1. Strings en chars

H3: Tekst gebruiken in code

Unicode

- Standaard om tekens binair voor te stellen m.b.v. 16 bit getal

- https://unicodetable.archive.thomasorlita.com/

Full Unicode Table

&#5004;	Ҍ
&#1422;	־
&#4427;	ᴫ

Click on the entity to add it to the list. Then you can copy it by clicking it in the list.

Press F3 or CTRL+F to find an entity.

30 columns

+	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
0	🔲	🔲	🔲	🔲	🔲	🔲	🔲	🔲	🔲						🔲	🔲	🔲	🔲	🔲	🔲	🔲	🔲	🔲	🔲	🔲	🔲	🔲	🔲	🔲	🔲
30	🔲	🔲		!	"	#	$	%	&	'	(	)	*	+	,	-	.	/	0	1	2	3	4	5	6	7	8	9	:	;
60	<	=	>	?	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
90	Z	[	\	]	^	_	`	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w
120	x	y	z	{	|	}	~		€	🔲	‚	ƒ	„	…	†	‡	ˆ	‰	Š	‹	Œ	🔲	Ž	🔲	🔲	‘	’	“	”	•
150	–	—	˜	™	š	›	œ	🔲	ž	Ÿ		¡	¢	£	¤	¥	¦	§	¨	©	ª	«	¬		®	¯	°	±	²	³
180	´	µ	¶	·	¸	¹	º	»	¼	½	¾	¿	À	Á	Â	Ã	Ä	Å	Æ	Ç	È	É	Ê	Ë	Ì	Í	Î	Ï	Ð	Ñ
210	Ò	Ó	Ô	Õ	Ö	×	Ø	Ù	Ú	Û	Ü	Ý	Þ	ß	à	á	â	ã	ä	å	æ	ç	è	é	ê	ë	ì	í	î	ï
