

Segway for ENCODE4 - code documentation

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This is the code documentation for the ENCODE Segway project. Each section is a component of the project, with a diagram showing the input and output files, the code files and the process.

- Code is in the Github repository:

<https://github.com/marjanfarahbod/SegwayClustering>

- List of the project compartments:

1. Segway train and run on Cedar
2. Segway interpretation, train and test
3. The transcriptomic segway-chrom comparison analyses
4. The Enhancer analyses for Segway and Chrom
5. Obtaining data from ENCODE API, Chrom and RNAseq
6. The GWAS wing. No code on my part, just the analyses documentation Other prep, meta
7. Miscellaneous

1 Segway train and run on Cedar

Figure 1

Folder: SegwayTrainAndRun

2 Segway interpretation; train, test, apply and plots

Figure 2

Folder: SegwayInterpretation

3 The transcriptomic plots and analyses

Figure 3

Folder: transcriptomicAnalysis

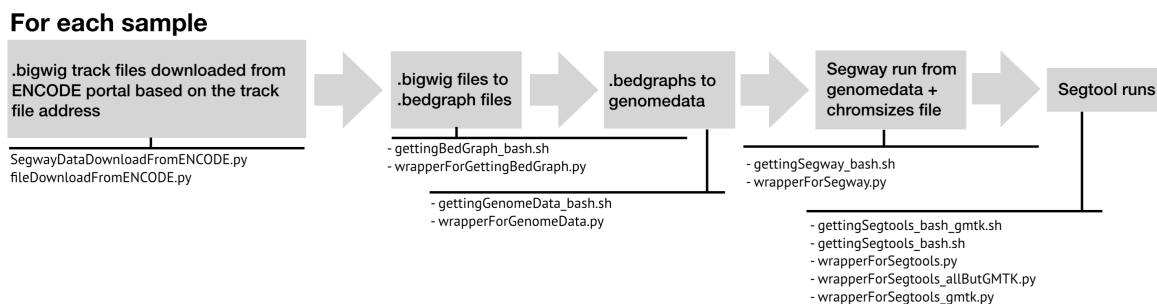


Figure 1: Segway train and run on Cedar

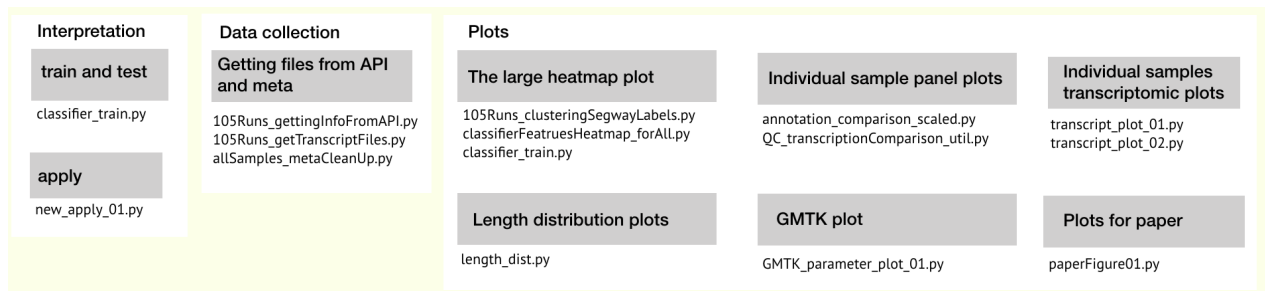


Figure 2: Segway interpretation; train, test, apply and plots

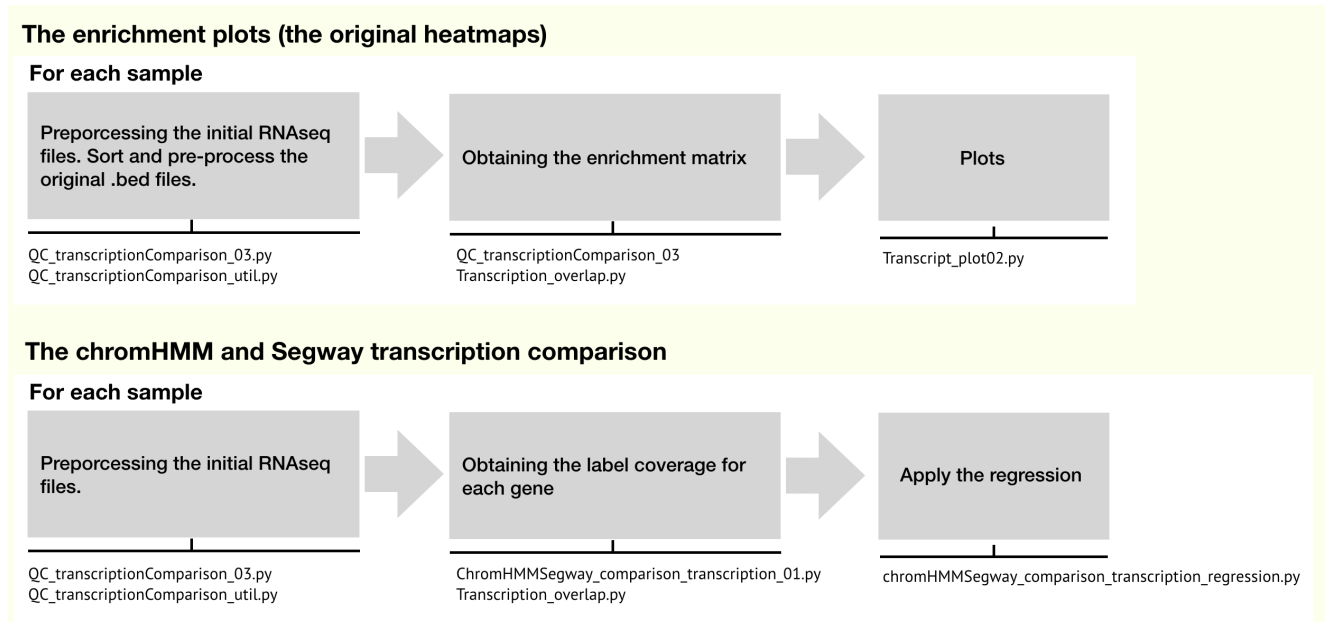


Figure 3: The transcriptomic plots and analyses

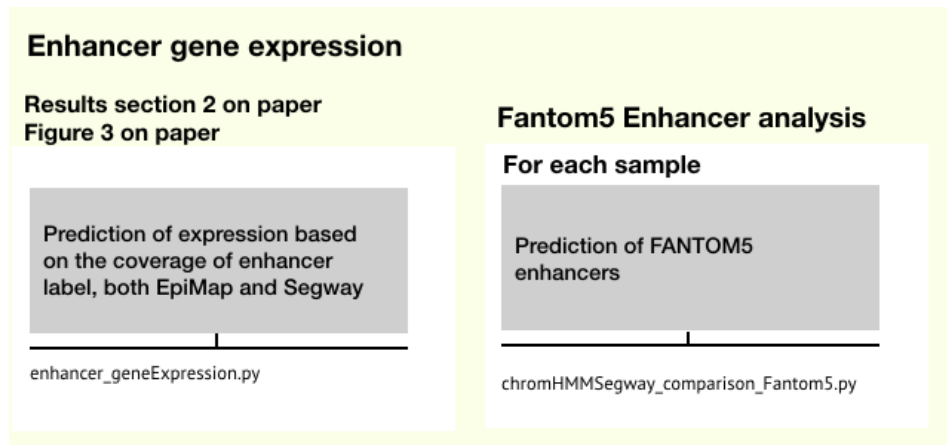


Figure 4: Enhancer analyses

4 The Enhancer analyses for Segway and Chrom

Figure 4

Folder: enhancerAnalysis

5 Obtaining data from ENCODE API, Chrom and RNAseq

Folder: Miscellaneuou

- get_data.py
- get_the_runID_accession_matching_from_portal.py

6 The GWAS wing

No code in this repository.

7 Specifically for the ENCODE paper

Folder: paper

- paperFigure01.py
- paperFigure02.py
- paper_supp_plots.py