

Support for the Spark OpenType fonts

–

v. 0.04

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1 Introduction

A sparkline is a very small line chart, typically drawn without axes or coordinates. It presents the general shape of the variation (typically over time) in some measurement, such as temperature or stock market price, in a simple and highly condensed way. Sparklines are small enough to be embedded in text, or several sparklines may be grouped together as elements of a small multiple.

Whereas the typical chart is designed to show as much data as possible, and is set off from the flow of text, sparklines are intended to be succinct, memorable, and located where they are discussed. [5]

2 The fonts

The fonts are available from <https://github.com/aftertheflood/spark> and should be saved either in Library/fonts/ (MAC OSX), c:\Windows\Fonts (Windows) or /usr/local/share/fonts (Linux) or any other location where the fonts will be found by the system.

```
-rw-r--r-- 1 voss voss 24708 Sep 15 11:20 Spark - Bar - Medium.otf
-rw-r--r-- 1 voss voss 24696 Sep 15 11:20 Spark - Bar - Narrow.otf
-rw-r--r-- 1 voss voss 24680 Sep 15 11:20 Spark - Bar - Thin.otf
-rw-r--r-- 1 voss voss 22140 Sep 15 11:20 Spark - Dot-line - Medium.otf
-rw-r--r-- 1 voss voss 24616 Sep 15 11:20 Spark - Dot - Medium.otf
-rw-r--r-- 1 voss voss 24580 Sep 15 11:20 Spark - Dot - Small.otf
```

The package defines the following font macros (using symbol names):

```
\newfontface\sparkBarMedium{Spark-BarMedium}[RawFeature=+calt,\spark@DefaultFeatures]
\newfontface\sparkBarNarrow{Spark-BarNarrow}[RawFeature=+calt,\spark@DefaultFeatures]
\newfontface\sparkBarThin{Spark-BarThin}[RawFeature=+calt,\spark@DefaultFeatures]
%
\newfontface\sparkDotLine{Spark-Dot-lineMedium}[RawFeature=+calt,\spark@DefaultFeatures]
%
\newfontface\sparkDotMedium{Spark-DotMedium}[RawFeature=+calt,\spark@DefaultFeatures]
\newfontface\sparkDotSmall{Spark-DotSmall}[RawFeature=+calt,\spark@DefaultFeatures]
```

3 The macros

```
\sparkBar[<Type>][<No>]{values}[<No>]
\sparkDot[<Type>][<No>]{values}[<No>]
\sparkBar* [ <Type> ] [ <No> ] { values } [ <No> ]
\sparkDot* [ <Type> ] [ <No> ] { values } [ <No> ]
\sparkBar[<Type>]{!value,values,...,!value}
\sparkDot[<Type>]{!value,values,...,!value}
\sparkBar* [ <Type> ] { !value, values, ..., !value }
\sparkDot* [ <Type> ] { !value, values, ..., !value }
```

If [<Type>] is missing, Medium is assumed. The type is mandatory if you use the first [<No>] argument! The star versions are only valid for Lua^AT_EX where the values can be of any interval. They will be changed to the allowed interval:

- for \sparkDot[Line]: [0, 9]
- for all other: [0, 100]

Instead of using the optional arguments for printing the first and/or last value you can use the !-notation, then the first and/or last listed value are printed. There is no difference in using the optional arguments; it saves only some keystrokes if the printed values are the same as in the list.

4 Text examples

4.1 Bars


4.1.1 Bar-Medium

```
Text \sparkBar{14,95,68,9,19,41,91,1,81,97,79,45,96,76,17,65,8,92} Text\hfill
{\huge\sparkBar{14,95,68,9,19,41,91,1,81,97,79,45,96,76,17,65,8,92}}\
Text \sparkBar[Medium]{14,95,68,9,19,41,91,1,81,97,79,45,96,76,17,65,8,92} Text\
Text \sparkBar[Medium][14]{14,95,68,9,19,41,91,1,81,97,79,45,96,76,17,65,8,92}[92] Text\
Text \sparkBar[Medium]!{14,95,68,9,19,41,91,1,81,97,79,45,96,76,17,65,8,!92} Text
```

