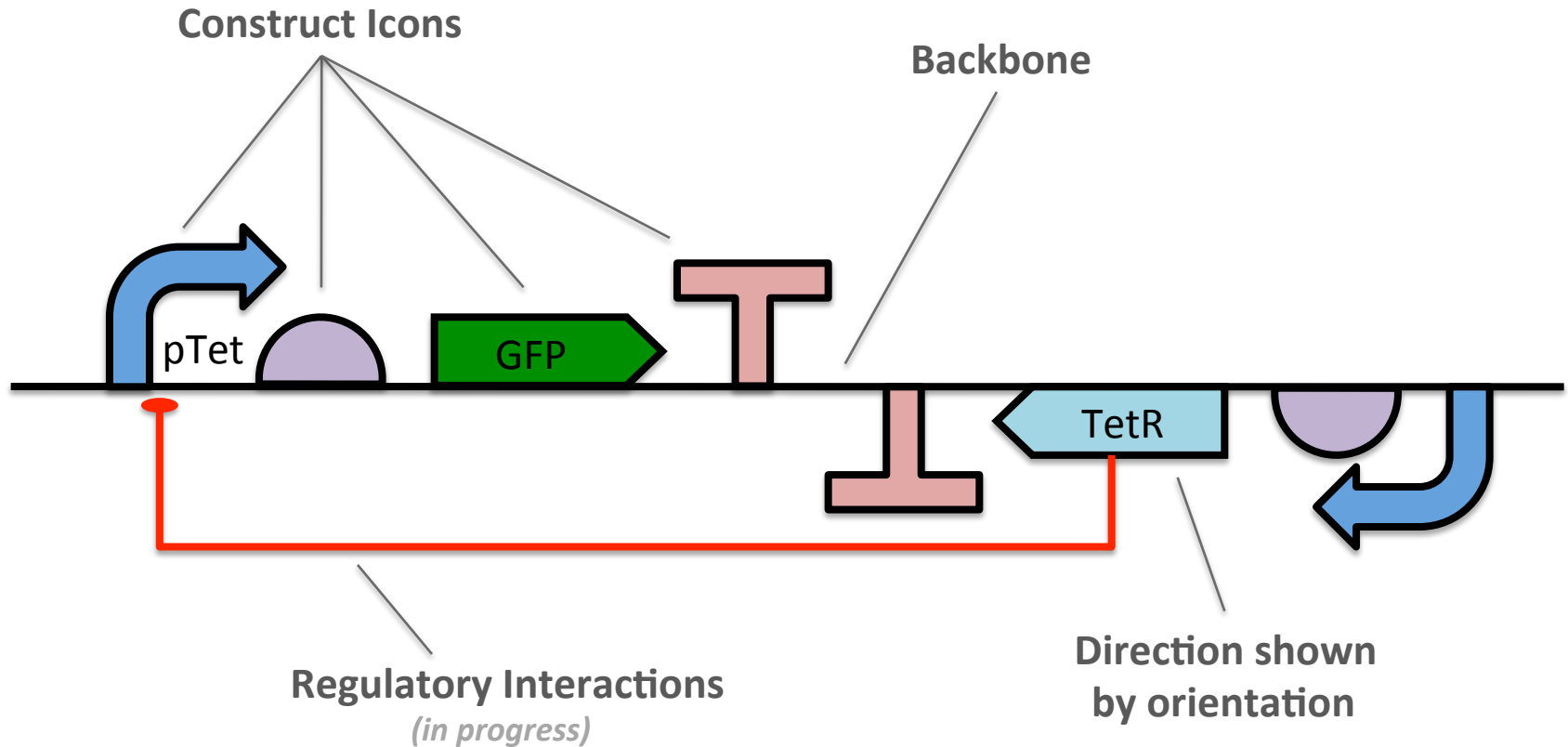


Introduction to SBOL Visual

SBOL Visual Community
Last revised: January 2016






















Elements of SBOL Visual:



Synthetic Biology Open Language - Visual
Community standards in development since 2008
SBOL Visual 1.0: BBF RFC #93 [doi: 1721.1/78249](https://doi.org/10.17211/78249)

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Commons Attribution 4.0 International License.

Current SBOLv Symbols:

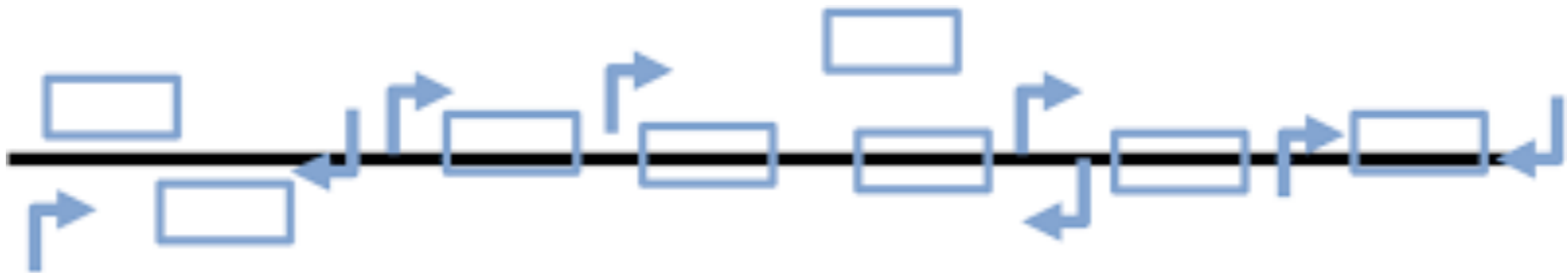
 promoter	 primer binding site
 cds	 restriction site
 ribosome entry site	 blunt restriction site
 terminator	 5' sticky restriction site
 operator	 3' sticky restriction site
 insulator	 5' overhang
 ribonuclease site	 3' overhang
 rna stability element	 assembly scar
 protease site	 signature
 protein stability element	 user defined
 origin of replication	

New symbols added by community consensus



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Is anything prohibited?