240	ð	ñ	ò	ó	ô	õ	ö	÷	ø	ù	ú	û	ü	ý	þ	ÿ	Ā	ā	Ă	ă	Ą	ą	Ć	ć	Ĉ	ĉ	Ċ	ċ	Č	č
270	Ď	ď	Đ	đ	Ē	ē	Ĕ	ĕ	Ė	ė	Ę	ę	Ě	ě	Ĝ	ĝ	Ğ	ğ	Ġ	ġ	Ģ	ģ	Ĥ	ĥ	Ħ	ħ	Ĩ	ĩ	Ī	ī
300	Ĭ	ĭ	Į	į	İ	ı	IJ	ij	Ĵ	ĵ	Ķ	ķ	ĸ	Ĺ	ĺ	Ļ	ļ	Ľ	ľ	Ŀ	ŀ	Ł	ł	Ń	ń	Ņ	ņ	Ň	ň	ŉ
330	Ŋ	ŋ	Ō	ō	Ŏ	ŏ	Ő	ő	Œ	œ	Ŕ	ŕ	Ŗ	ŗ	Ř	ř	Ś	ś	Ŝ	ŝ	Ş	ş	Š	š	Ţ	ţ	Ť	ť	Ŧ	ŧ
360	Ũ	ũ	Ū	ū	Ŭ	ŭ	Ů	ů	Ű	ű	Ų	ų	Ŵ	ŵ	Ŷ	ŷ	Ÿ	Ź	ź	Ż	ż	Ž	ž	ſ	ƀ	Ɓ	Ƃ	ƃ	Ƅ	ƅ
390	Ɔ	Ƈ	ƈ	Ɖ	Ɗ	Ƌ	ƌ	ƍ	Ǝ	Ə	Ɛ	Ƒ	ƒ	Ɠ	Ɣ	ƕ	Ɩ	Ɨ	Ƙ	ƙ	ƚ	ƛ	Ɯ	Ɲ	ƞ	Ɵ	Ơ	ơ	Ƣ	ƣ
420	Ƥ	ƥ	Ʀ	Ƨ	ƨ	Σ	ƪ	ƫ	Ƭ	ƭ	Ʈ	Ư	ư	Ʊ	Ʋ	Ƴ	ƴ	Ƶ	ƶ	Ʒ	Ƹ	ƹ	ƺ	ƻ	Ƽ	ƽ	ƾ	ƿ	ǀ	ǁ
450	ǂ	!	DŽ	Dž	dž	LJ	Lj	lj	NJ	Nj	nj	Ǎ	ǎ	Ǐ	ǐ	Ǒ	ǒ	Ǔ	ǔ	Ǖ	ǖ	Ǘ	ǘ	Ǚ	ǚ	Ǜ	ǜ	ǝ	Ǟ	ǟ
480	Ǡ	ǡ	Ǣ	ǣ	Ǥ	ǥ	Ǧ	ǧ	Ǩ	ǩ	Ǫ	ǫ	Ǭ	ǭ	Ǯ	ǯ	ǰ	DZ	Dz	dz	Ǵ	ǵ	Ƕ	Ƿ	Ǹ	ǹ	Ǻ	ǻ	Ǽ	ǽ
510	Ǿ	ǿ	Ȁ	ȁ	Ȃ	ȃ	Ȅ	ȅ	Ȇ	ȇ	Ȉ	ȉ	Ȋ	ȋ	Ȍ	ȍ	Ȏ	ȏ	Ȑ	ȑ	Ȓ	ȓ	Ȕ	ȕ	Ȗ	ȗ	Ș	ș	Ț	ț
540	Ȝ	ȝ	Ȟ	ȟ	Ƞ	ȡ	Ȣ	ȣ	Ȥ	ȥ	Ȧ	ȧ	Ȩ	ȩ	Ȫ	ȫ	Ȭ	ȭ	Ȯ	ȯ	Ȱ	ȱ	Ȳ	ȳ	ȴ	ȵ	ȶ	ȷ	ȸ	ȹ
570	Ⱥ	Ȼ	ȼ	Ƚ	Ⱦ	ȿ	ɀ	Ɂ	ɂ	Ƀ	Ʉ	Ʌ	Ɇ	ɇ	Ɉ	ɉ	Ɋ	ɋ	Ɍ	ɍ	Ɏ	ɏ	ɐ	ɑ	ɒ	ɓ	ɔ	ɕ	ɖ	ɗ
600	ɘ	ə	ɚ	ɛ	ɜ	ɝ	ɞ	ɟ	ɠ	ɡ	ɢ	ɣ	ɤ	ɥ	ɦ	ɧ	ɨ	ɩ	ɪ	ɫ	ɬ	ɭ	ɮ	ɯ	ɰ	ɱ	ɲ	ɳ	ɴ	ɵ
630	ɶ	ɷ	ɸ	ɹ	ɺ	ɻ	ɼ	ɽ	ɾ	ɿ	ʀ	ʁ	ʂ	ʃ	ʄ	ʅ	ʆ	ʇ	ʈ	ʉ	ʊ	ʋ	ʌ	ʍ	ʎ	ʏ	ʐ	ʑ	ʒ	ʓ
