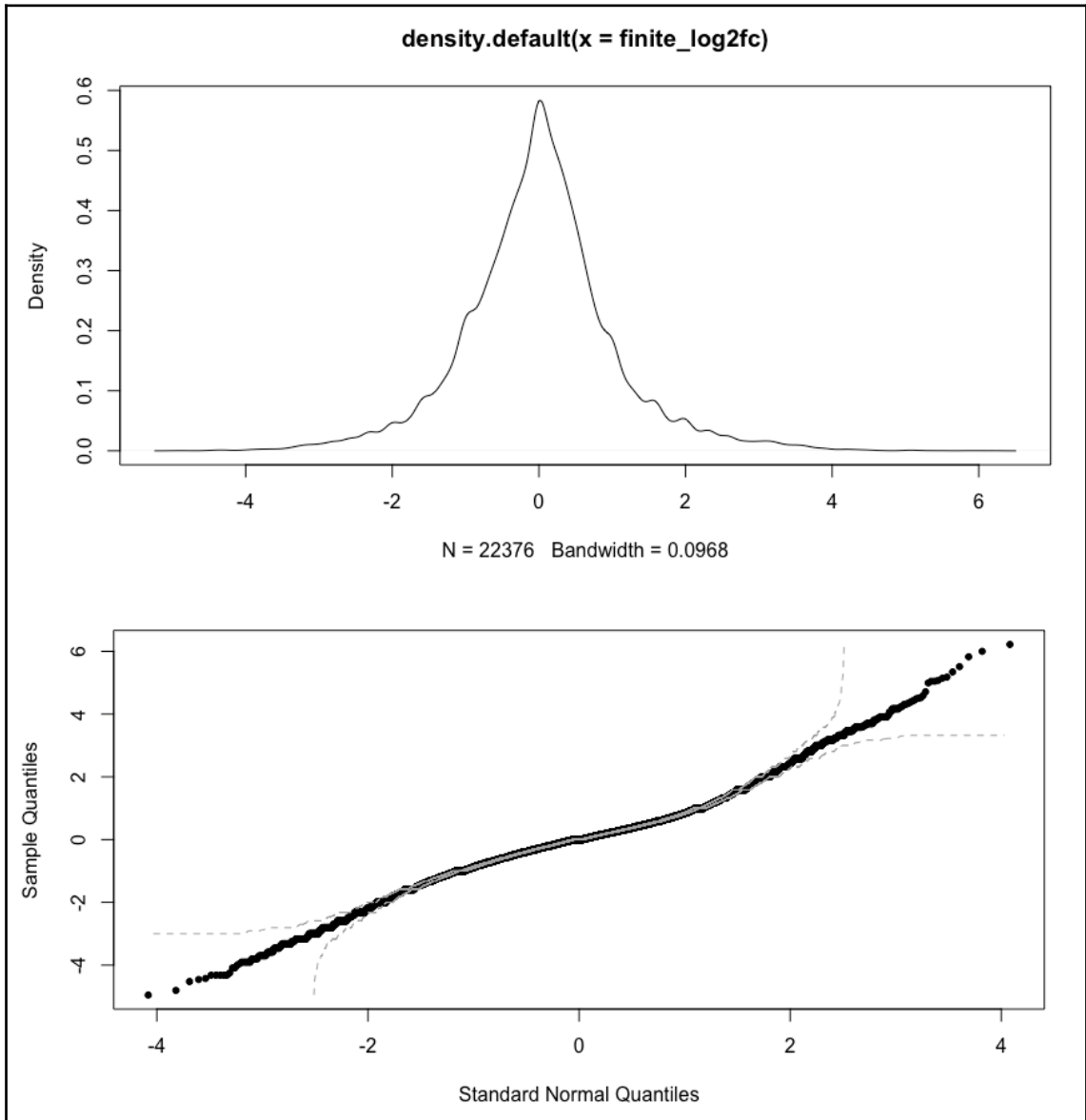
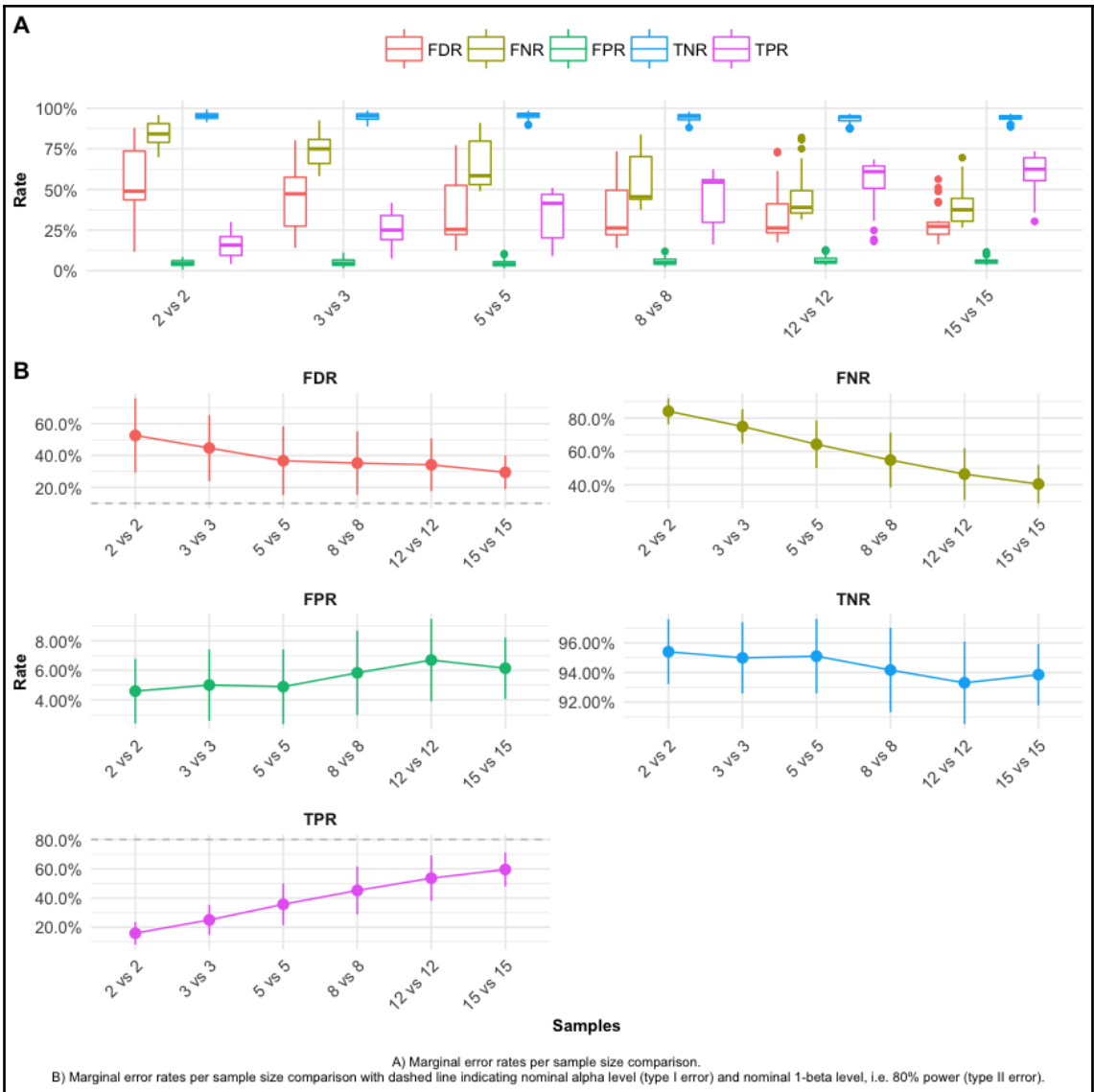
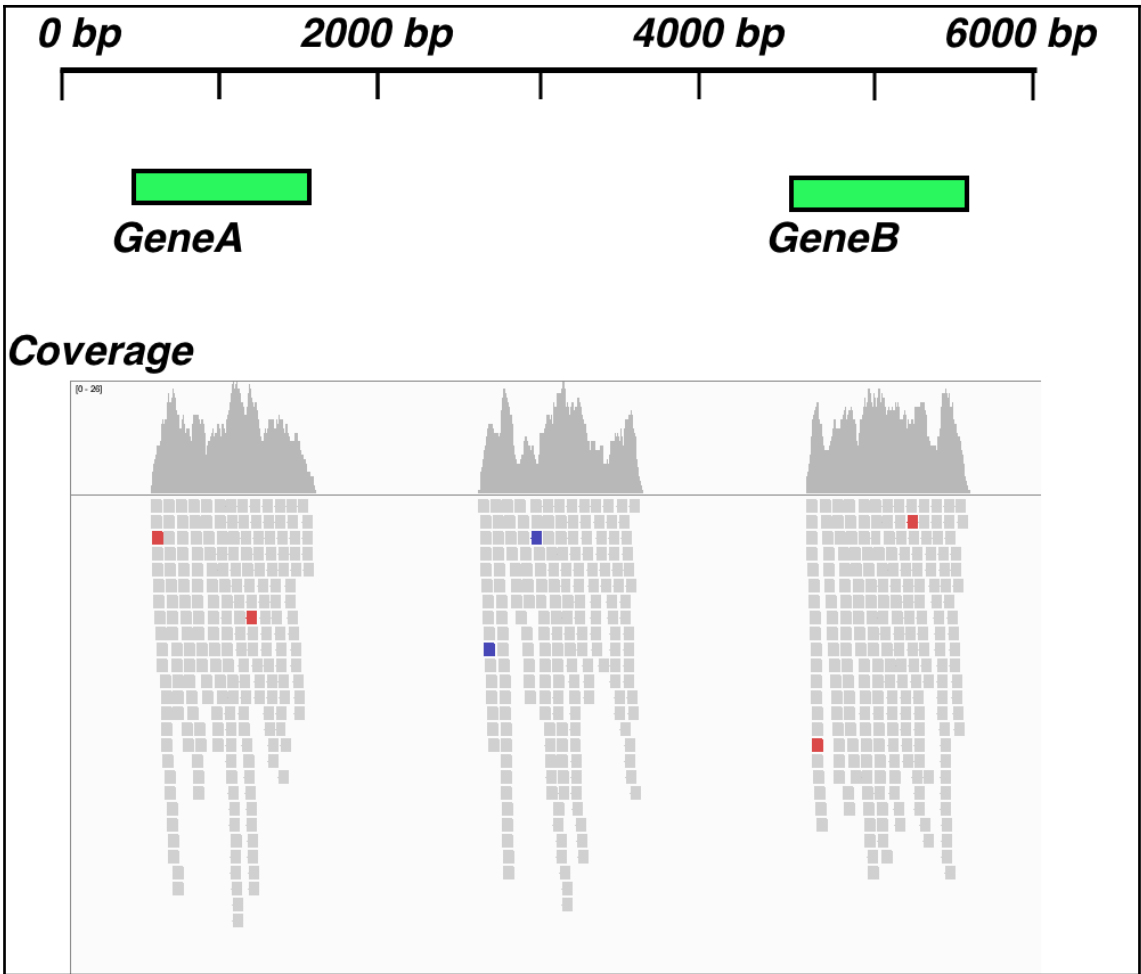
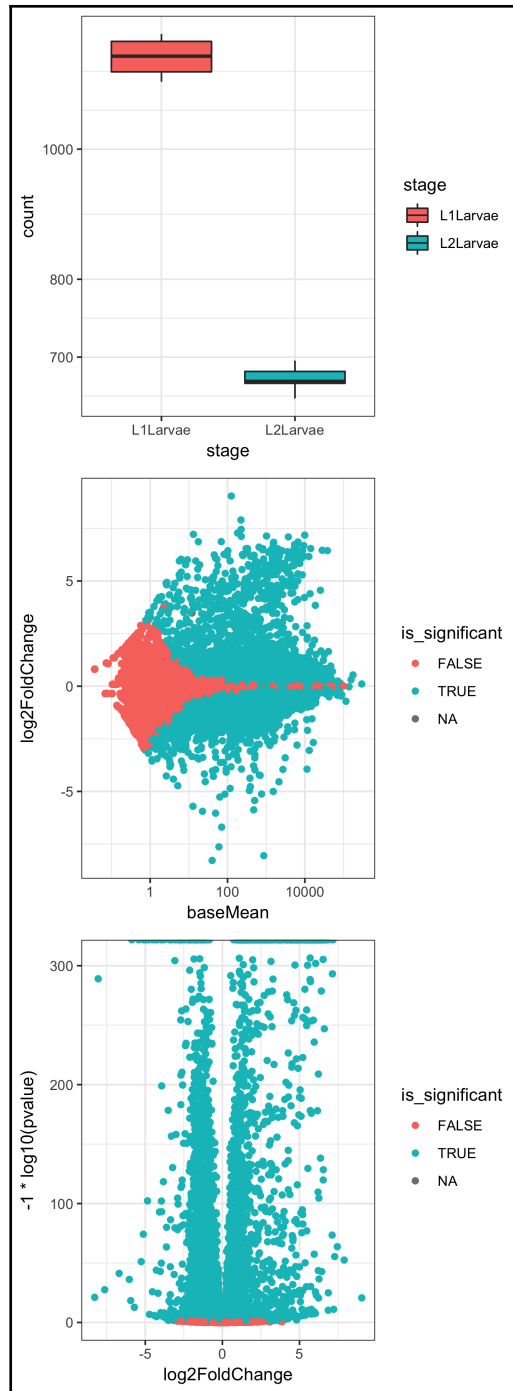


