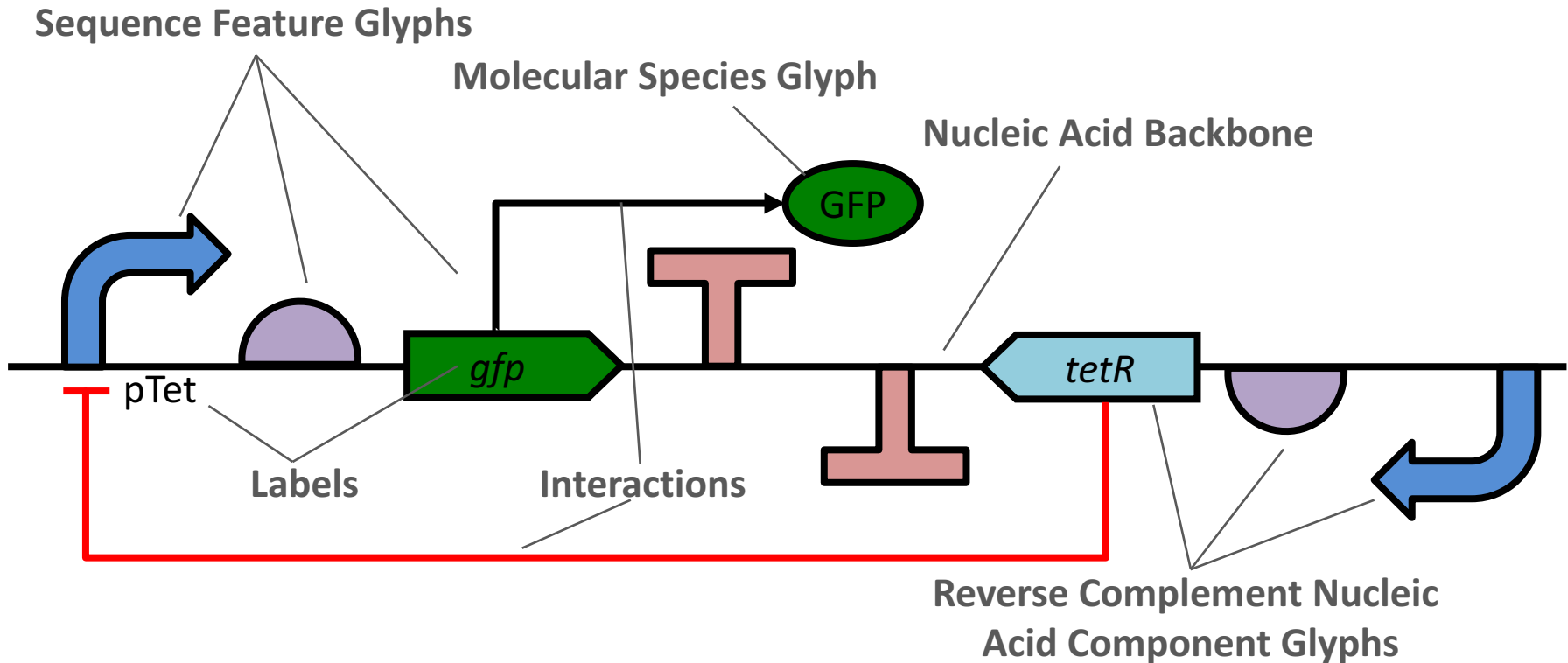


Quick Introduction to SBOL Visual 2.0

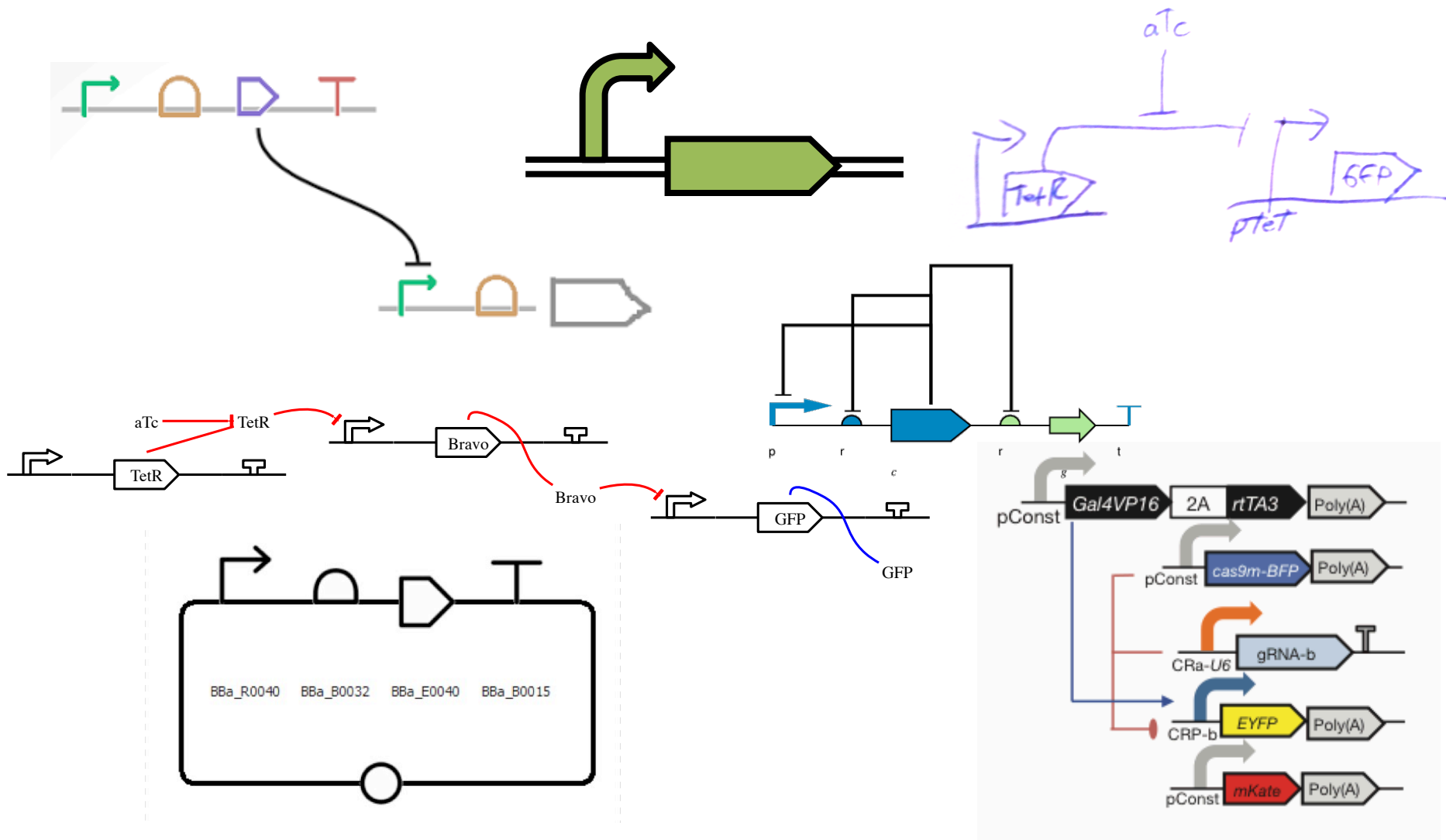