660	ʔ	ʕ	ʖ	ʗ	ʘ	ʙ	ʚ	ʛ	ʜ	ʝ	ʞ	ʟ	ʠ	ʡ	ʢ	ʣ	ʤ	ʥ	ʦ	ʧ	ʨ	ʩ	ʪ	ʫ	ʬ	ʭ	ʮ	ʯ	ʰ	ʱ
690	ʲ	ʳ	ʴ	ʵ	ʶ	ʷ	ʸ	ʹ	ʺ	ʻ	ʼ	ʽ	ʾ	ʿ	ˀ	ˁ	˂	˃	˄	˅	ˆ	ˇ	ˈ	ˉ	ˊ	ˋ	ˌ	ˍ	ˎ	ˏ
720	ː	ˑ	˒	˓	˔	˕	˖	˗	˘	˙	˚	˛	˜	˝	˞	˟	ˠ	ˡ	ˢ	ˣ	ˤ	˥	˦	˧	˨	˩	˪	˫	ˬ	˭
750	ˮ	˯	˰	˱	˲	˳	˴	˵	˶	˷	˸	˹	˺	˻	˼	˽	˾	˿	̀	́	̂	̃	̄	̅	̆	̇	̈	̉	̊	̋
780	̌	̍	̎	̏	̐	̑	̒	̓	̔	̕	̖	̗	̘	̙	̚	̛	̜	̝	̞	̟	̠	̡	̢	̣	̤	̥	̦	̧	̨	̩
810	̪	̫	̬	̭	̮	̯	̰	̱	̲	̳	̴	̵	̶	̷	̸	̹	̺	̻	̼	̽	̾	̿	̀	́	͂	̓	̈́	ͅ	͆	͇
840	͈	͉	͊	͋	͌	͍	͎	͏	͐	͑	͒	͓	͔	͕	͖	͗	͘	͙	͚	͛	͜	͝	͞	͟	͠	͡	͢	ͣ	ͤ	ͥ
870	ͦ	ͧ	ͨ	ͩ	ͪ	ͫ	ͬ	ͭ	ͮ	ͯ	Ͱ	ͱ	Ͳ	ͳ	ʹ	͵	Ͷ	ͷ	͸	͹	ͺ	ͻ	ͼ	ͽ	;	Ϳ	🔲	🔲	🔲	🔲
900	΄	΅	Ά	·	Έ	Ή	Ί	🔲	Ό	🔲	Ύ	Ώ	ΐ	Α	Β	Γ	Δ	Ε	Ζ	Η	Θ	Ι	Κ	Λ	Μ	Ν	Ξ	Ο	Π	Ρ
930	🔲	Σ	Τ	Υ	Φ	Χ	Ψ	Ω	Ϊ	Ϋ	ά	έ	ή	ί	ΰ	α	β	γ	δ	ε	ζ	η	θ	ι	κ	λ	μ	ν	ξ	ο
960	π	ρ	ς	σ	τ	υ	φ	χ	ψ	ω	ϊ	ϋ	ό	ύ	ώ	Ϗ	ϐ	ϑ	ϒ	ϓ	ϔ	ϕ	ϖ	ϗ	Ϙ	ϙ	Ϛ	ϛ	Ϝ	ϝ
990	Ϟ	ϟ	Ϡ	ϡ	Ϣ	ϣ	Ϥ	ϥ	Ϧ	ϧ	Ϩ	ϩ	Ϫ	ϫ	Ϭ	ϭ	Ϯ	ϯ	ϰ	ϱ	ϲ	ϳ	ϴ	ϵ	϶	Ϸ	ϸ	Ϲ	Ϻ	ϻ
1020	ϼ	Ͻ	Ͼ	Ͽ	Ѐ	Ё	Ђ	Ѓ	Є	Ѕ	І	Ї	Ј	Љ	Њ	Ћ	Ќ	Ѝ	Ў	Џ	А	Б	В	Г	Д	Е	Ж	З	И	Й
1050	К	Л	М	Н	О	П	Р	С	Т	У	Ф	Х	Ц	Ч	Ш	Щ	Ъ	Ы	Ь	Э	Ю	Я	а	б	в	г	д	е	ж	з
1080	и	й	к	л	м	н	о	п	р	с	т	у	ф	х	ц	ч	ш	щ	ъ	ы	ь	э	ю	я	ѐ	ё	ђ	ѓ	є	ѕ