Chapter 1: Performing Quantitative RNAseq

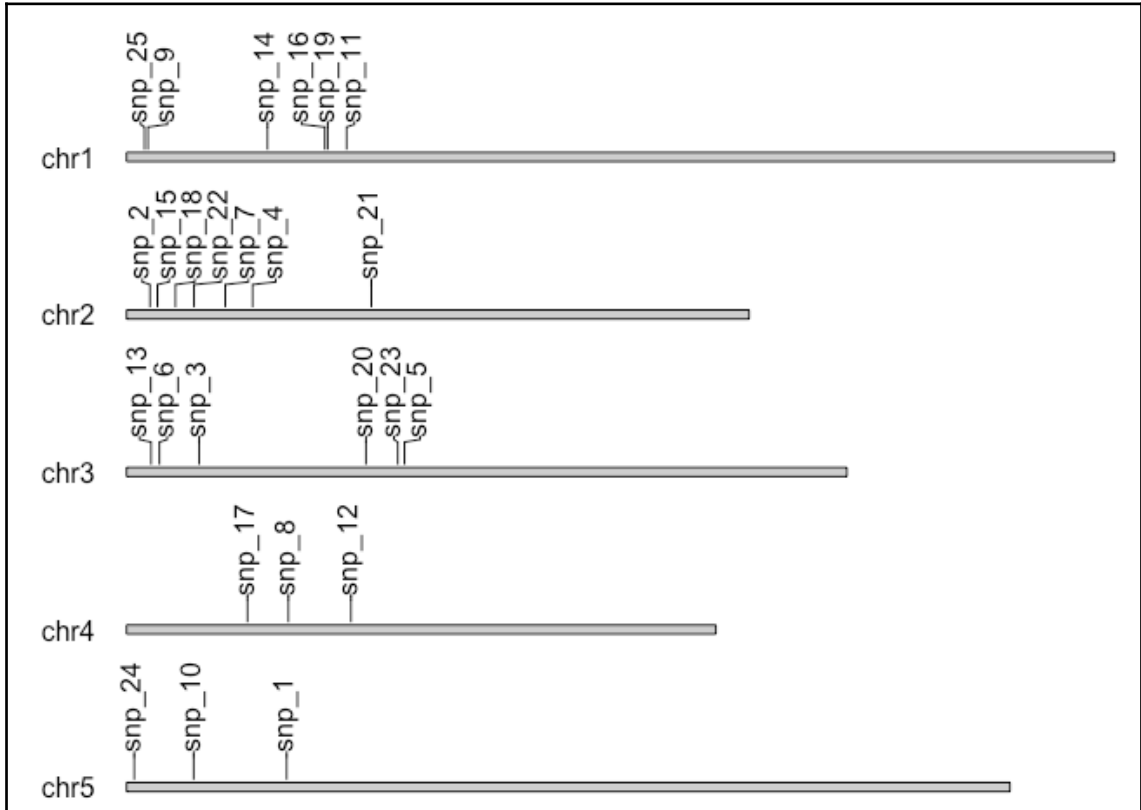


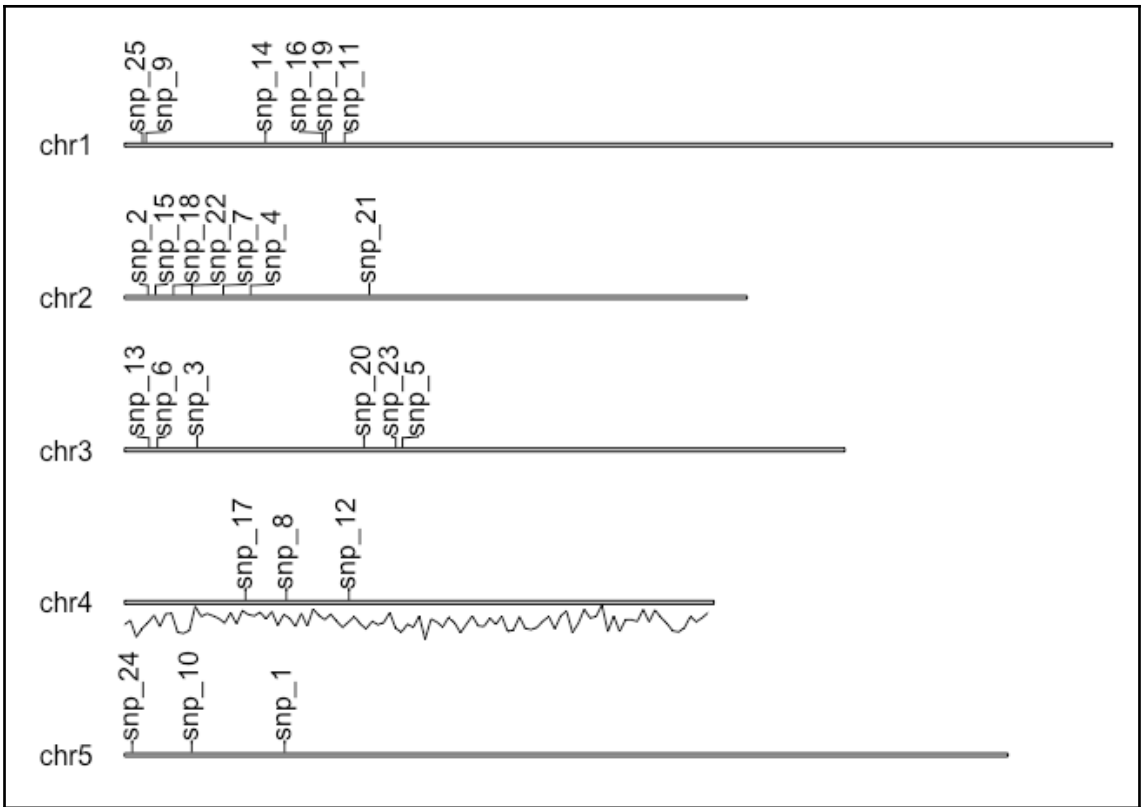


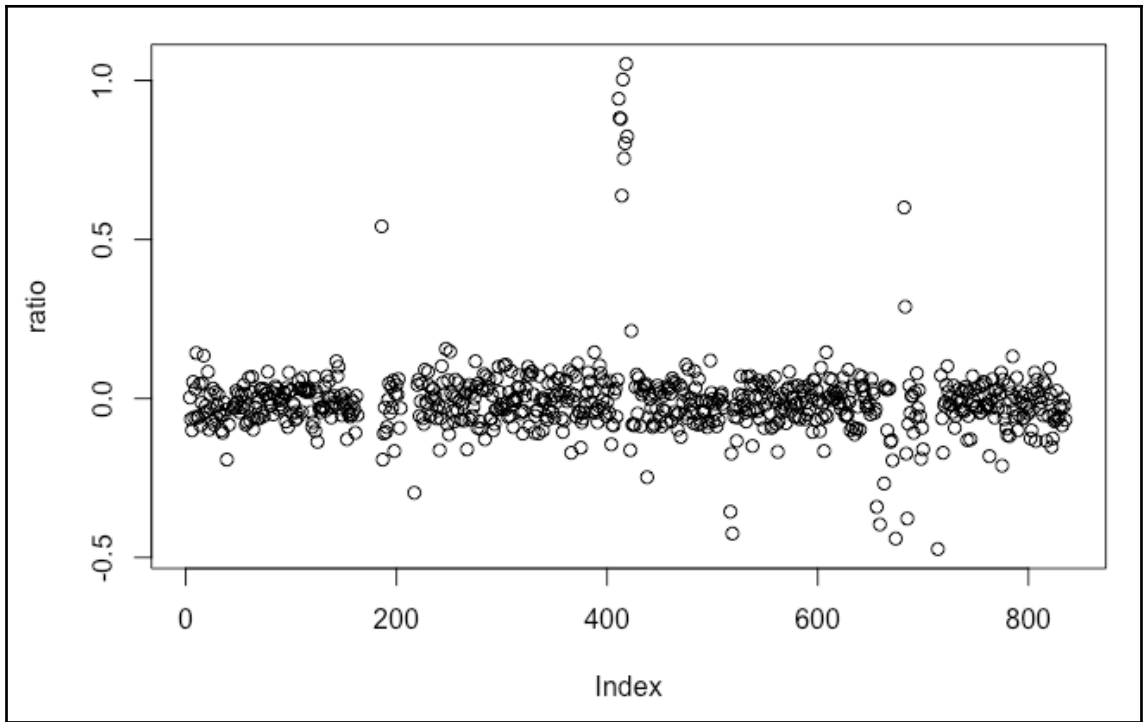


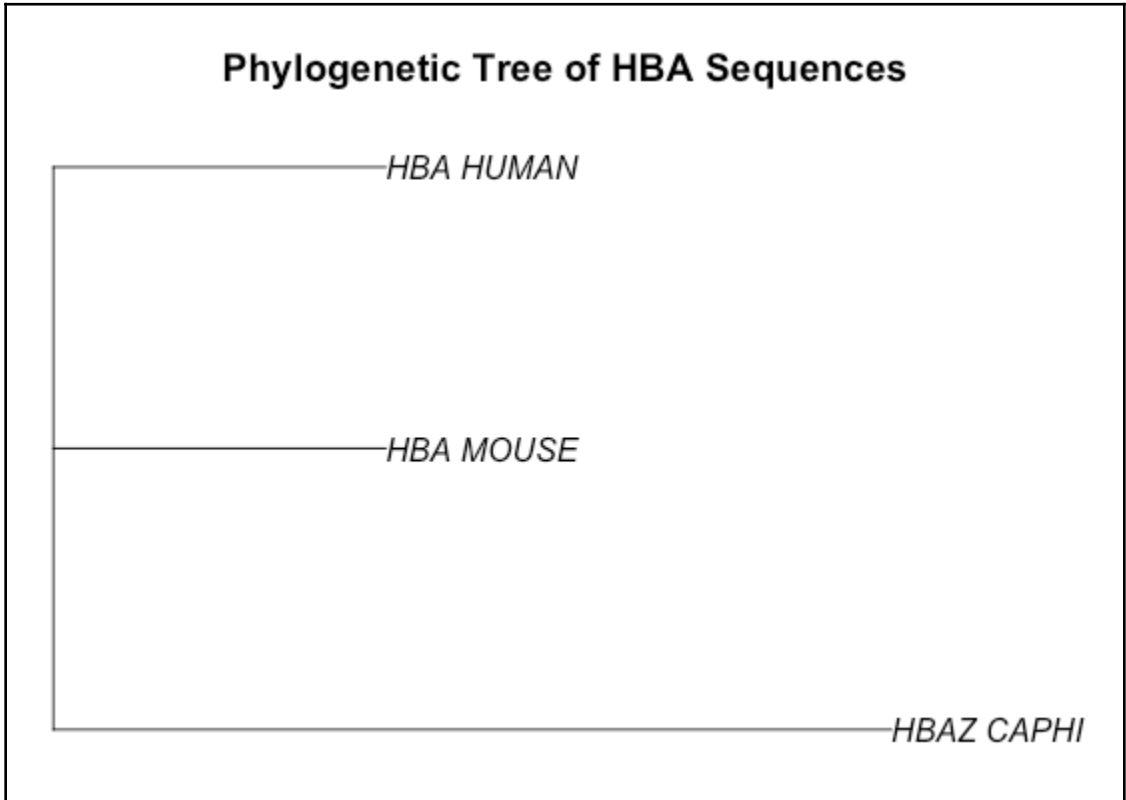
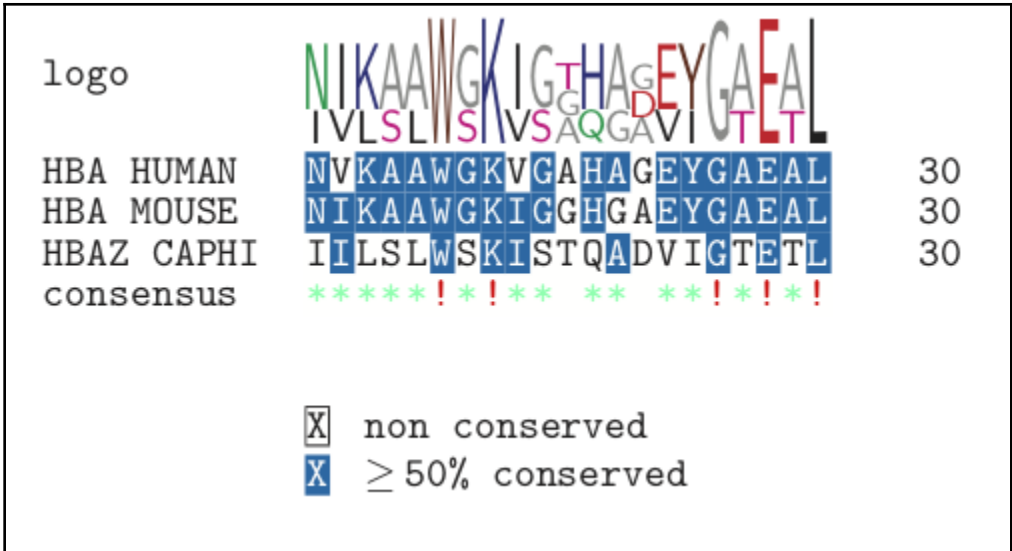