Text  Text 

Text  Text

Text 14  92 Text

Text 14  92 Text

4.1.2 Bar-Narrow

```
Text \sparkBar[Narrow]{19,32,93,4,95,46,13,23,50,86,94,68,58,41,89,57,74,8} Text\
Text \sparkBar[Narrow][19]{19,32,93,4,95,46,13,23,50,86,94,68,58,41,89,57,74,!8} Text\hfill
{\huge\sparkBar[Narrow][19]{19,32,93,4,95,46,13,23,50,86,94,68,58,41,89,57,74,!8}}\
Text \sparkBar[Narrow]!{19,32,93,4,95,46,13,23,50,86,94,68,58,41,89,57,74,!8} Text\hfill
{\huge\sparkBar[Narrow]!{19,32,93,4,95,46,13,23,50,86,94,68,58,41,89,57,74,!8}}
```

Text  Text

Text 19  8 Text 

Text 19  8 Text 

4.1.3 Bar-Thin

```
Text \sparkBar[Thin]{13,15,59,73,42,1,41,51,4,97,35,55,37,24,89,21,30,22} Text\
Text \sparkBar[Thin][13]{13,15,59,73,42,1,41,51,4,97,35,55,37,24,89,21,30,22}[22] Text\
Text \sparkBar[Thin]!{13,15,59,73,42,1,41,51,4,97,35,55,37,24,89,21,30,22} Text\
Text \sparkBar[Thin]!{13,15,59,73,42,1,41,51,4,97,35,55,37,24,89,21,30,!22} Text
```

Text  Text

Text 13  22 Text

Text 13  Text

Text 13  22 Text

4.2 Dots

4.2.1 Dot-Medium

```
Text \sparkDot{54,39,26,65,29,58,36,99,16,56,76,69,71,77,7,40,79,1} Text\hfill
{\huge\sparkDot{54,39,26,65,29,58,36,99,16,56,76,69,71,77,7,40,79,1}}\
Text \sparkDot[Medium]{54,39,26,65,29,58,36,99,16,56,76,69,71,77,7,40,79,1} Text\
Text \sparkDot[Medium]{!54,39,26,65,29,58,36,99,16,56,76,69,71,77,7,40,79,!1} Text
```

```
Text ..... Text
Text ..... Text
Text 54.....1 Text
```



4.2.2 Dot-Small

```
Text \sparkDot[Small]{1,79,88,46,54,77,91,24,70,22,27,29,40,33,31,95,26,76} Text\
Text \sparkDot[Small][1]{1,79,88,46,54,77,91,24,70,22,27,29,40,33,31,95,26,76}[76] Text\
Text \sparkDot[Small]{!1,79,88,46,54,77,91,24,70,22,27,29,40,33,31,95,26,!76} Text
```

```
Text ..... Text
Text ..... Text
Text 1.....76 Text
```

4.3 Dot-Line

```
Text \sparkDot[Line]{9,4,2,1,6,7,3,8,3,7,1,4,9,2,8,5,1,8} Text\
Text \sparkDot[Line][9]{9,4,2,1,6,7,3,8,3,7,1,4,9,2,8,5,1,8}[8] Text\hfill
{\huge\sparkDot[Line]{!9,4,2,1,6,7,3,8,3,7,1,4,9,2,8,5,1,!8}}
```

```
Text ..... Text
Text ..... Text
```



5 Examples for Lua \LaTeX

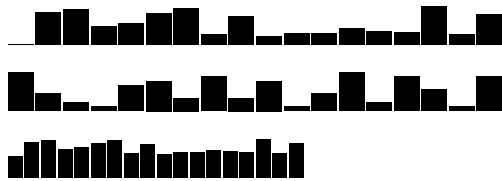
The current version of spark-otf supports only star versions for Lua \LaTeX .

