

Vis Pitch

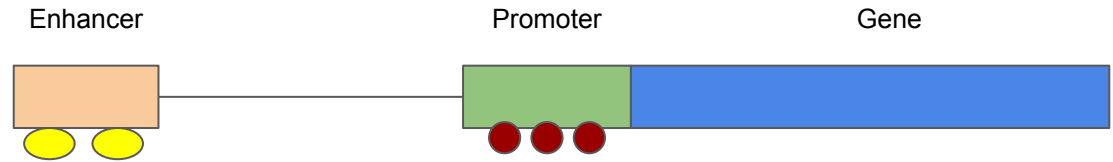
Visualization Gene Regulation

Background

- People are trying to understand gene regulation

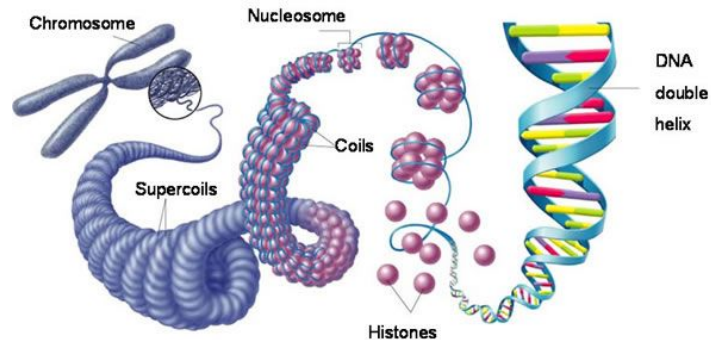
- DNA has genes

- Disease risks
- Eye colours



- Genes are regulated via:

- Promoters
 - Methylation = Inhibition
- Enhancers
 - Acetylation = Activation
- Accessibility of Genes





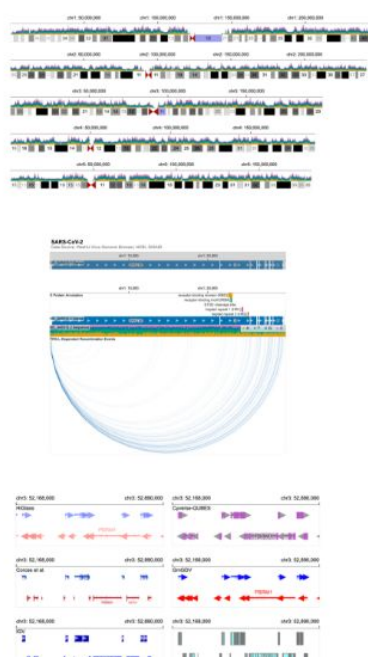
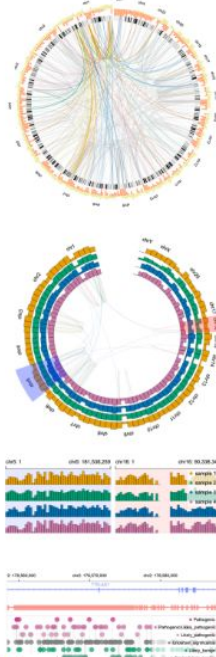
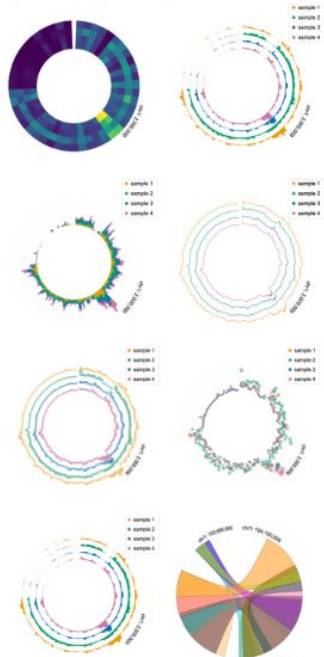
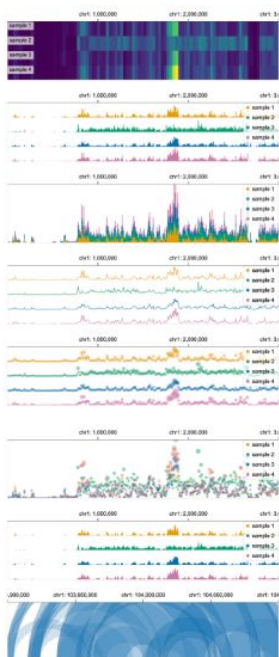
A Grammar-based Toolkit for Scalable and Interactive Genomics Data Visualization

Gosling.js: JavaScript library for Gosling

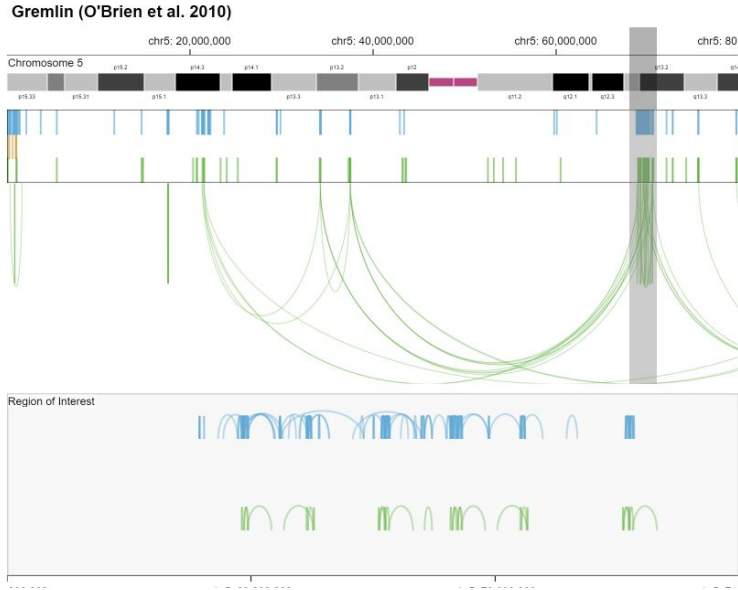
Gos: Python package for Gosling

Using Gosling in your **React** App

Using Gosling in your **Streamlit** App



Pitch



- Main idea: Visualize regions of gene activity
 - Humans/Mice/Whatever
- Data to Visualize
 - Along the DNA...
 - DNA Methylation
 - Enhancer Acetylation
 - DNA Accessibility
- Not worried about finding these datasets