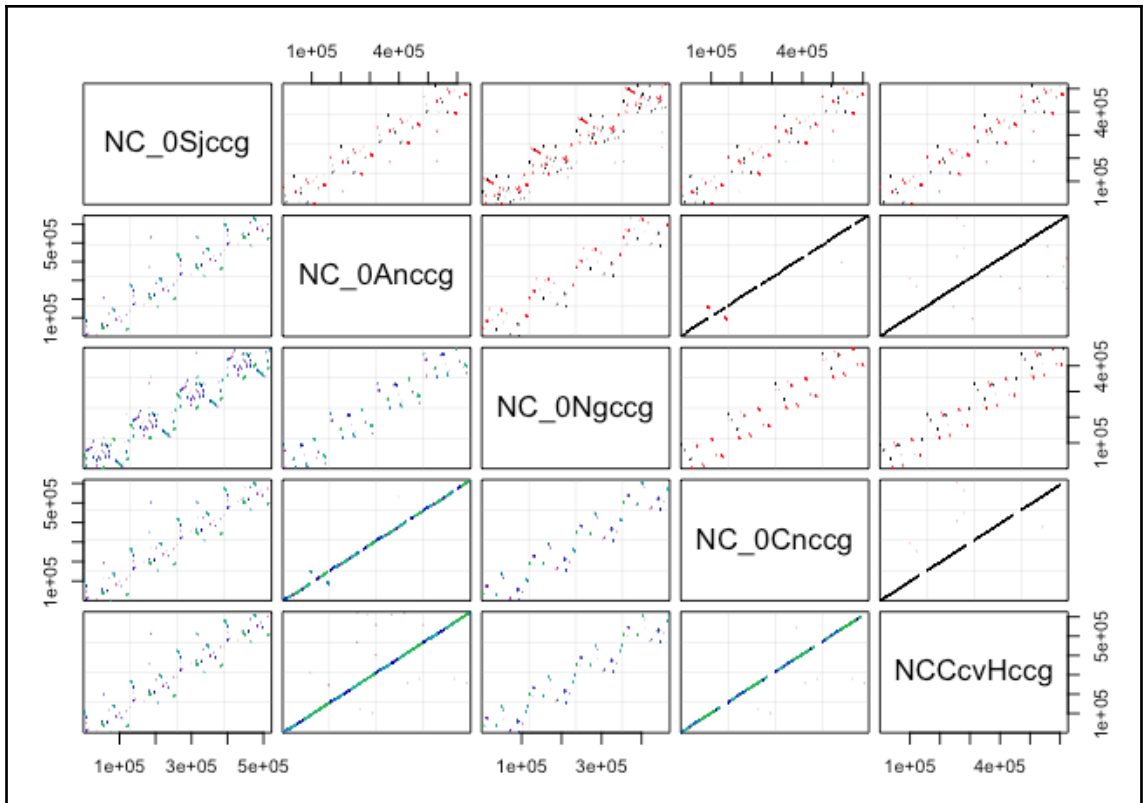
Chapter 2: Finding Genetic Variants with HTS Data

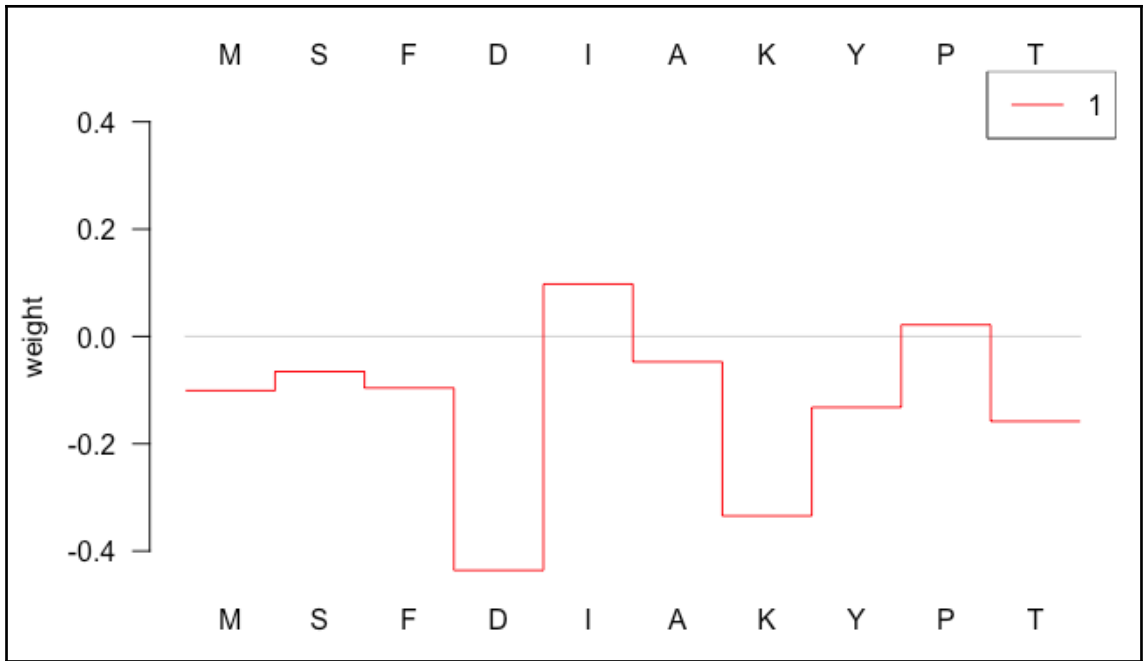












PyMOL


```

GL_VERSION: 2.1 INTEL-12.8.38
No License File - For Evaluation Only (30 days remaining)
Detected 4 CPU cores. Enabled multithreaded rendering.
PyMOL>load /var/folders/22/kjdvv_k14cj1m6hq5h1527qw8__Sgg/T//RtmptNwEap/pdbs/1xwc.pdb
CmdLoad: PDB-string loaded into object "1xwc", state 1.
PyMOL>load /var/folders/22/kjdvv_k14cj1m6hq5h1527qw8__Sgg/T//RtmptNwEap/pdbs/3trx.pdb
CmdLoad: PDB-string loaded into object "3trx", state 1.
PyMOL>as cartoon
PyMOL>zoom
Executive: Colored 1629 atoms and 1 object.
Executive: Colored 863 atoms and 1 object.
PyMOL>

```

PyMOL> |

No License File - For Evaluation Only (30 days remaining)



all	A	S	H	L	C
1xwc	A	S	H	L	C
3trx	A	S	H	L	C

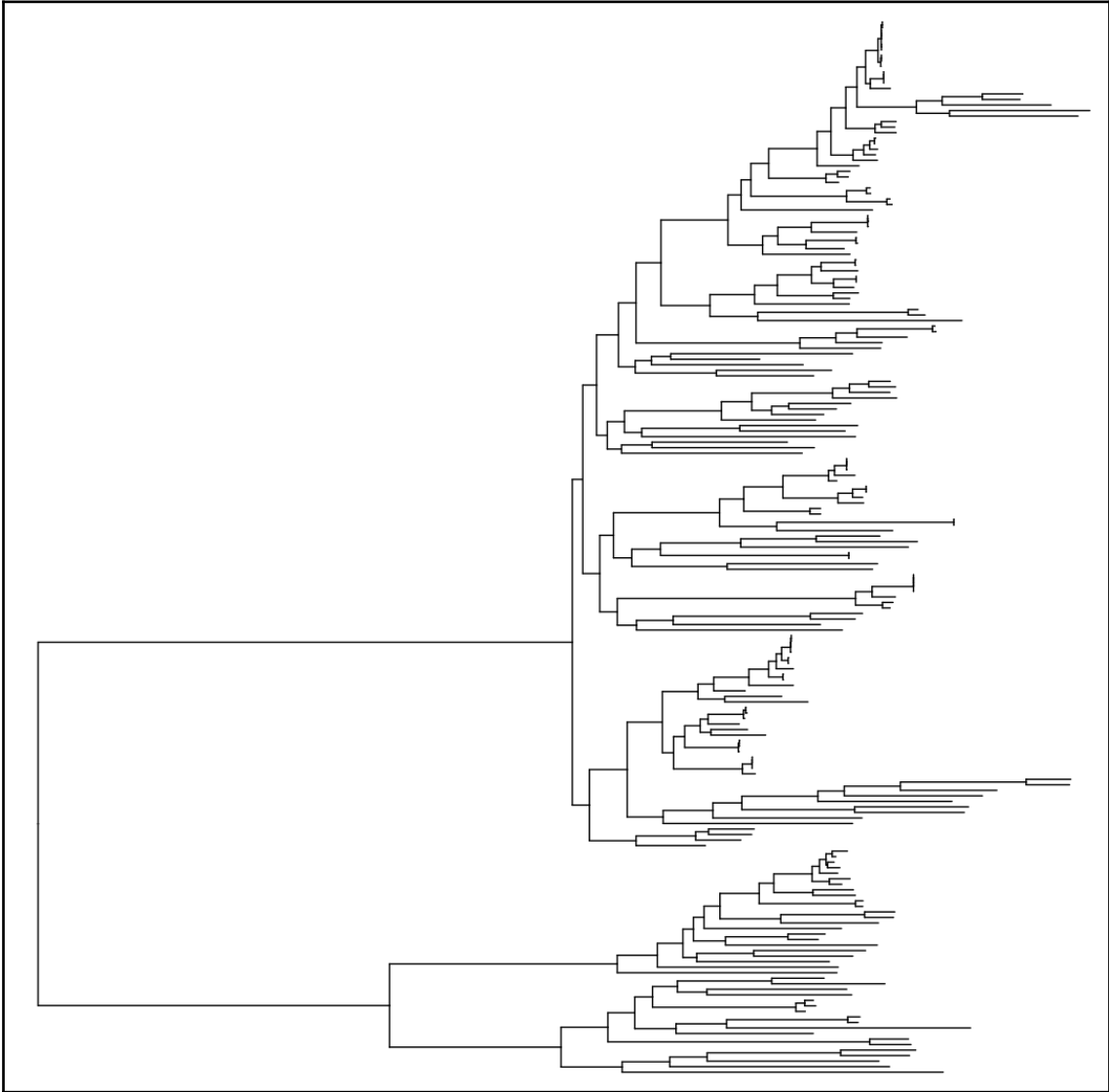
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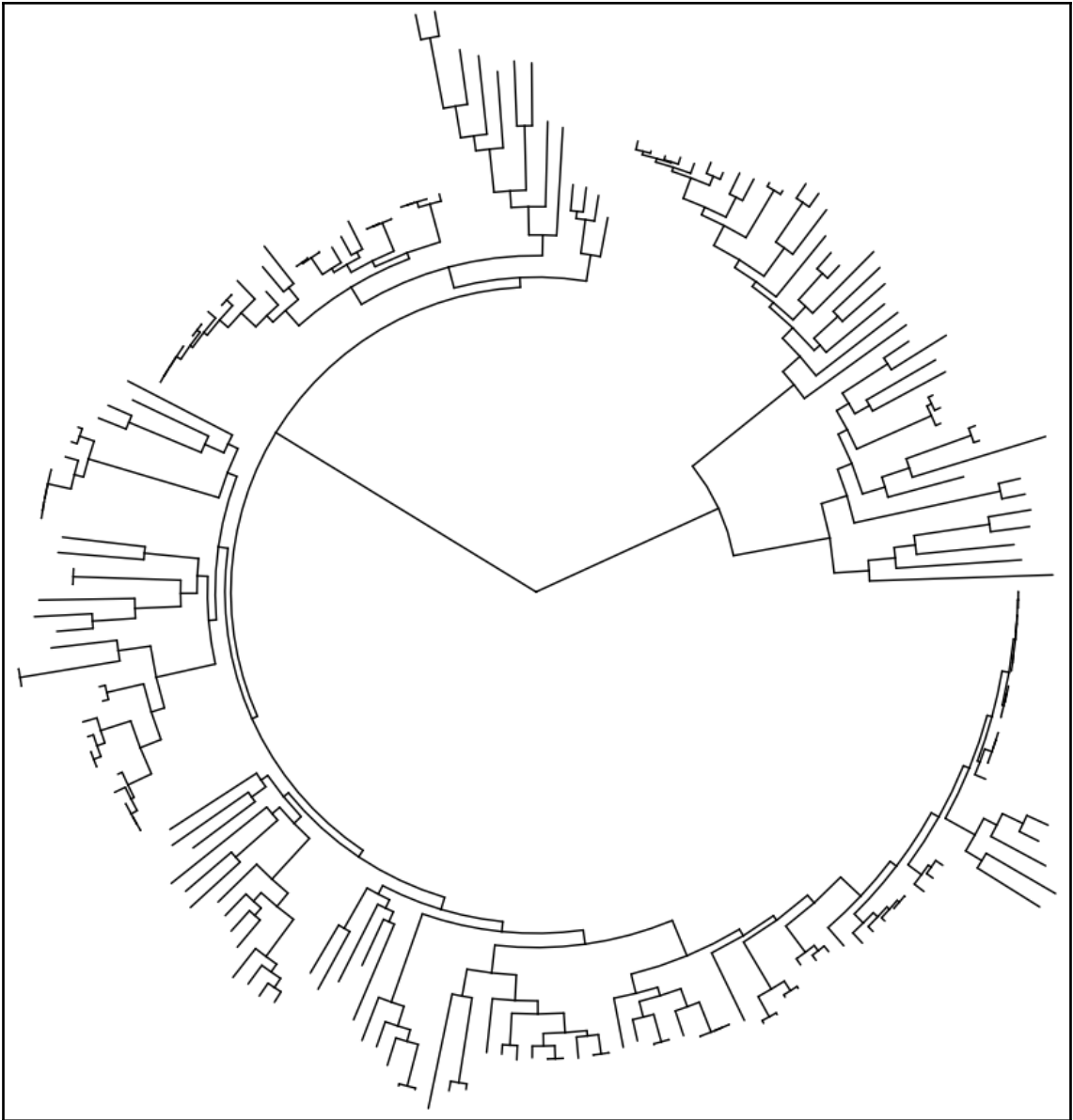
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Buttons L M R (keys)
& Keys Rota Move MovZ Slab
Shft +Box -Box Clip MovS
Ctrl Move PkAt PkI MvSz
Ctrl Sele Orig Clip MovZ
SnglClk +/- Cent Menu
DbtClk Menu - PkAt
Selecting Residues
State 1/1