Select or write name of Font-Family:

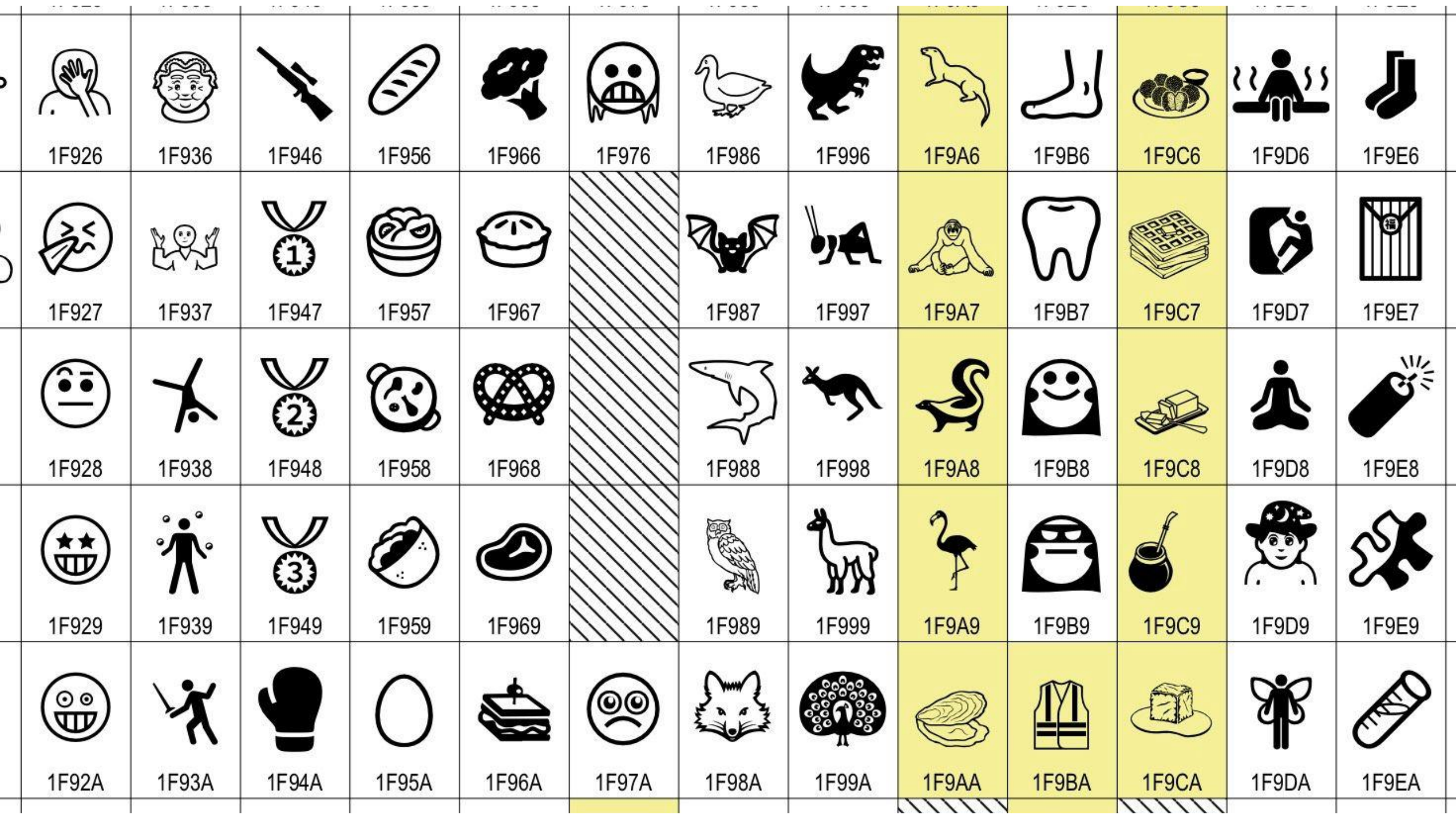
Times New Roman

Font Family

Bold Normal Italic Oblique

ASCII TABLE

Decimal	Hex	Char	Decimal	Hex	Char	Decimal	Hex	Char	Decimal	Hex	Char
0	0	[NULL]	32	20	[SPACE]	64	40	@	96	60	`
1	1	[START OF HEADING]	33	21	!	65	41	A	97	61	a
2	2	[START OF TEXT]	34	22	"	66	42	B	98	62	b
3	3	[END OF TEXT]	35	23	#	67	43	C	99	63	c
4	4	[END OF TRANSMISSION]	36	24	$	68	44	D	100	64	d
5	5	[ENQUIRY]	37	25	%	69	45	E	101	65	e
6	6	[ACKNOWLEDGE]	38	26	&	70	46	F	102	66	f
7	7	[BELL]	39	27	'	71	47	G	103	67	g
8	8	[BACKSPACE]	40	28	(	72	48	H	104	68	h
9	9	[HORIZONTAL TAB]	41	29	)	73	49	I	105	69	i
10	A	[LINE FEED]	42	2A	*	74	4A	J	106	6A	j
11	B	[VERTICAL TAB]	43	2B	+	75	4B	K	107	6B	k
12	C	[FORM FEED]	44	2C	,	76	4C	L	108	6C	l
13	D	[CARRIAGE RETURN]	45	2D	-	77	4D	M	109	6D	m
14	E	[SHIFT OUT]	46	2E	.	78	4E	N	110	6E	n
15	F	[SHIFT IN]	47	2F	/	79	4F	O	111	6F	o
16	10	[DATA LINK ESCAPE]	48	30	0	80	50	P	112	70	p
17	11	[DEVICE CONTROL 1]	49	31	1	81	51	Q	113	71	q
18	12	[DEVICE CONTROL 2]	50	32	2	82	52	R	114	72	r
19	13	[DEVICE CONTROL 3]	51	33	3	83	53	S	115	73	s
20	14	[DEVICE CONTROL 4]	52	34	4	84	54	T	116	74	t
21	15	[NEGATIVE ACKNOWLEDGE]	53	35	5	85	55	U	117	75	u
22	16	[SYNCHRONOUS IDLE]	54	36	6	86	56	V	118	76	v
23	17	[ENG OF TRANS. BLOCK]	55	37	7	87	57	W	119	77	w
24	18	[CANCEL]	56	38	8	88	58	X	120	78	x
25	19	[END OF MEDIUM]	57	39	9	89	59	Y	121	79	y
