E88	Wb 33DD			
W 1D21										
Λ 028D								W F21A	W F21B	

X 0078	✗ FF58	✗ 036F	X 2179	✗ 1D431	1D465	1D499	1D4CD	1D501	1D535	1D569
	1D59D	1D5D1	1D605	1D639	1D66D	1D6A1	✗ 24E7	X 0058	✗ FF38	X 2169
	1D417	1D44B	1D47F	1D4B3	1D4E7	1D51B	1D54F	1D583	1D5B7	1D5EB
	1D61F	1D653	1D687	✗ 24CD	x 02E3	x 2093	✗ 1E8D	✗ 1E8C	✗ 1E8B	✗ 1E8A
	xi 217A	XI 216A	xii 217B	XII 216B						
X 1D8D										
y 0079	✗ FF59	1D432	1D466	1D49A	1D4CE	1D502	1D536	1D56A	1D59E	1D5D2
	1D606	1D63A	1D66E	1D6A2	✗ 24E8	Y 0059	Y FF39	1D418	1D44C	1D480
	1D4B4	1D4E8	1D51C	1D550	1D584	1D5B8	1D5EC	1D620	1D654	1D688
	✗ 24CE	y 02B8	ý 00FD	Ŷ 00DD	ÿ 1EF3	Ŷ 1EF2	ŷ 0177	Ŷ 0176	ÿ 1E99	ÿ 00FF
	Ŷ 0178	ÿ 1EF9	Ŷ 1EF8	ÿ 1E8F	Ŷ 1E8E	ÿ 0233	Ŷ 0232	ÿ 1EF7	Ŷ 1EF6	ÿ 1EF5
		Ŷ 1EF4								
Y 028F										
y 01B4	Y 01B3									

✗ F1B4 ✗ F1CE ✗ F243 ✗ F244

Z 007A	Z FF5A	1D433	1D467	1D49B	1D4CF	1D503	1D537	1D56B	1D59F	1D5D3
	1D607	1D63B	1D66F	1D6A3	(Z) 24E9	Z 005A	Z FF3A	Z 2124	3 2128	1D419
	1D44D	1D481	1D4B5	1D4E9	1D585	1D5B9	1D5ED	1D621	1D655	1D689
	(Z) 24CF	z 1DBB	Ž 017A	Ž 0179	Ž 1E91	Ž 1E90	ž 017E	Ž 017D	ž 017C	Ž 017B
	Ž 1E93	Ž 1E92	Ž 1E95	Ž 1E94	Q 018D					
Z 1D22										
Z 01B6	Z 01B5									
Z 1D76										
Z 1D8E	Z F234									
Z 0225	Z 0224	Z F264	Z F265							
Z 0290	Z 1DBC									
Z 0291	Z 1DBD									
Z 0240										
3 0292	3 01B7	3 1DBE	3 01EF	3 01EE						
3 1D23		3 F235								
Ξ 01B9	Ξ 01B8									
Ξ 1D9A							Ξ F217			

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