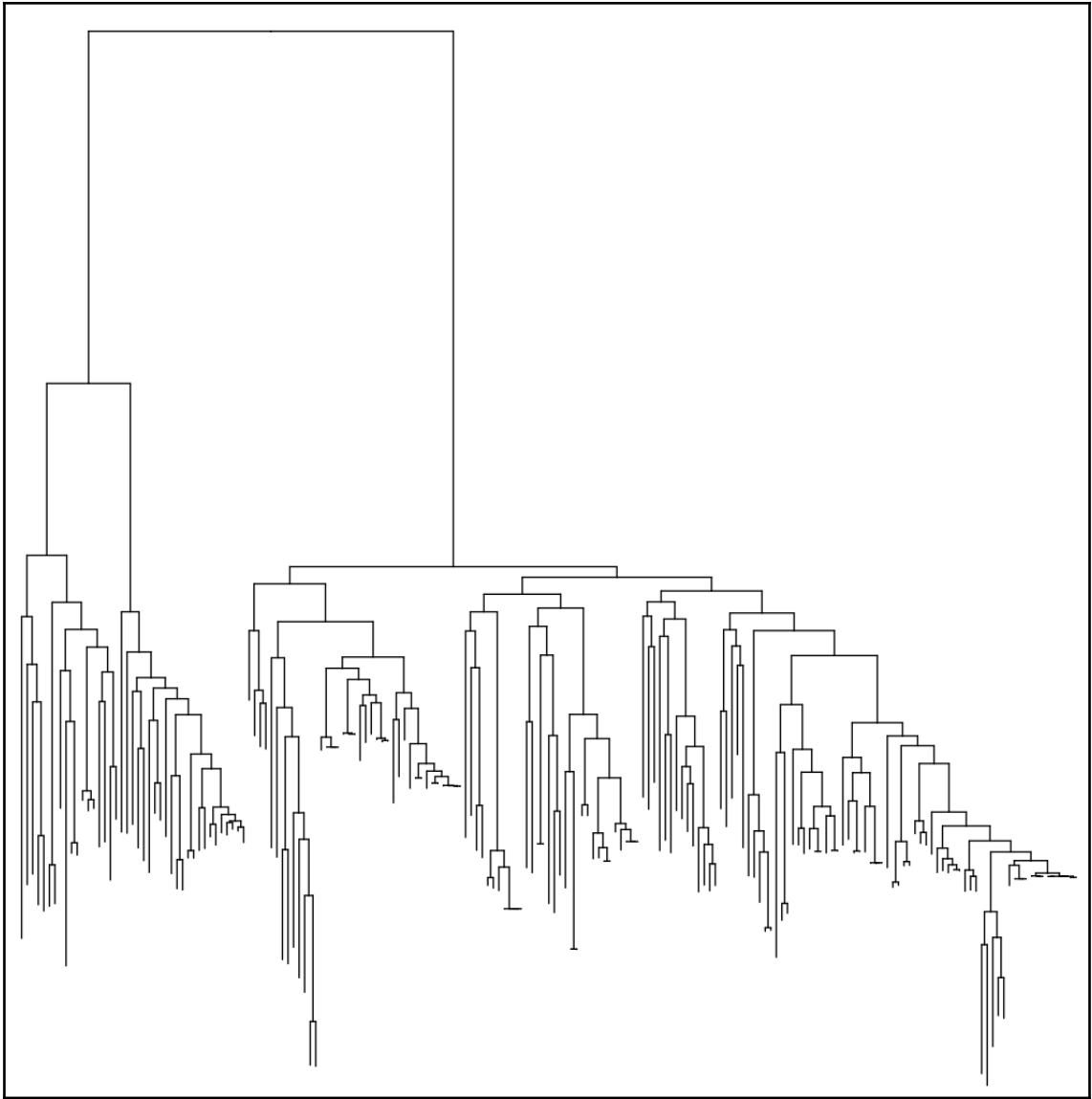
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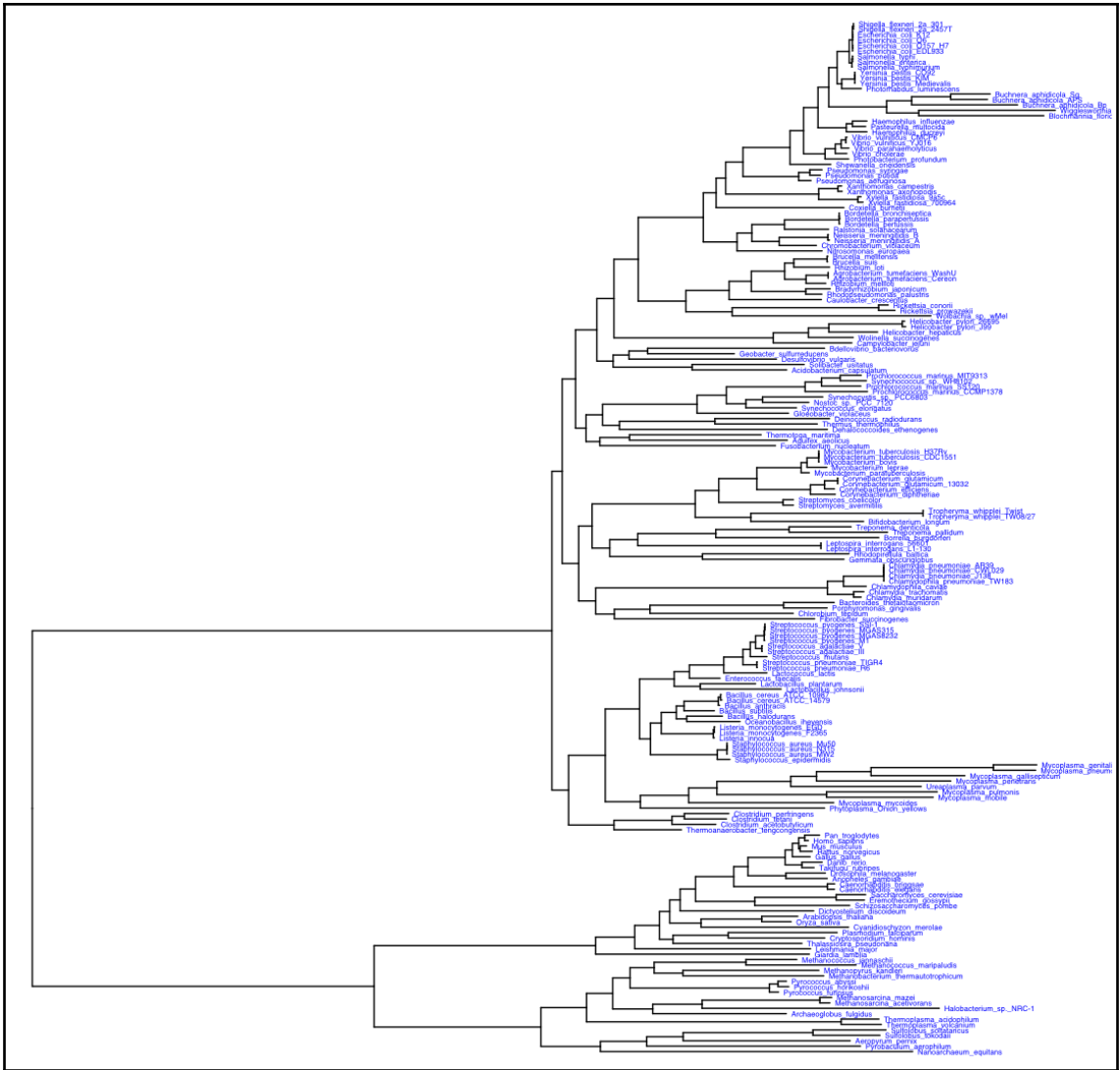
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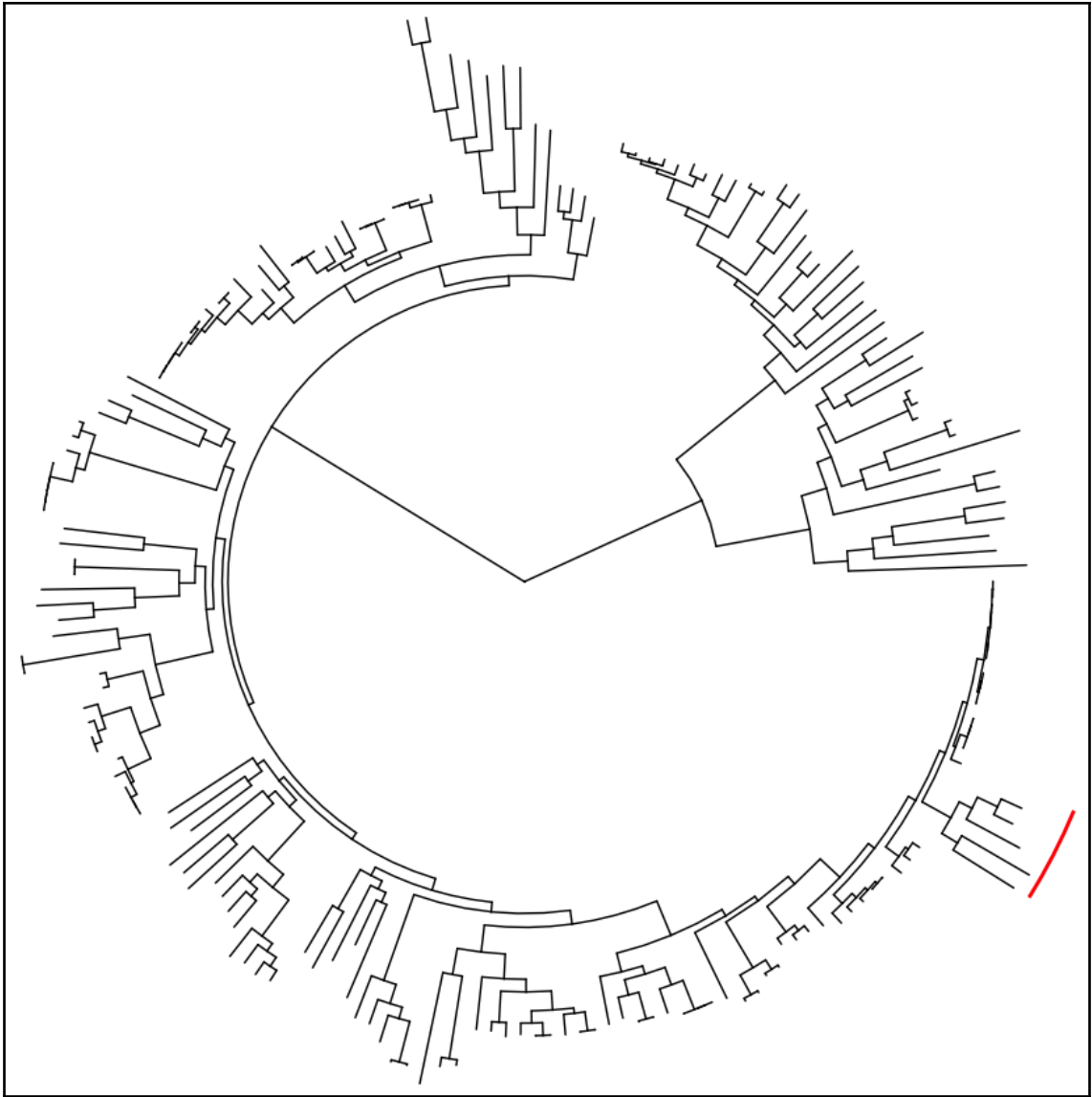
Chapter 4: Phylogenetic Analysis and Visualization