5.1 Bars

```
Text \sparkBar*{1,79,88,46,54,77,91,24,70,22,27,29,40,33,31,95,26,76} Text\
Text \sparkBar*{9,4,2,1,6,7,3,8,3,7,1,4,9,2,8,5,1,8} Text\
Text \sparkBar*[Narrow]{111,179,188,146,154,177,191,124,170,122,127,129,140,133,131,195,126,176} Text\
```

```
\huge
\sparkBar*{1,79,88,46,54,77,91,24,70,22,27,29,40,33,31,95,26,76}\
\sparkBar*{9,4,2,1,6,7,3,8,3,7,1,4,9,2,8,5,1,8}\
\sparkBar*[Narrow]{111,179,188,146,154,177,191,124,170,122,127,129,140,133,131,195,126,176}
```



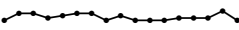
Text  Text
 Text  Text
 Text  Text

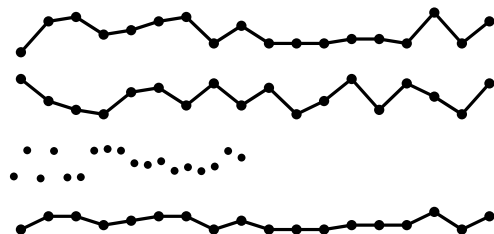


5.2 Dots

Text `\sparkDot*[Line]{1,79,88,46,54,77,91,24,70,22,27,29,40,33,31,95,26,76}` Text\
 Text `\sparkDot[Line]{9,4,2,1,6,7,3,8,3,7,1,4,9,2,8,5,1,8}` Text\
 Text `\sparkDot*[Medium][19]{19,114,12,111,16,17,113,118,113,67,61,74,39,52,38,55,111,88}[88]` Text\
 Text `\sparkDot*[Line][111]{111,179,188,146,154,177,191,124,170,122,127,129,140,133,131,195,126,176}[176]` Text

`\huge`
`\sparkDot*[Line]{1,79,88,46,54,77,91,24,70,22,27,29,40,33,31,95,26,76}`
`\sparkDot[Line]{9,4,2,1,6,7,3,8,3,7,1,4,9,2,8,5,1,8}`
`\sparkDot*[Medium][19]{19,114,12,111,16,17,113,118,113,67,61,74,39,52,38,55,111,88}[88]`
`\sparkDot*[Line][111]{111,179,188,146,154,177,191,124,170,122,127,129,140,133,131,195,126,176}[176]`

Text  Text
 Text  Text
 Text `:\dots\dots\dots` Text
 Text  Text



6 Using color

It is possible to mark single or some values with a specific color, which must be given in binary notation, e.g. `ff0000` for red (R-G-B). The macro `\setSparkColor` *should* include the (last) comma after the value:

Text `\sparkBar{14,95,68,9,19,41,\setSparkColor{ff0000}{91,}1,81,97,79,45,96,76,17,65,8,92}` Text
`\sparkBar{!14,95,68,9,19,41,\setSparkColor{ff0000}{91,1,81,97,79,}45,96,76,17,65,8,!92}` Text

Text `\sparkDot{14,95,68,9,19,41,\setSparkColor{ff0000}{91,}1,81,97,79,45,96,76,17,65,8,92}` Text
`\sparkDot{!14,95,68,9,19,41,\setSparkColor{ff0000}{91,1,81,97,79,}45,96,76,17,65,8,!92}` Text

7 The charsets

232: ÷
8182: --
8332: €
8582: ←↑→↓ ↲↳↴↵
8682: -
983032: □.....
983082:
983132:

Spark-DotMedium

32: !"#\$% '()*+,-./0123456789:;<=> CDE GHI L NO
82: STU [\] _ {}
132: ¤£ ¥ °±
182: ×
232: ÷
8182: --
8332: €
8582: ←↑→↓ ↲↳↴↵
8682: -
983032: □.....
983082:
983132:

Spark-DotSmall

32: !"#\$% '()*+,-./0123456789:;<=> CDE GHI L NO
82: STU [\] _ {}
132: ¤£ ¥ °±
182: ×
232: ÷
8182: --
8332: €
8582: ←↑→↓ ↲↳↴↵
8682: -
983032: □.....
983082:
983132:

Spark-DotLine

32: !"#\$% '()*+,-./0123456789:;<=> CDE GHI L NO
82: STU [\] _ {}
132: ¤£ ¥ °±

