

Twine .twn embroidery file spec

Header

Version	Float	Format Version (Default is 1.0)
Name	50 Bytes	The name of the design or other labeling information as UTF-8 text.
Thumbnail Size	Uint32	The embedded preview image size in byte length as a 32 bit unsigned integer.
Brush Segments Count	Uint32	The total number of brush segments as a 32 bit unsigned integer.
Copies	Uint32	Number of copies. (The number 0 will be treated as 1, so the default is 0)
Spooling Method	Byte	0 - Spool per segment. (default) 1 - Spool per copy. 2 - Single spool for all segments.
Media ID	Uint32	A unique code representing an optional media ID from Twine's recommended media list
Embroidery Format	3 Bytes	3 ASCII characters representing the embedded embroidery file extension (e.g dst, pes).
Embroidery File Size	Uint32	The byte array length of the embedded embroidery file.

Design Thumbnail Image

Image Bytes	Byte[]	Array of bytes representing the design preview image in PNG format (transparent background). The size of the PNG byte array must be defined in the header. Recommended image width is 1280 pixels while maintaining aspect ratio.
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Brush Segments

Brush Segments	BrushSegment[]	Array of Brush Segment. The number of brush segments must be defined in the header.
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Embedded Embroidery File

File Bytes	Byte[]	Byte array representing the standard embroidery file which can be extracted and inserted into an embroidery machine.
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The "Brush Segment" structure supports both solid and gradient segments. Solid segments are defined using a "Brush Segment" with a single "Brush Stop" with zero offset.

Brush Segment

Length	Float	Required thread length in centimeters.
Brush Stop Count	Uint32	Number of brush stops.
Brush Stops	BrushStop[]	Array of brush stops.

Brush Stop

R	byte	The RGB red component.
G	byte	The RGB green component.
B	byte	The RGB blue component.
Offset	Float	The Brush stop offset position within the parent brush length in percentage (0 - 1).