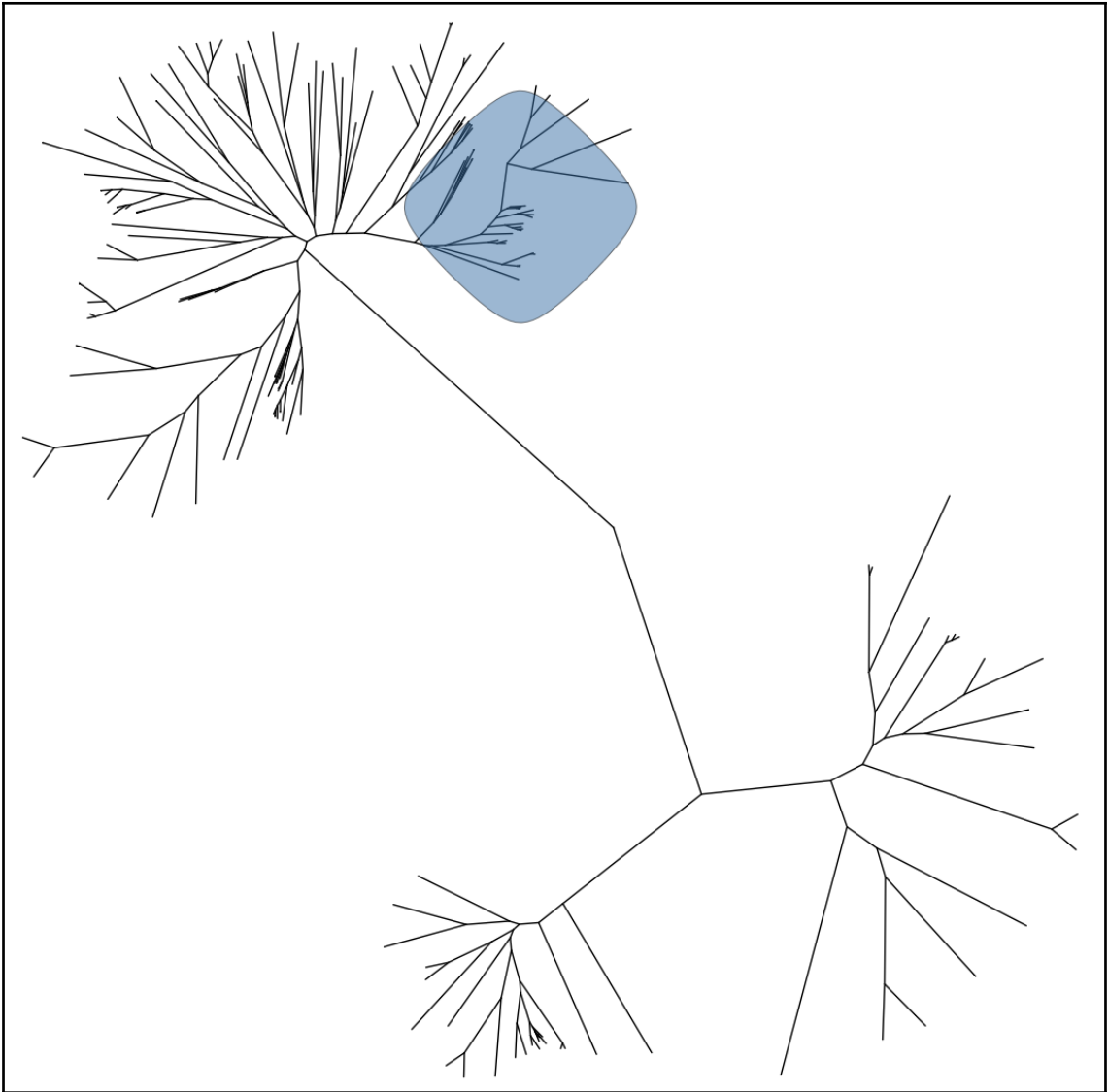


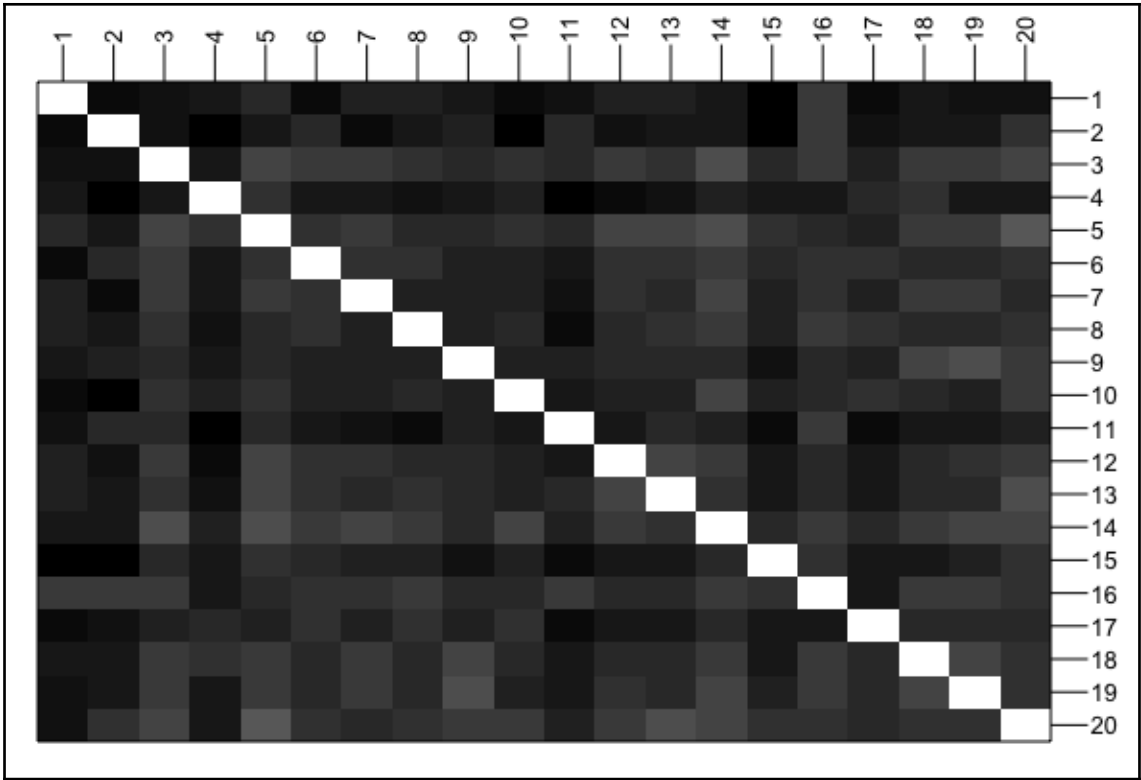


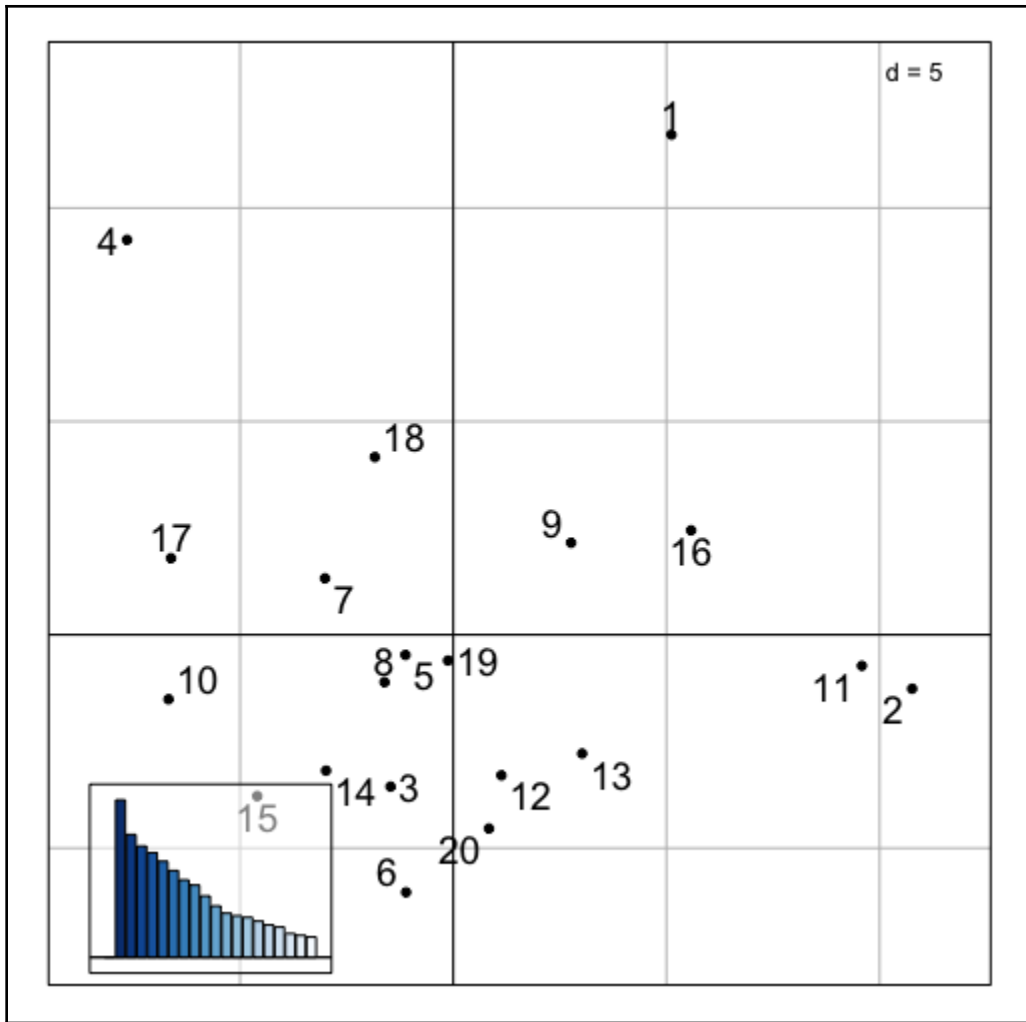


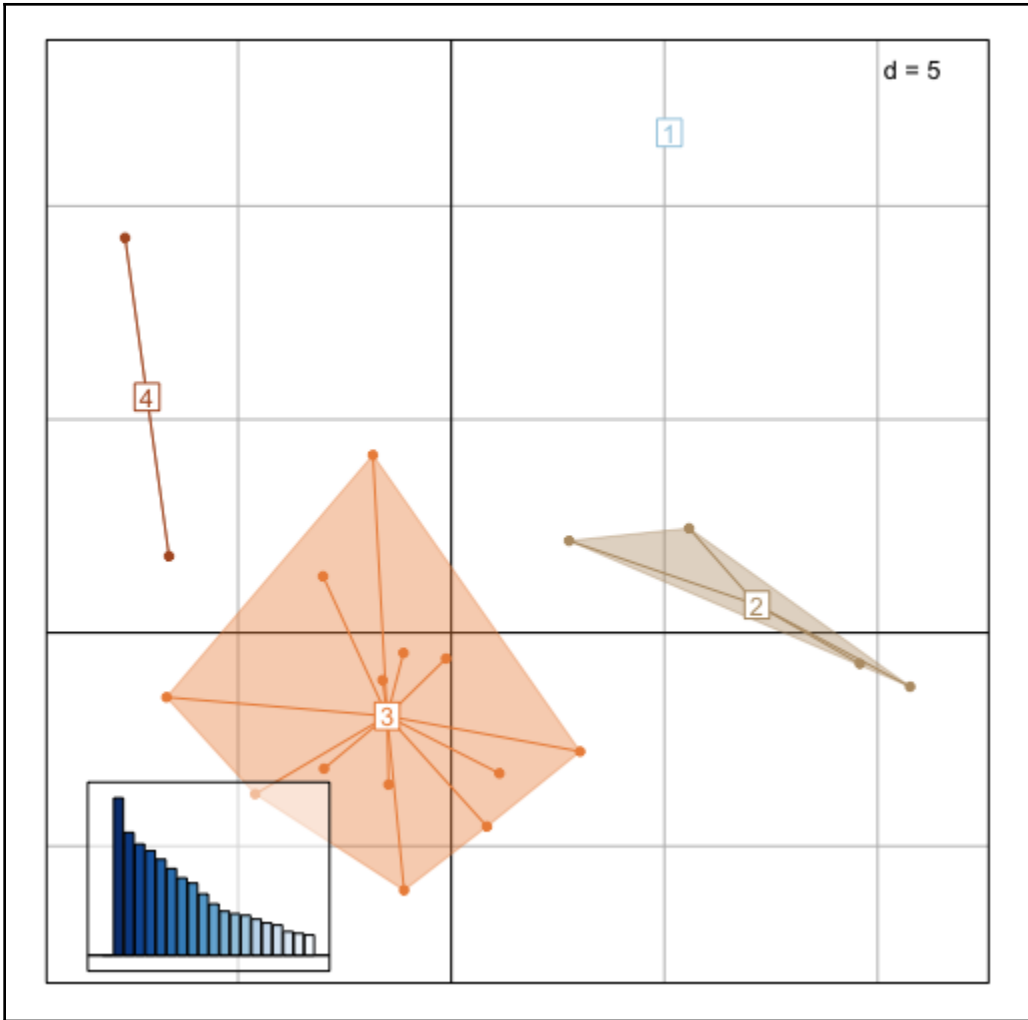


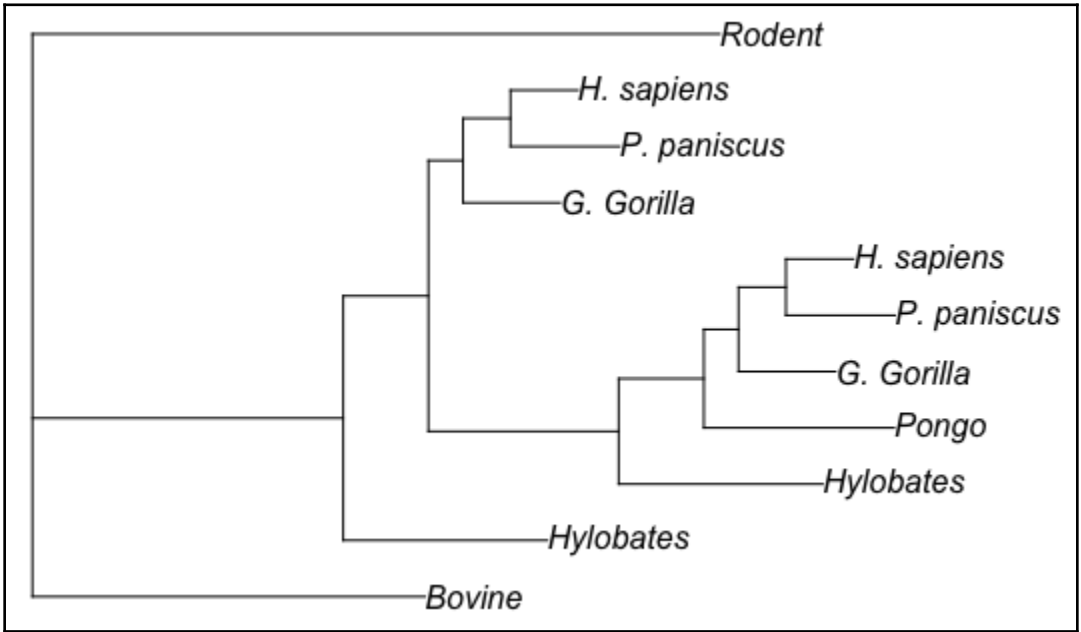
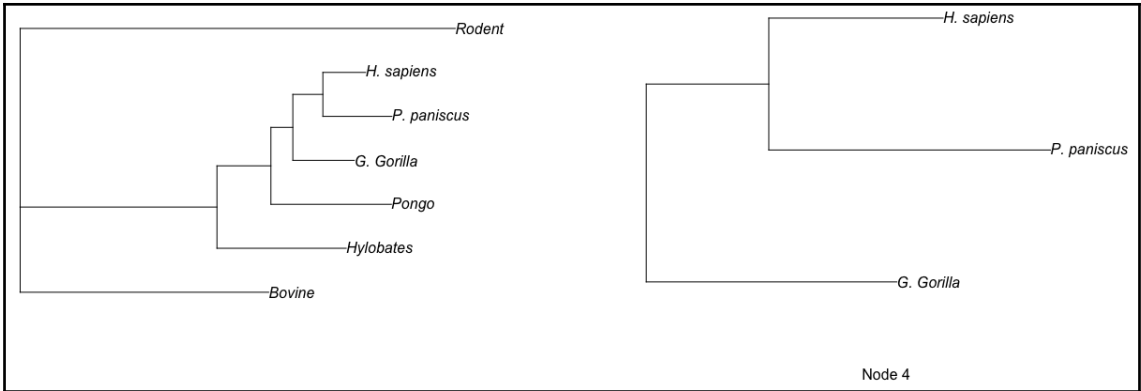