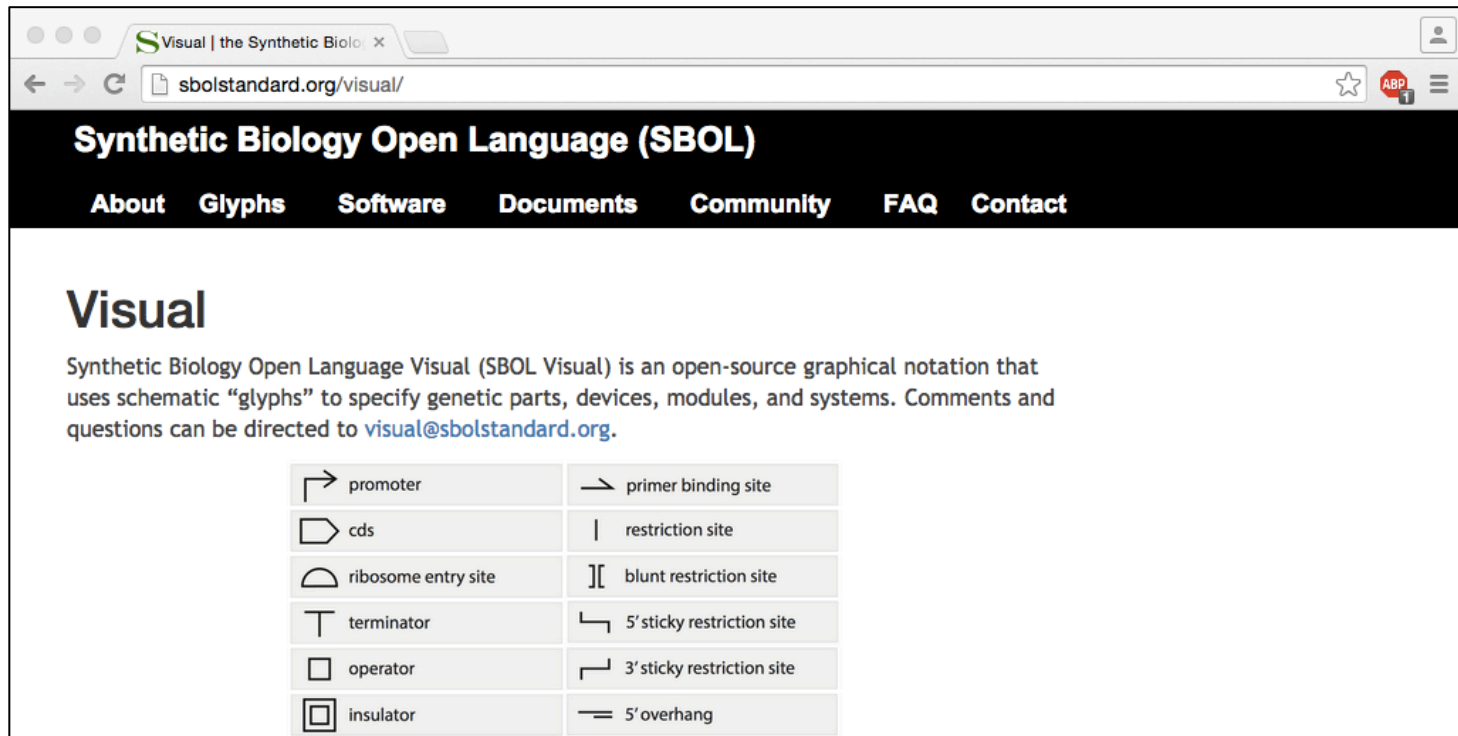














Yes.

Making SBOL Visual Diagrams

- Using your favorite graphics editor:
 - Many icons can be drawn directly
 - Icons available from: <http://sbolstandard.org/visual/>
- Specialized visualization tools:
 - Pigeon: <http://pigeoncad.org/>
 - VisBOL: <http://visbol.org/design/>
 - GraphViz: <http://www.graphviz.org/>
 - DNAPlotLib: <https://github.com/VoigtLab/dnaplotlib>

- Use the symbols in your papers & talks
- Contribute opinions, use cases, new symbols

A screenshot of a web browser displaying the SBOL Visual website. The browser's address bar shows 'sbolstandard.org/visual/'. The page has a black header with the title 'Synthetic Biology Open Language (SBOL)' and a navigation menu with links: 'About', 'Glyphs', 'Software', 'Documents', 'Community', 'FAQ', and 'Contact'. Below the header, the page is titled 'Visual' and contains a paragraph explaining that SBOL Visual is an open-source graphical notation using schematic 'glyphs' for genetic parts. Below the text is a table of glyphs.

 promoter	 primer binding site
 cds	 restriction site
 ribosome entry site	 blunt restriction site
 terminator	 5' sticky restriction site
 operator	 3' sticky restriction site
 insulator	 5' overhang

- Community is open for anyone to join