January 2018

Diagram Elements



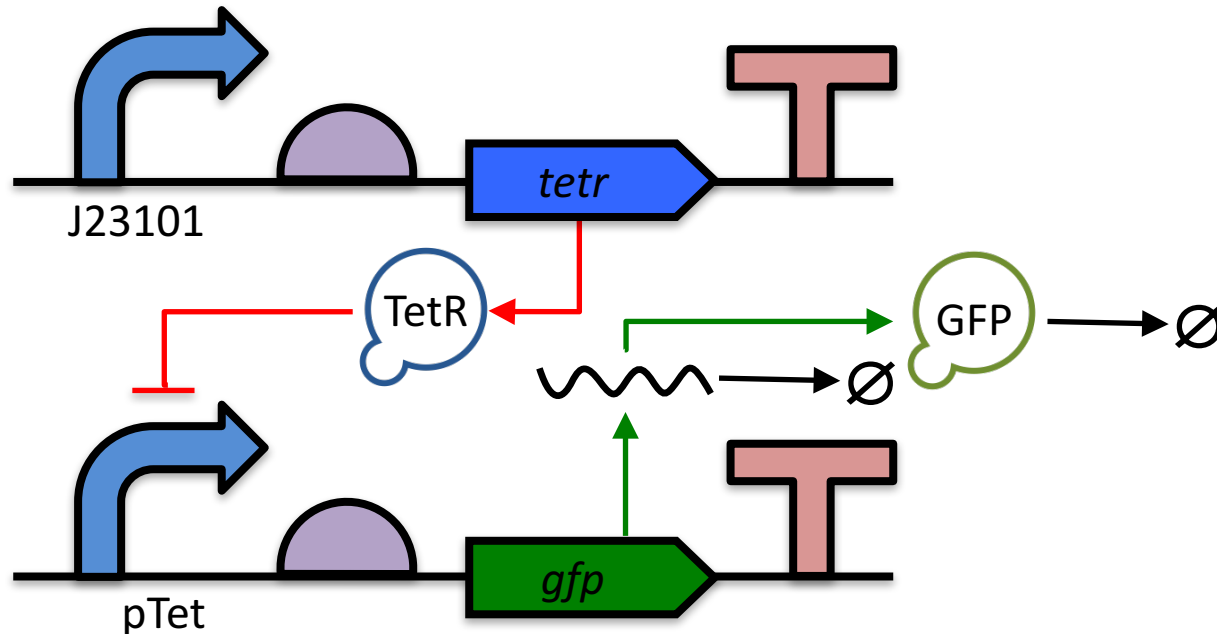
Grey text and lines (including this) are annotations