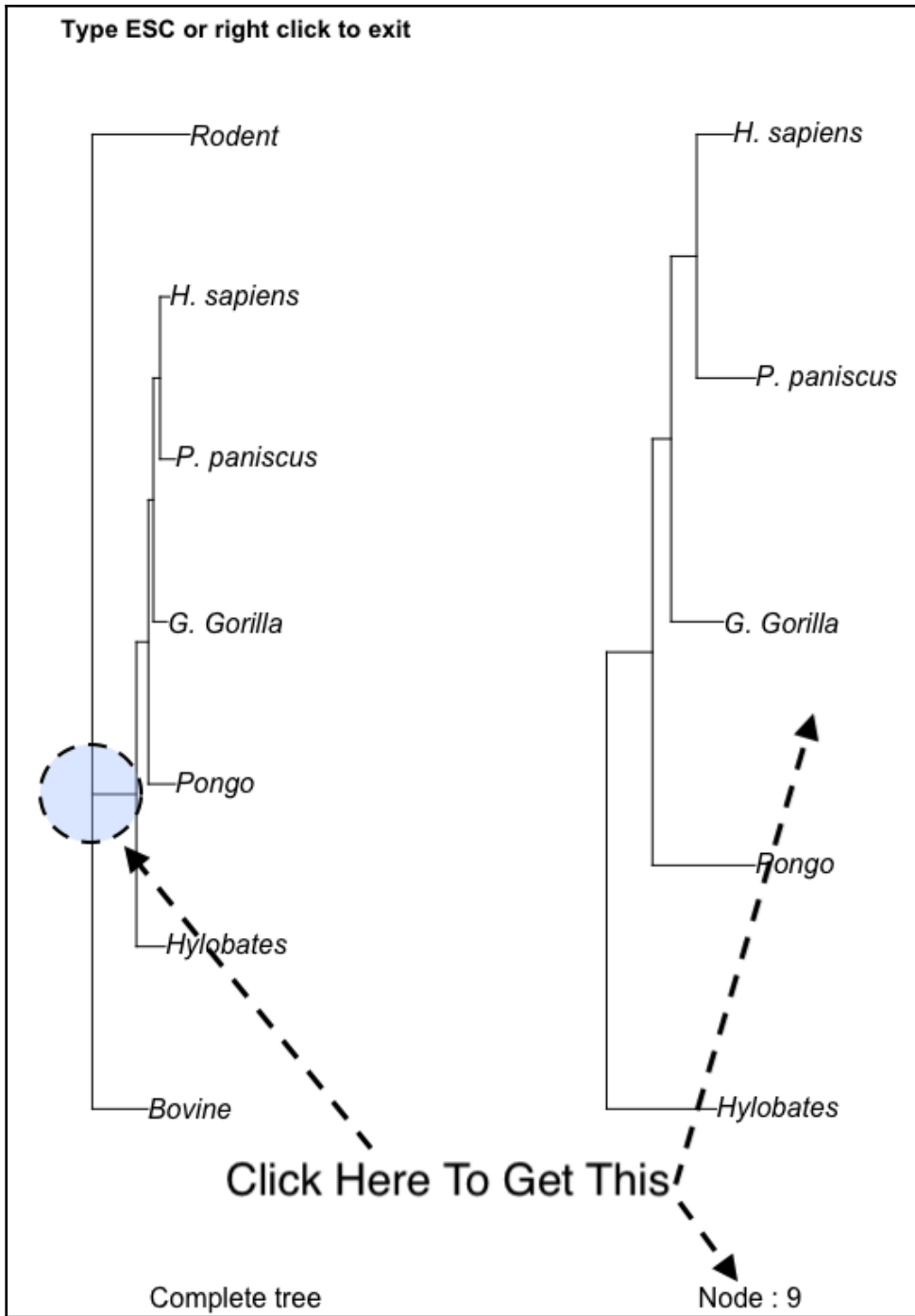


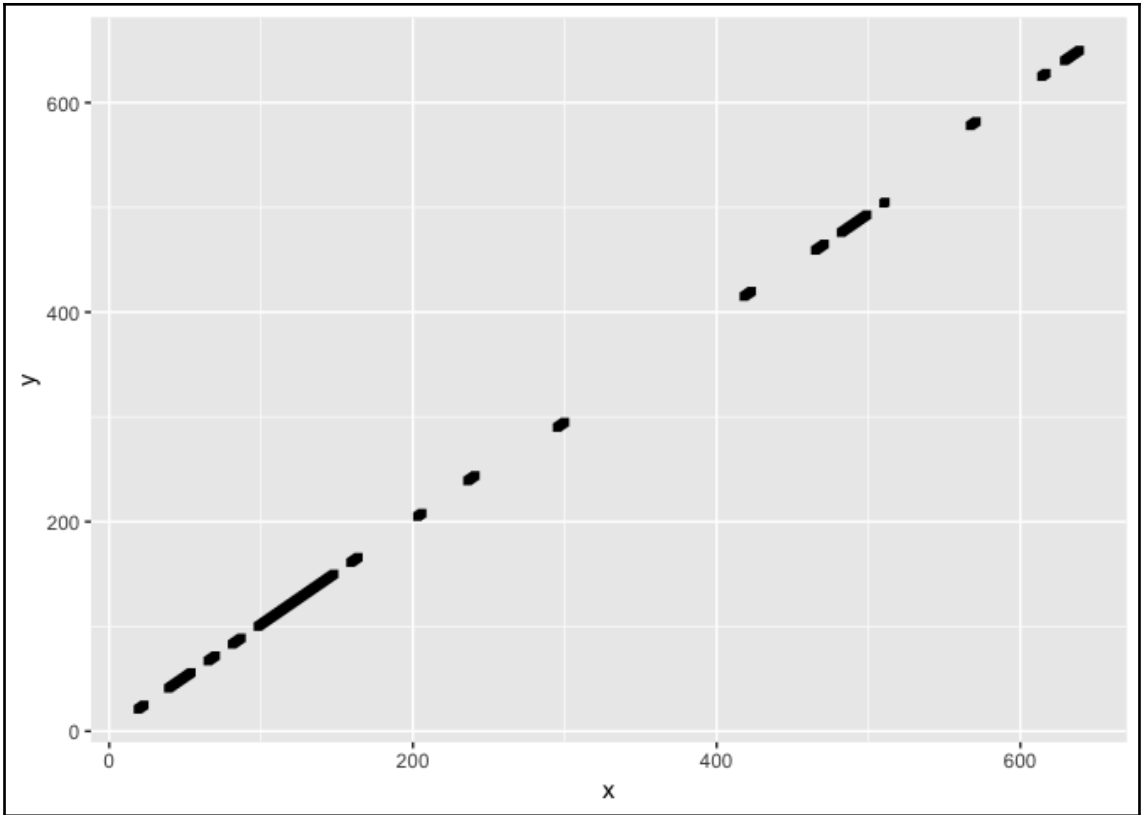


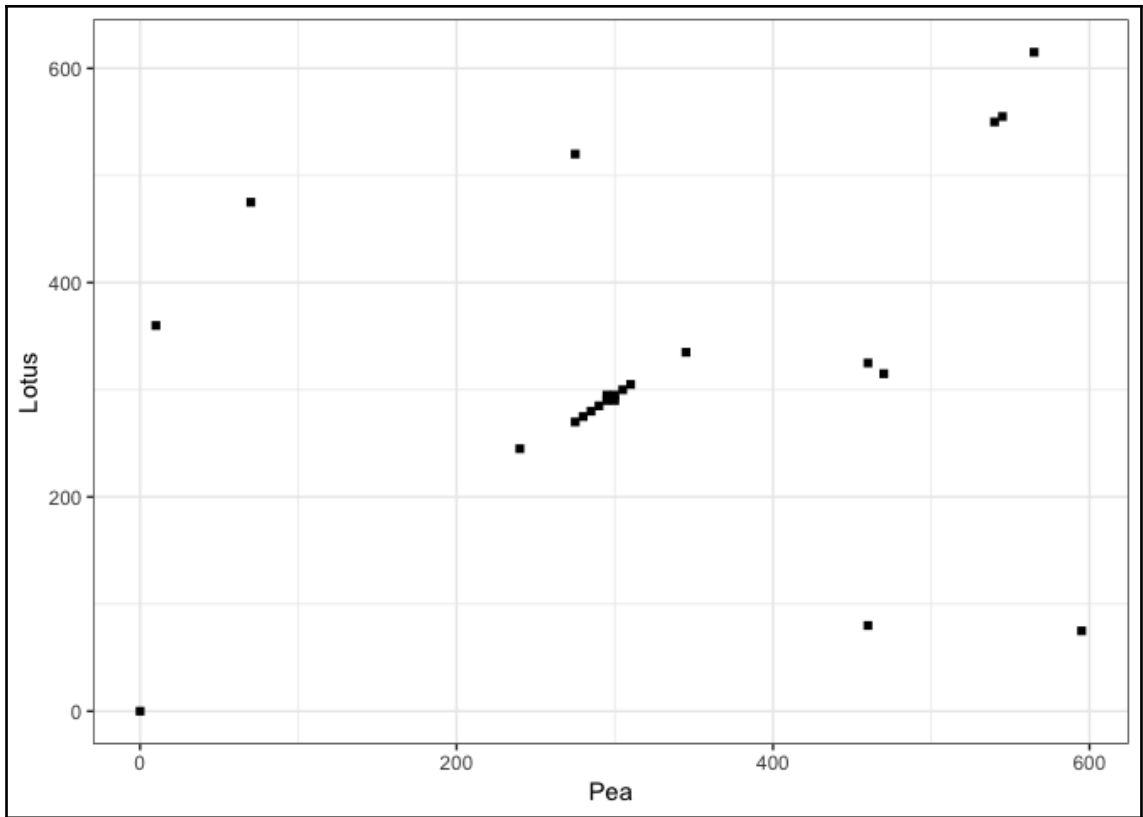


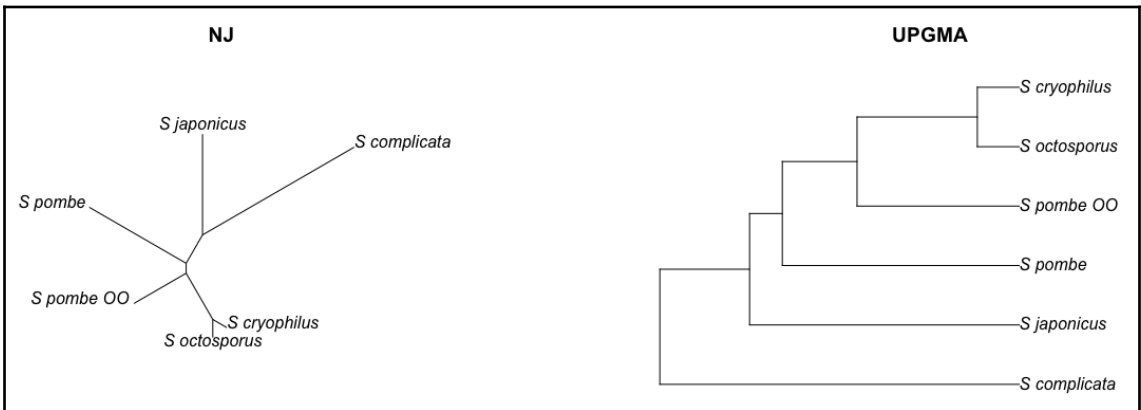
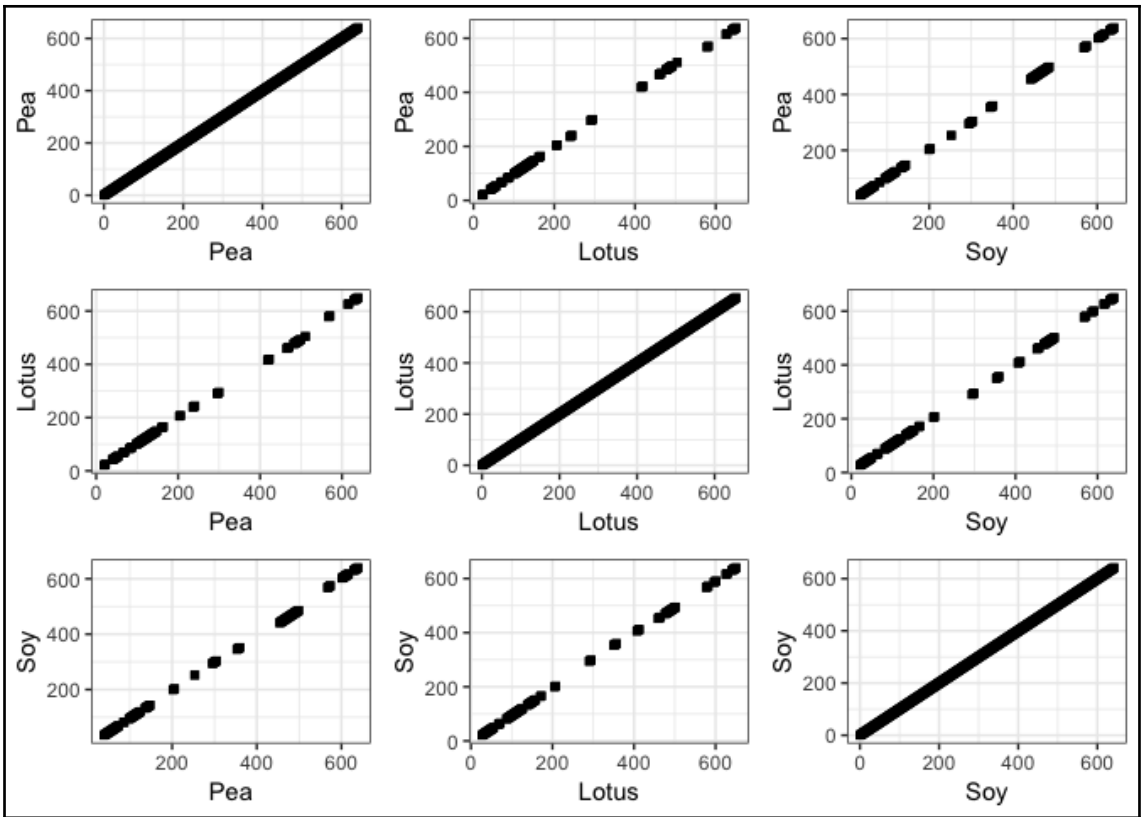




