

TF analysis

A simple approach

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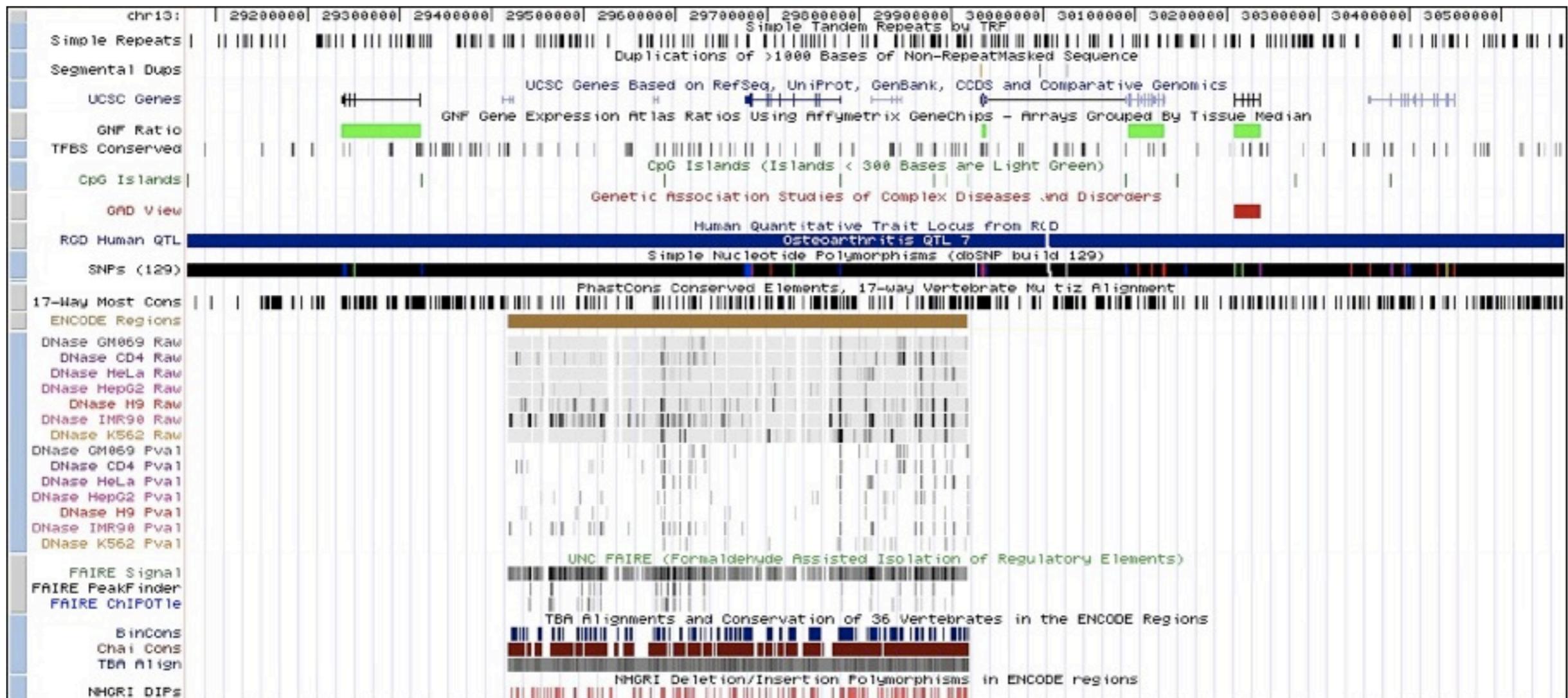
State-of-the-art TFBS analysis

- One tool per scenario
- Different methodology (strengths / parameters ..)
- Various interfaces (command-line / webpage ..)
- Varying interpretation (results)