Flexibility of Style



Color, Text, Scaling, Strands, Styling: all your choice

Complex Example Diagram



The top functional unit produces the TetR protein constitutively, under control of promoter J23101. TetR represses the pTet promoter, which is regulating production of GFP. The diagram of GFP production explicitly includes the intermediate mRNA and the degradation of both the mRNA and protein products.

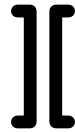
Nucleic Acid Glyphs



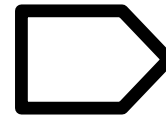
Aptamer



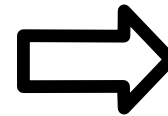
Assembly Scar



Blunt Restriction Site

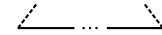


recommended



alternate

CDS



Composite



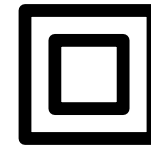
Engineered Region



Sticky End



Sticky Restriction Site



Insulator



No Glyph



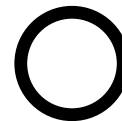
Non-Coding RNA



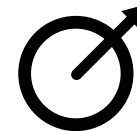
Omitted Detail



Operator



ORI



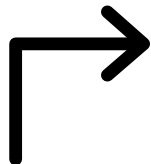
ORI-T



Poly-A Site



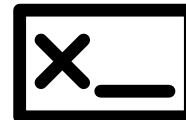
Primer Binding Site



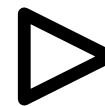
Promoter



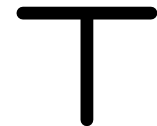
Ribosome Entry Site



Signature

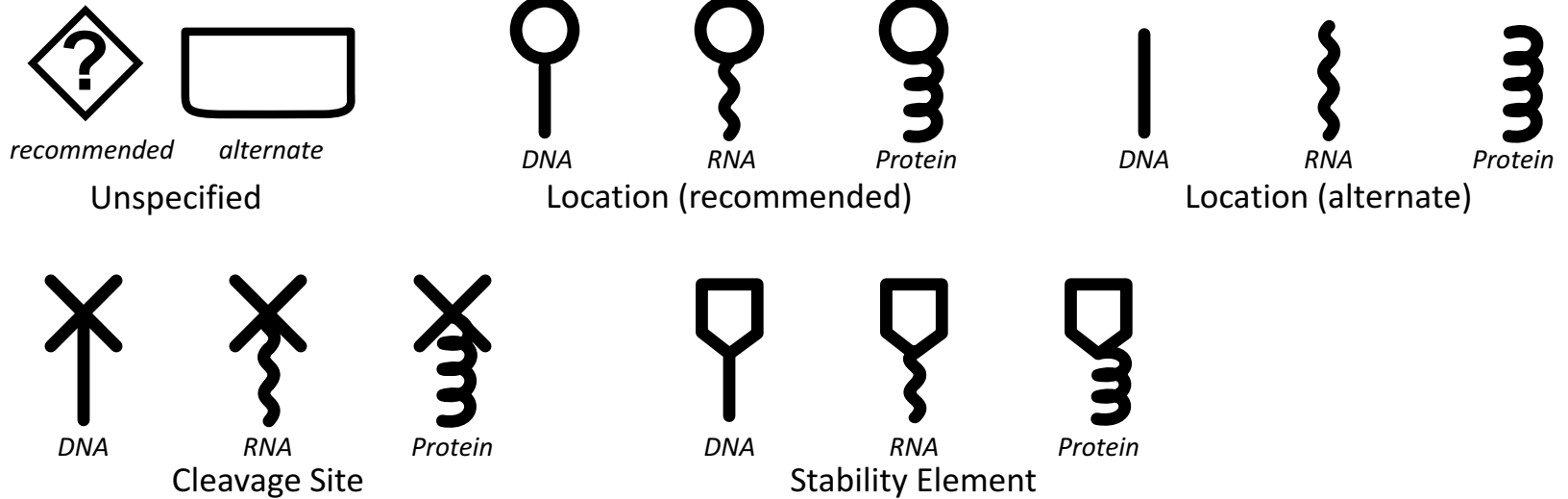


Recombination Site



Terminator

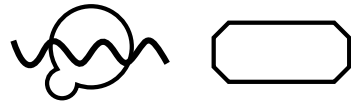
Nucleic Acid Glyphs



Molecular Species & Interaction Glyphs



Molecular Species



superpose glyphs *alternate*
Complex



recommended *alternate*
Macromolecule



No Glyph Nucleic Acid (Generic)