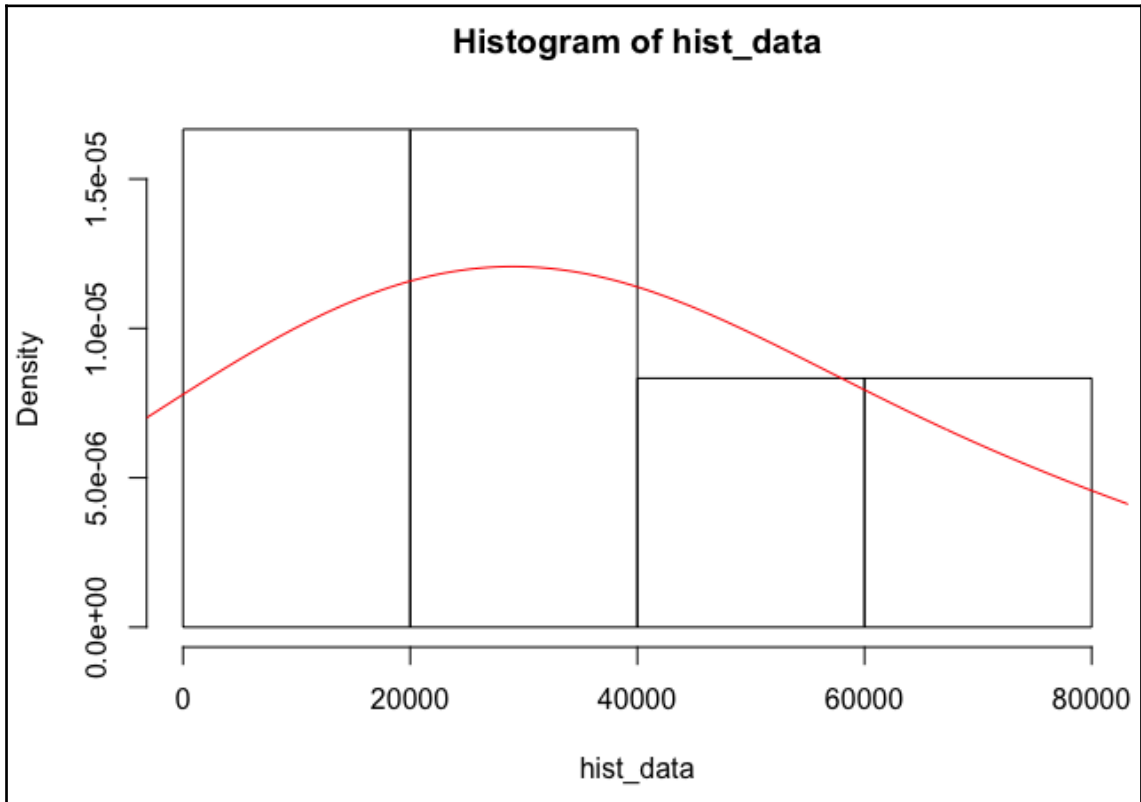


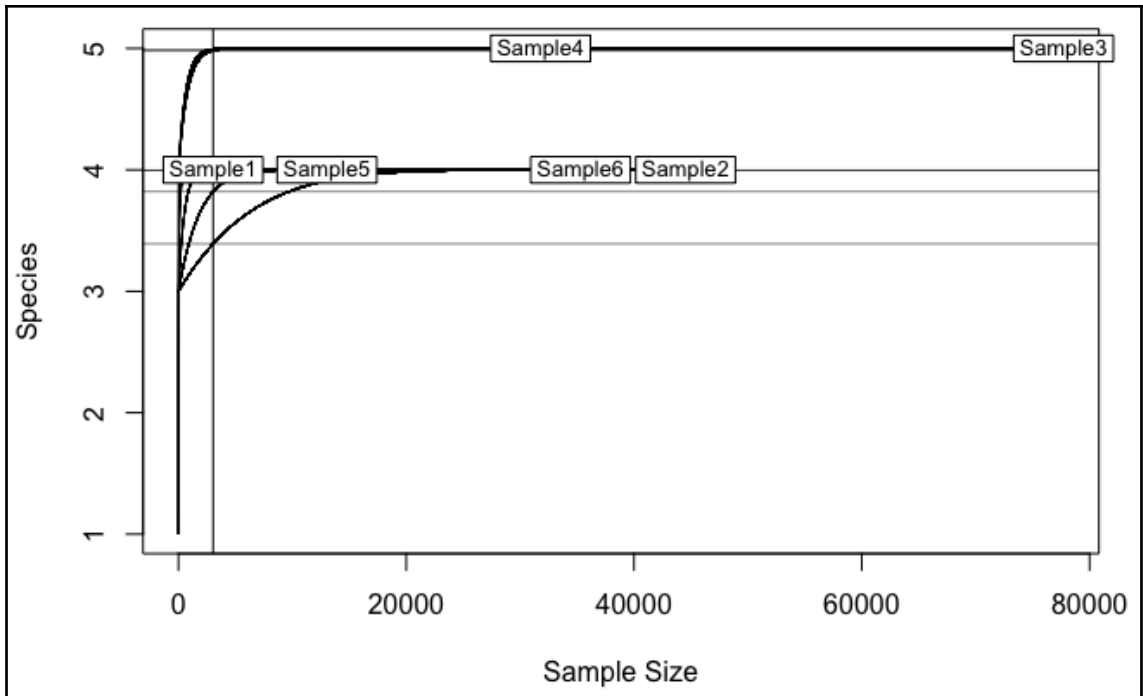


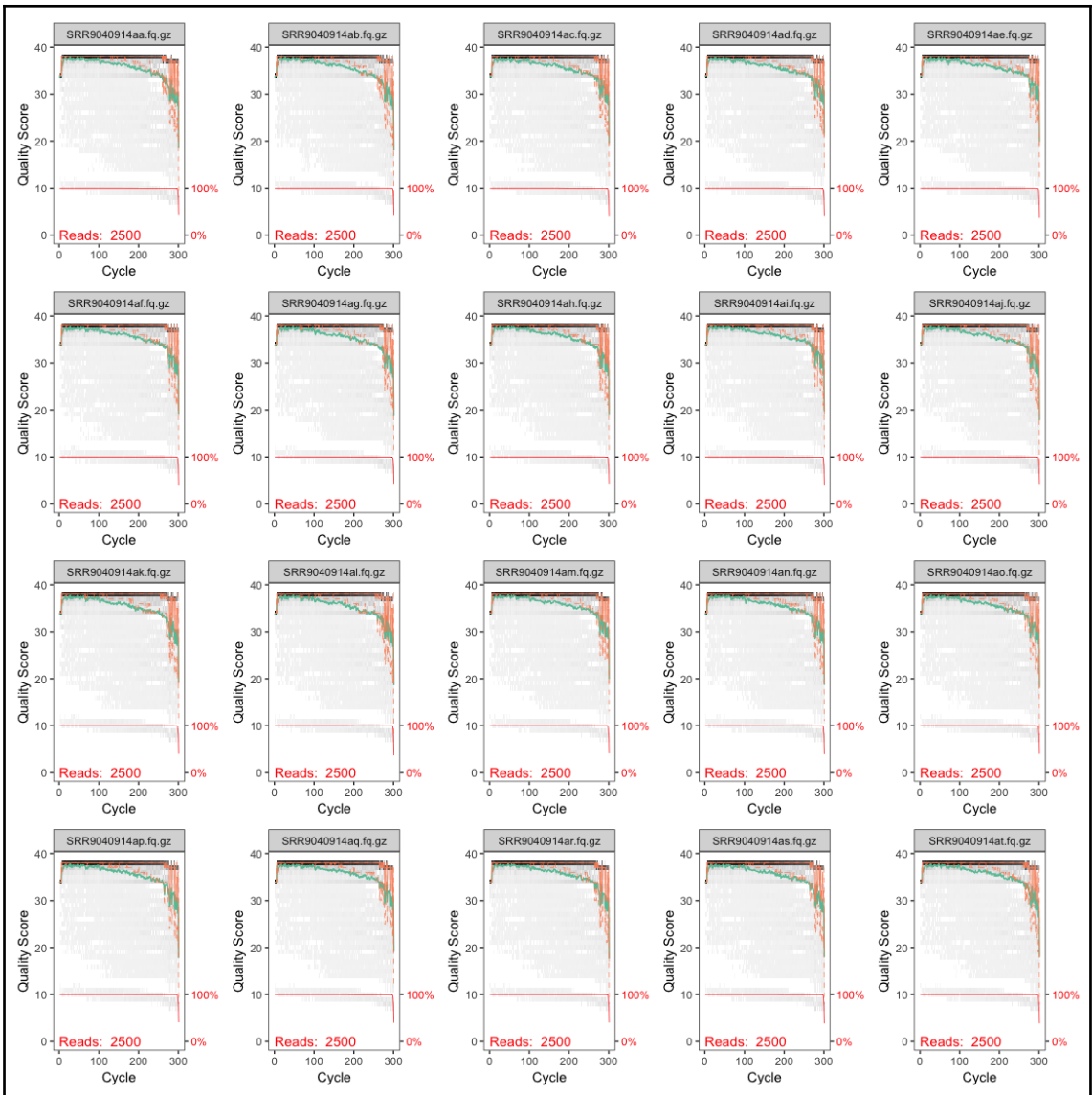




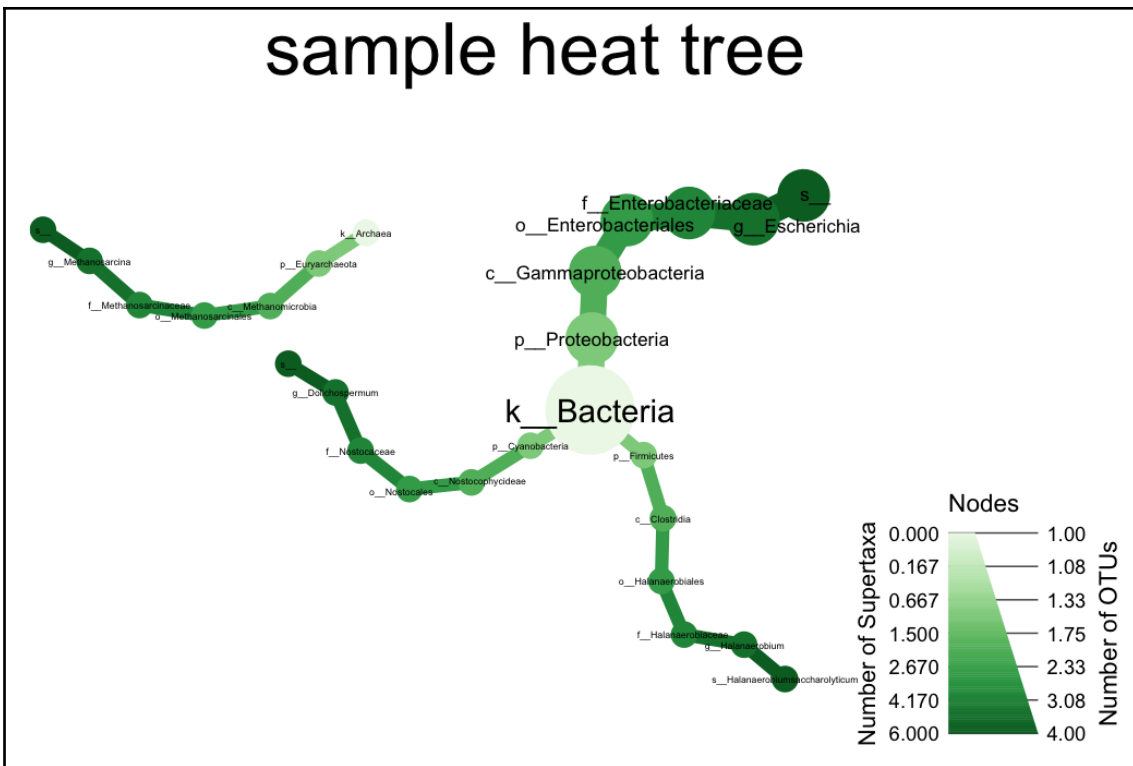
Chapter 5: Metagenomics

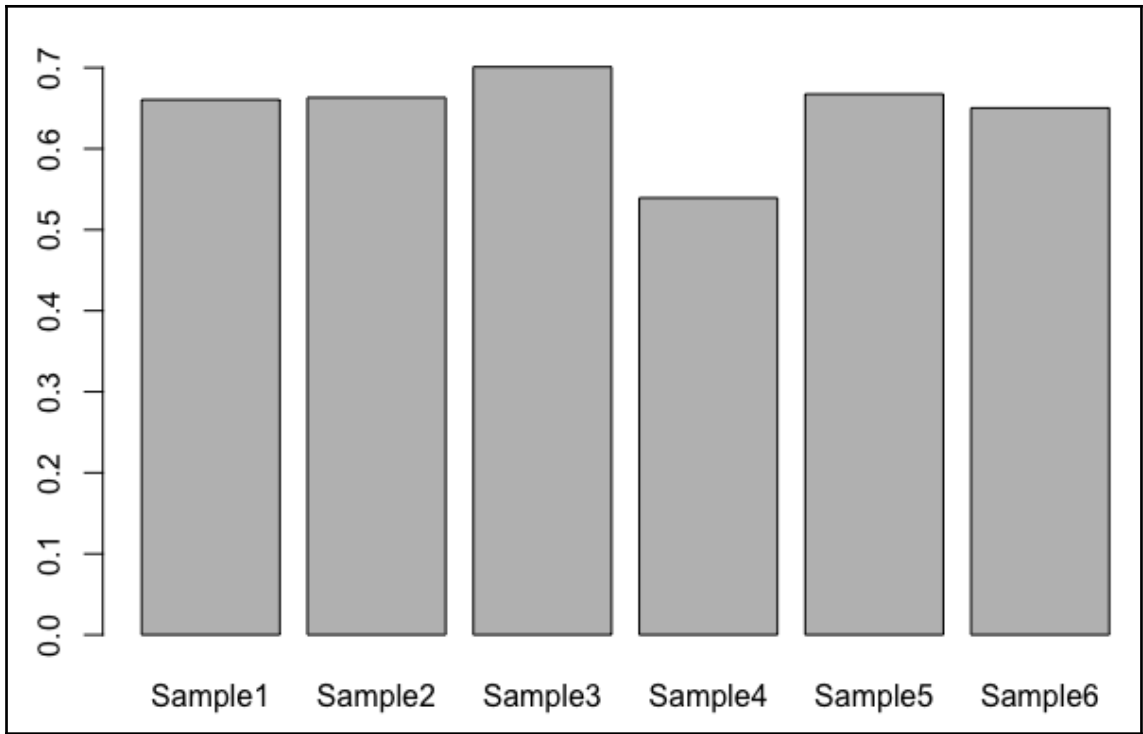