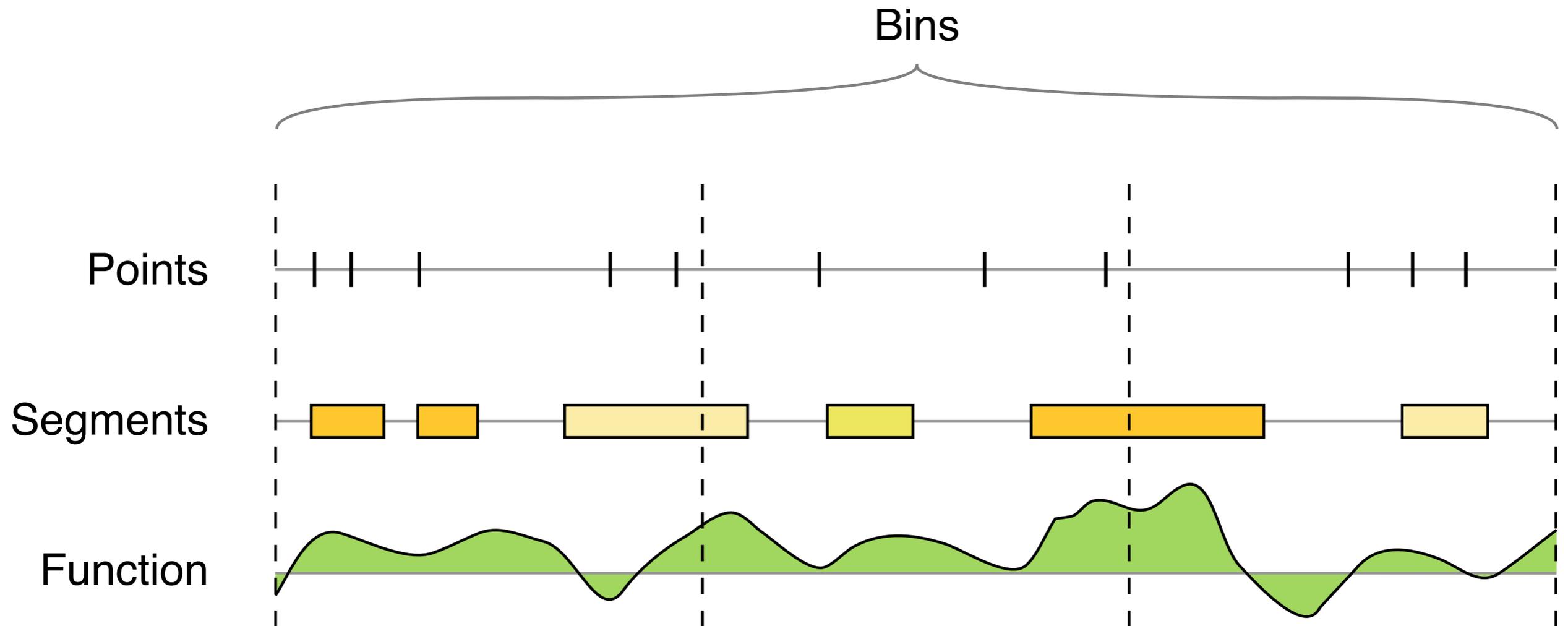
A simple idea

- Rely on static, genome-wide data (predictions)
- Easy to understand methodology
- Similar method across scenarios
- Plain data extraction or statistical inference
- (sacrifice some accuracy)

Genomic datasets (UCSC)

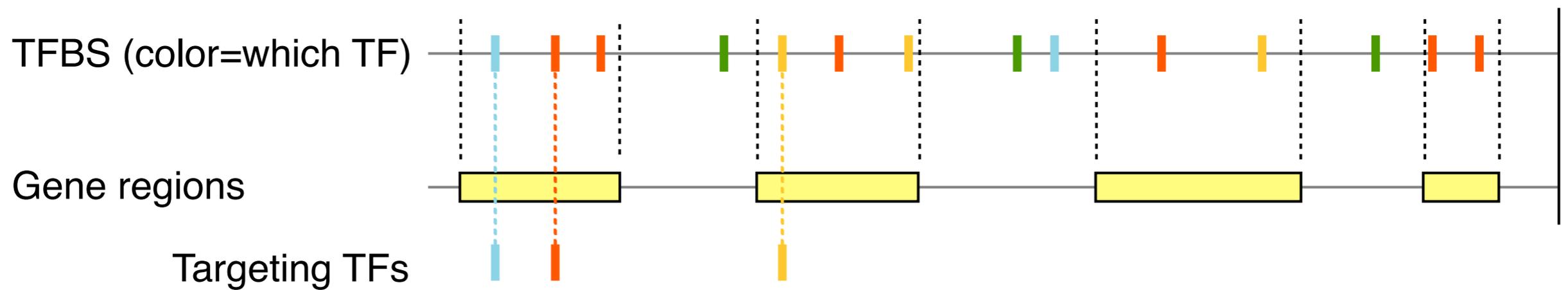


Track Formats (Hyperbrowser)

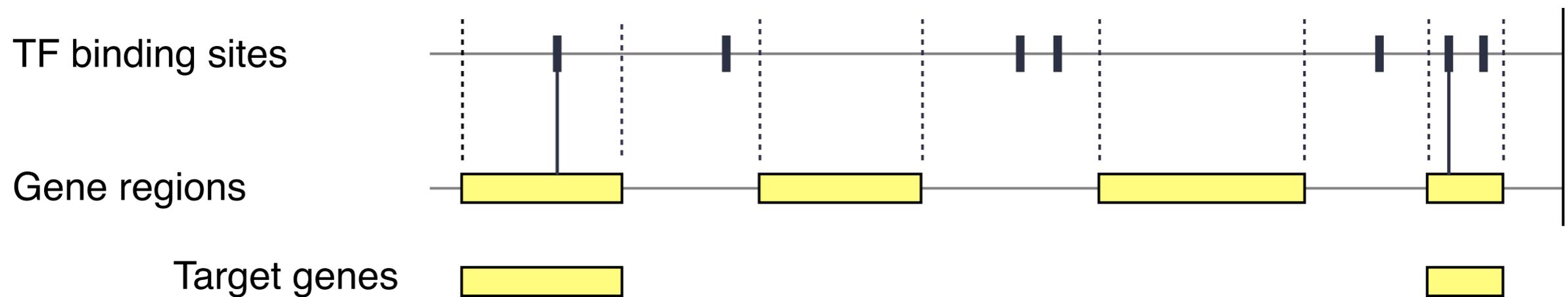


- 5 Main data types (UP, MP, US, MS, F)
- Mark can be a number, a character, a category, a vector
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Finding regulators, the simple way



Finding target genes, the simple way



In practice

- The Genomic Hyperbrowser
 - hyperbrowser.uio.no
 - (insilico.titan.uio.no:8099)
- Transcription factor analysis ->
 - Find TF gene targets
 - Find TFs regulating gene
 - Find TFs regulating gene set