26	1A	[SUBSTITUTE]	58	3A	:	90	5A	Z	122	7A	z
27	1B	[ESCAPE]	59	3B	;	91	5B	[	123	7B	{
28	1C	[FILE SEPARATOR]	60	3C	<	92	5C	\	124	7C	|
29	1D	[GROUP SEPARATOR]	61	3D	=	93	5D	]	125	7D	}
30	1E	[RECORD SEPARATOR]	62	3E	>	94	5E	^	126	7E	~
31	1F	[UNIT SEPARATOR]	63	3F	?	95	5F	_	127	7F	[DEL]


1F926
1F936
1F946
1F956
1F966
1F976
1F986
1F996
1F9A6
1F9B6
1F9C6
1F9D6
1F9E6
1F927
1F937
1F947
1F957
1F967
1F987
1F997
1F9A7
1F9B7
1F9C7
1F9D7
1F9E7
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1F948
1F958
1F968
1F988
1F998
1F9A8
1F9B8
1F9C8
1F9D8
1F9E8
1F929
1F939
1F949
1F959
1F969
1F989
1F999
1F9A9
1F9B9
1F9C9
1F9D9
1F9E9
1F92A
1F93A
1F94A
1F95A
1F96A
1F97A
1F98A
1F99A
1F9AA
1F9BA
1F9CA
1F9DA
1F9EA

Tekst datatypes

Char

- Datatype om 1 enkel karakter (cijfer, letter, leesteken) in te bewaren
- Literal aangeduid met *apostrof* ‘

```
1  char eenLetter = 'X';
2  Console.WriteLine("eenLetter=" + eenLetter);
```

- Karakter wordt als 16bit unicode-voorstelling bewaard
  - (en dus als geheel getal)

string

- 0, 1 of meerdere char-elementen in een lijst (*array*)
- Literal aangeduid met aanhalingsteken “

```
string eenTekst = "Wat een mooi zin";
```

class System.String
Represents text as a sequence of UTF-16 code units.

```
char eenKarakter = '1';
string eenString = "1";
int eenGetal = 1;

Console.WriteLine(eenKarakter);
Console.WriteLine(eenString);
Console.WriteLine(eenGetal);
```

Demo time

- Char en char literals
- Strings