strokeText.js

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What is it good for



strokeText.js is an unobtrusive javascript library working in all the major browsers - Mozilla Firefox 1.5+, Opera 9+, Safari and IE6+. The library provides cross API text stroking capability for Canvas and VML. The *(built in)* sans-serif font is also adapted for SVG to ensure an identical representation.

strokeText.js is not a standalone application. It act's as an expansion to support core text stroke capability and has to be accessed via API, which is different for Canvas and VML.

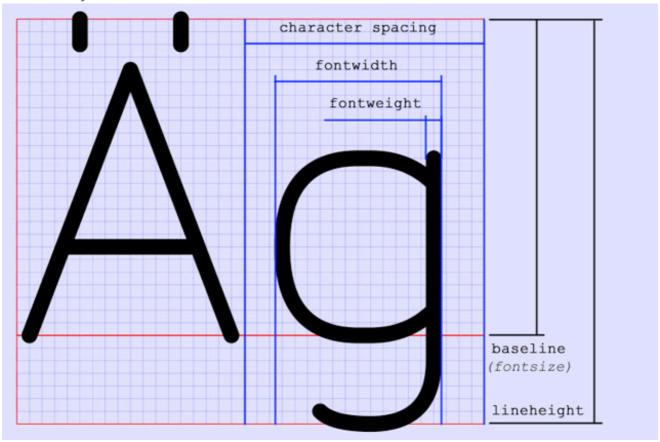
The library is based on <code>cvi_text_lib</code>.js and was original made for the <code>CVI-Projects</code> but because of the universal nature of this library (every software project using canvas, vml or svg can benefit from it) it seems to be fair to release it as <code>strokeText</code>.js to the open source community.

Main Font Features

- supports Canvas and VML (identical representation)
- font format supports moves, lines and curves (bezier & quadratic)
- font characters 30-127 and 160-255 (ISO-8859-1)
- font charset UTF-8 or ISO-8859-1 is recommended
- font type (built in) is a sans-serif multiple master single line stroke font, similar to "VAG Rounded", "DIN 17" and a few other fonts of that kind
- expandable with custom font types/faces
- font size is limited to min 1 max 99999 default is 12px
- font weight is limited to min 1 max 400 default is 100% font weight for normal text should not be more than 200% font weight for small sizes should not be less than 50%
- font width is limited to min 10 max 400 default is 100%
- font spacing is limited to min 10 max 1000 default is 100%
- color and opacity is set through context.strokeStyle
- stroke text is set through context.strokeText()
- Lib don't modify the render stack (ctx.save/ctx.restore)
- Lib don't close any pathes (ctx.closePath)
- Uncompressed lib is 32 KBytes (inc. sans-serif font)
- The inbuilt sans-serif font is also adapted for SVG

Font: Typographic Attributes

strokeText.js: Font Attributes



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Font: Characters & Sizes

strokeText.js: Font Characters (UTF-8 | ISO-8859-1)

```
!"#$%&'()*+,-./
0123456789:;<=>?

@ABCDEFGHIJKLMNO
PQRSTUVWXYZ[\]^_
'abcdefghijklmno
pqrstuvwxyz{|}~

pqrstuvwxyz{|}~
```

strokeText.js: Font Sizes (28 | 24 | 20 | 16 | 12 | 11 | 10 | 9 | 8 | 7 px)

A brown fox jumps over the lazy sheep!

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Font: Weight, Width & Space

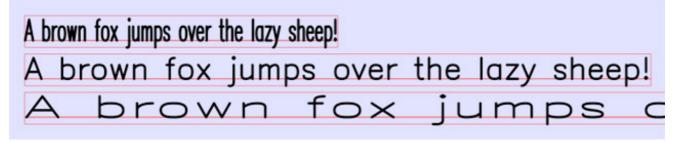
strokeText.js: Font Weight (50% | 100% | 200%)

A brown fox jumps over the lazy sheep!

A brown fox jumps over the lazy sheep!

A brown fox jumps over the lazy sheep!

strokeText.js: Font Width (50% | 100% | 200%)



strokeText.js: Font Spacing (200% | 100% | 50%)

A brown fox jumps over the lazy s A brown fox jumps over the lazy sheep! A brown fox jumps over the lazy sheep!

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Font: Faces & Effects

strokeText.js: Multiple Master (through different weight/width/space)



strokeText.js: Special Effects (through multiple strokes)



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Library API (canvas)

Init Function:

BOOLEAN = check_textRenderContext(context)

webKit (Safari) patch function:

set textRenderContext(context)

Main Function:

context.strokeText(text, x, y, fontsize, fontweight, fontwidth, charspace, fonttype)

fontsize == baseline == textheight / 32 * 25

Helper Function:

draw boundingBox(context, x, y, baseline, textheight, textwidth)

```
Utility Functions:
STRING = get_widthText(string, textwidth, fontsize, fontwidth, charspace, fonttype)
FLOAT = get_textWidth(string, fontsize, fontwidth, charspace, fonttype)
FLOAT = get_textHeight(fontsize)
FLOAT = get_baseLine(fontsize)
Library API (vml)
```

```
Init Function:
BOOLEAN = check_strokeTextCapability()
Main Function:
STRING = get_strokeText(text, x, y, fontsize, fontweight, fontwidth,
charspace, fonttype, color, opacity, rotation, id)
fontsize == baseline == textheight / 32 * 25
Helper Function:
STRING = get_boundingBox(x, y, baseline, textheight, textwidth,
linewidth, color, opacity, rotation, id)
Utility Functions:
STRING = get_widthText(string, textwidth, fontsize, fontwidth,
charspace, fonttype)
FLOAT = get textWidth(string, fontsize, fontwidth, charspace,
fonttype)
FLOAT = get_textHeight(fontsize)
FLOAT = get baseLine(fontsize)
```

Howto Setup