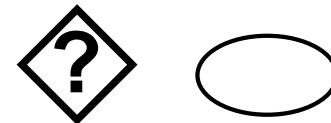
Nucleic Acid (1-Strand)



Nucleic Acid (2-Strand)

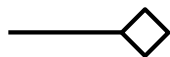


Small Molecule

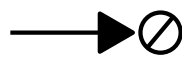


recommended *alternate*
Unspecified

Interaction



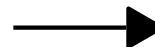
Control



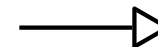
Degradation



Inhibition



Process



Stimulation

Making SBOL Visual Diagrams

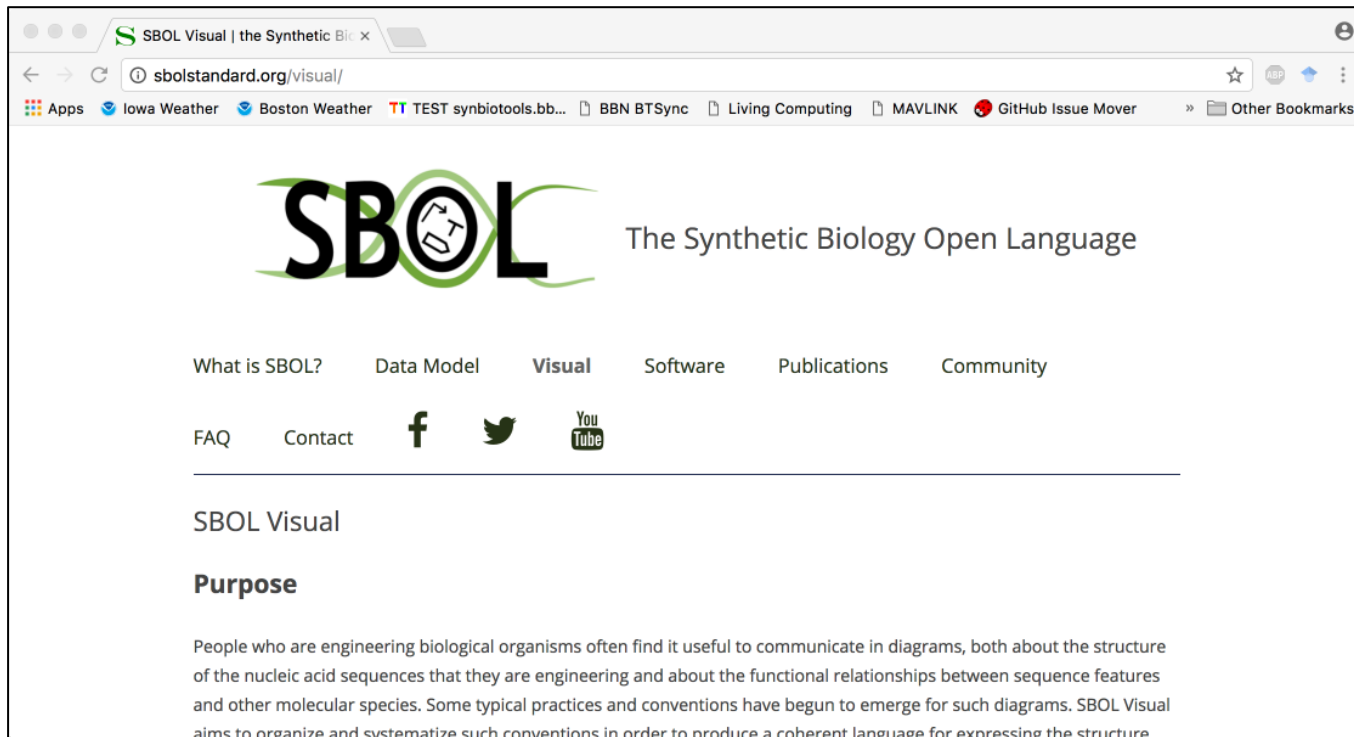


- Using your favorite graphics editor:
 - Many glyphs can be drawn directly
 - Glyph set available: <http://sbolstandard.org/visual/>
- Specialized visualization tools:
 - Pigeon: <http://pigeoncad.org/>
 - VisBOL: <http://visbol.org/design/>
 - GraphViz: <http://www.graphviz.org/>
 - DNAPlotLib: <https://github.com/VoigtLab/dnaplotlib>

http://sbolstandard.org



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



- Community is open for anyone to join