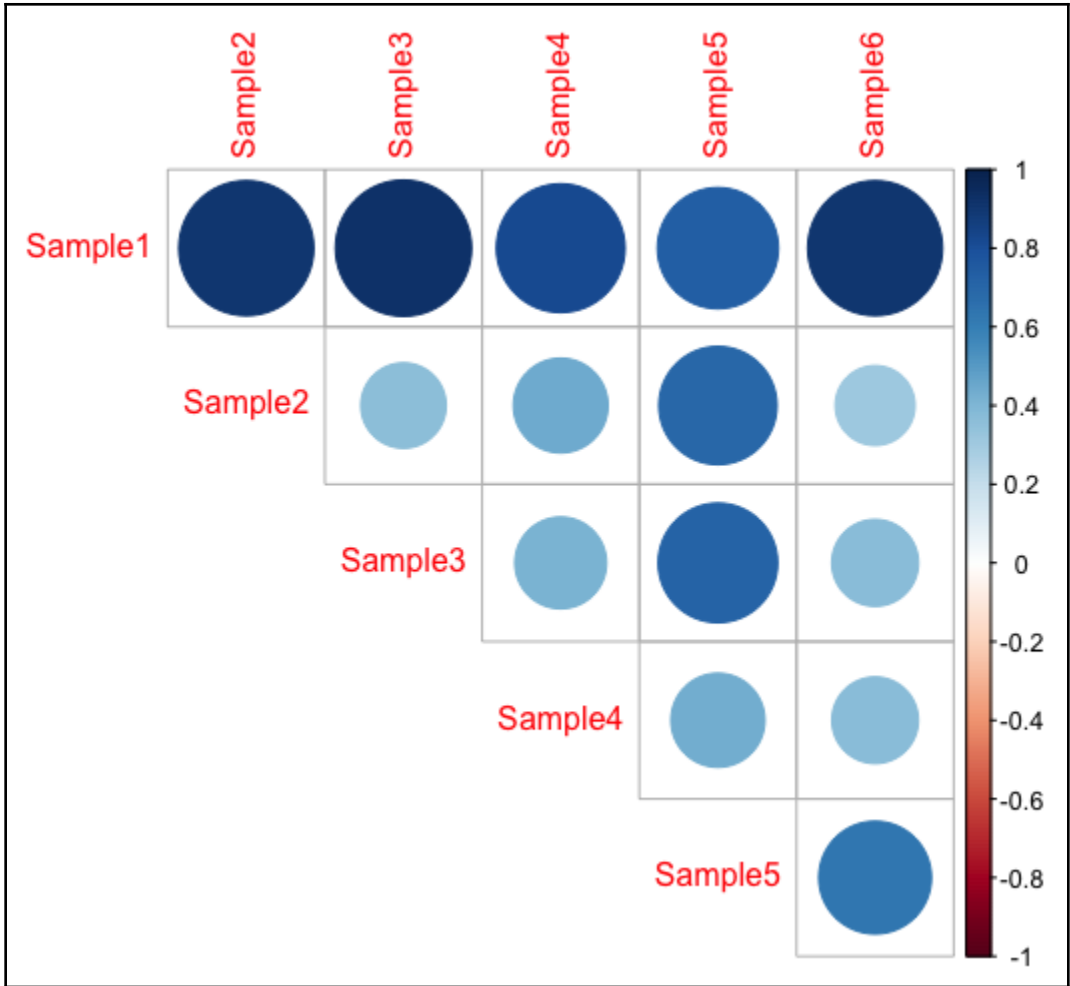




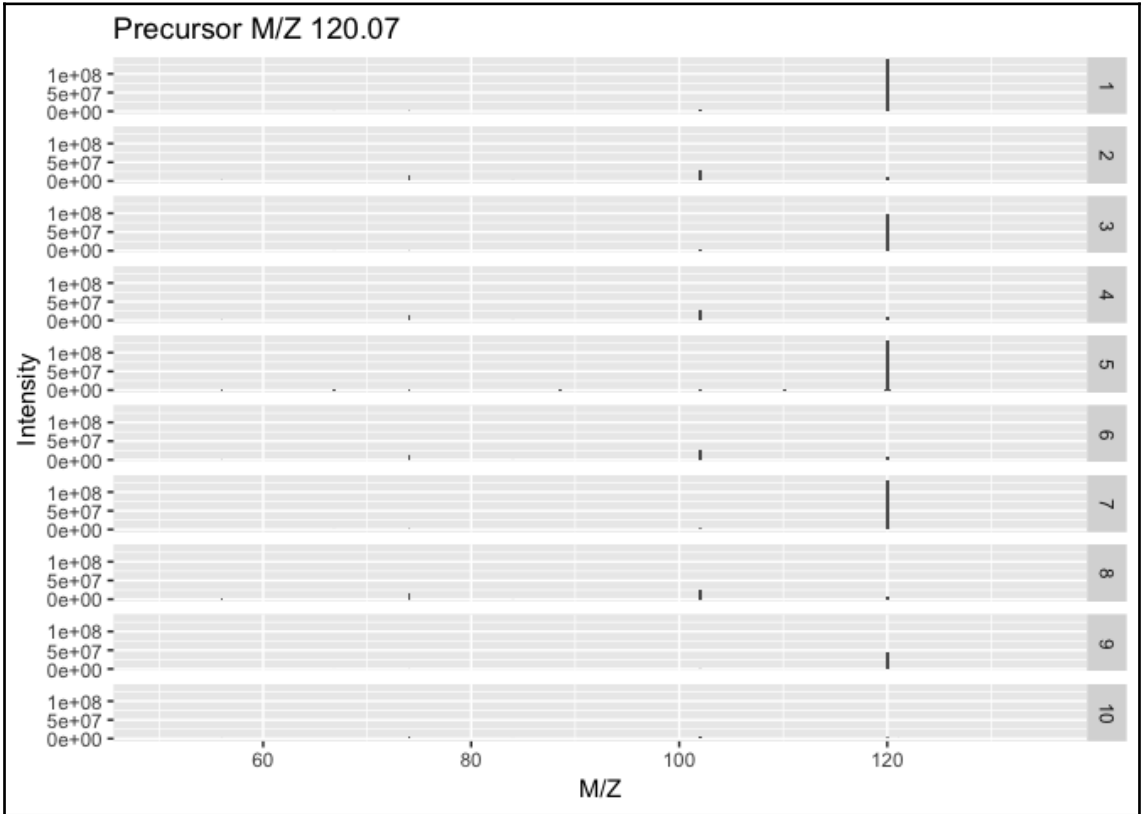
sample heat tree

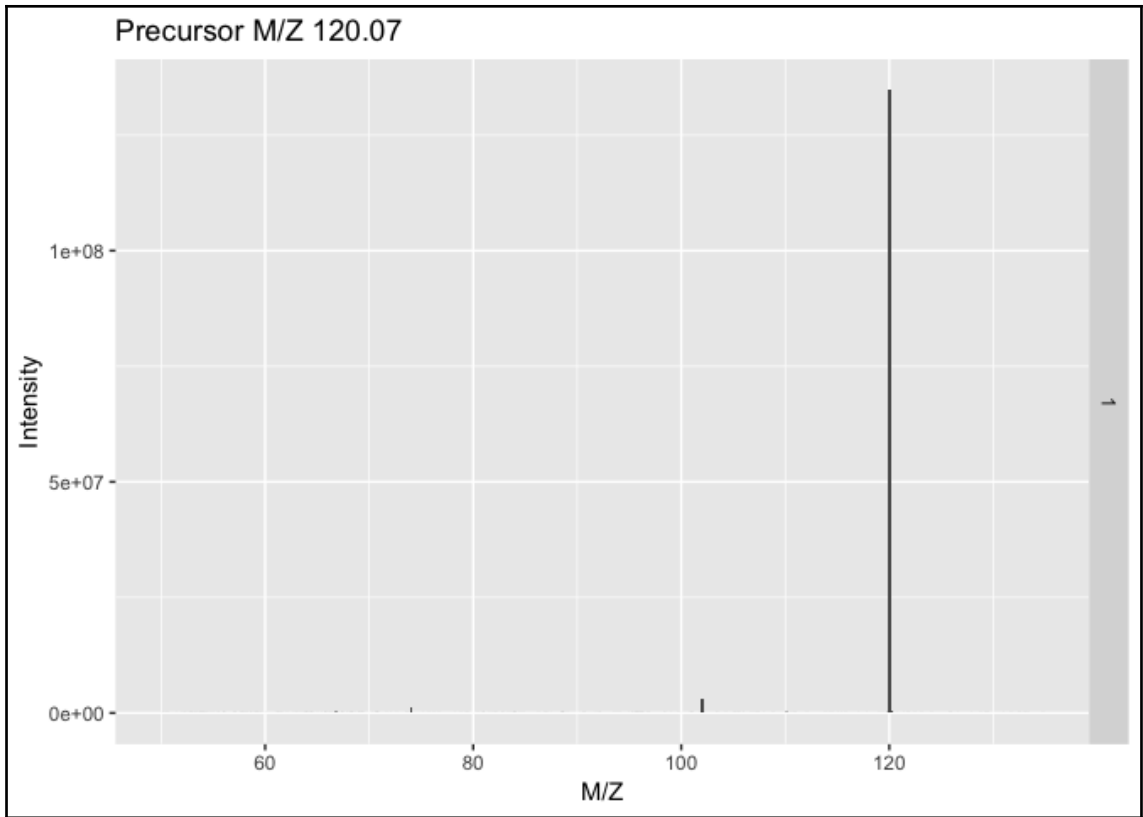






Chapter 6: Proteomics from Spectrum to Annotation

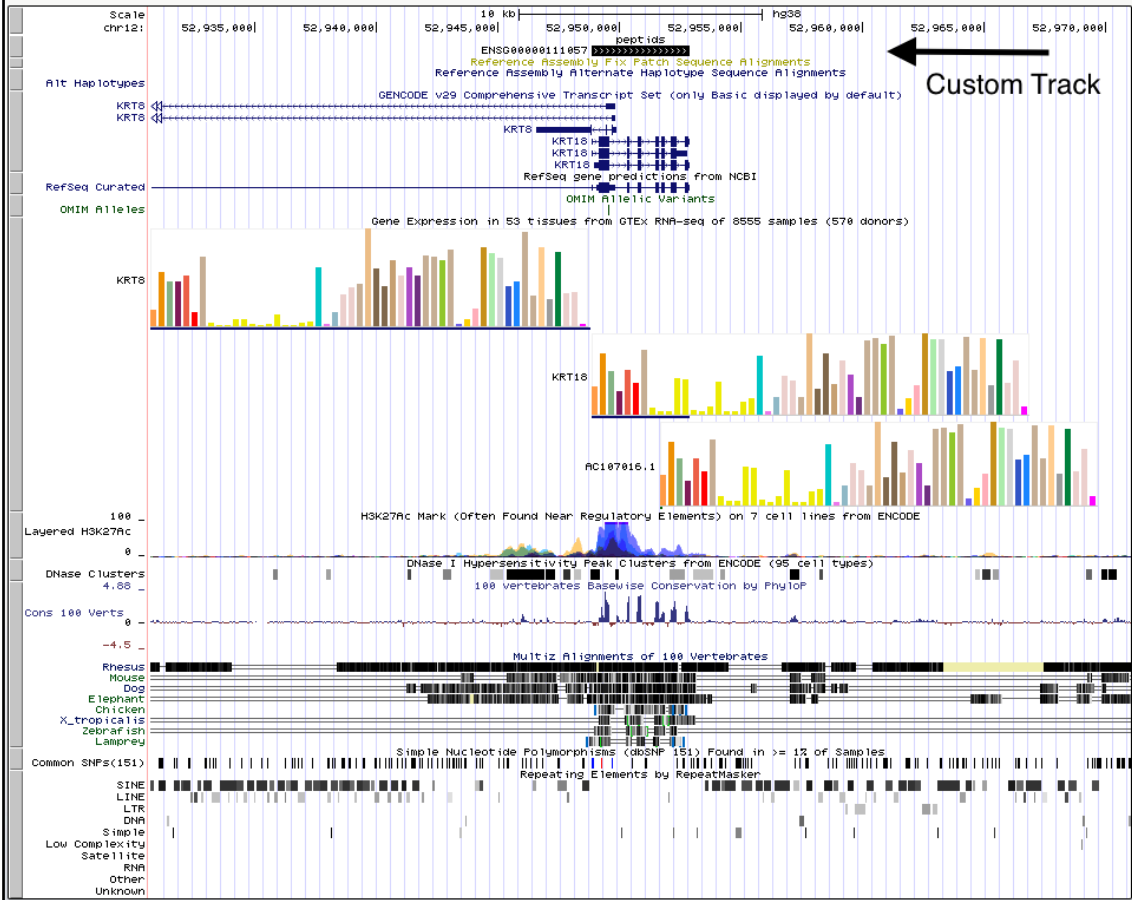


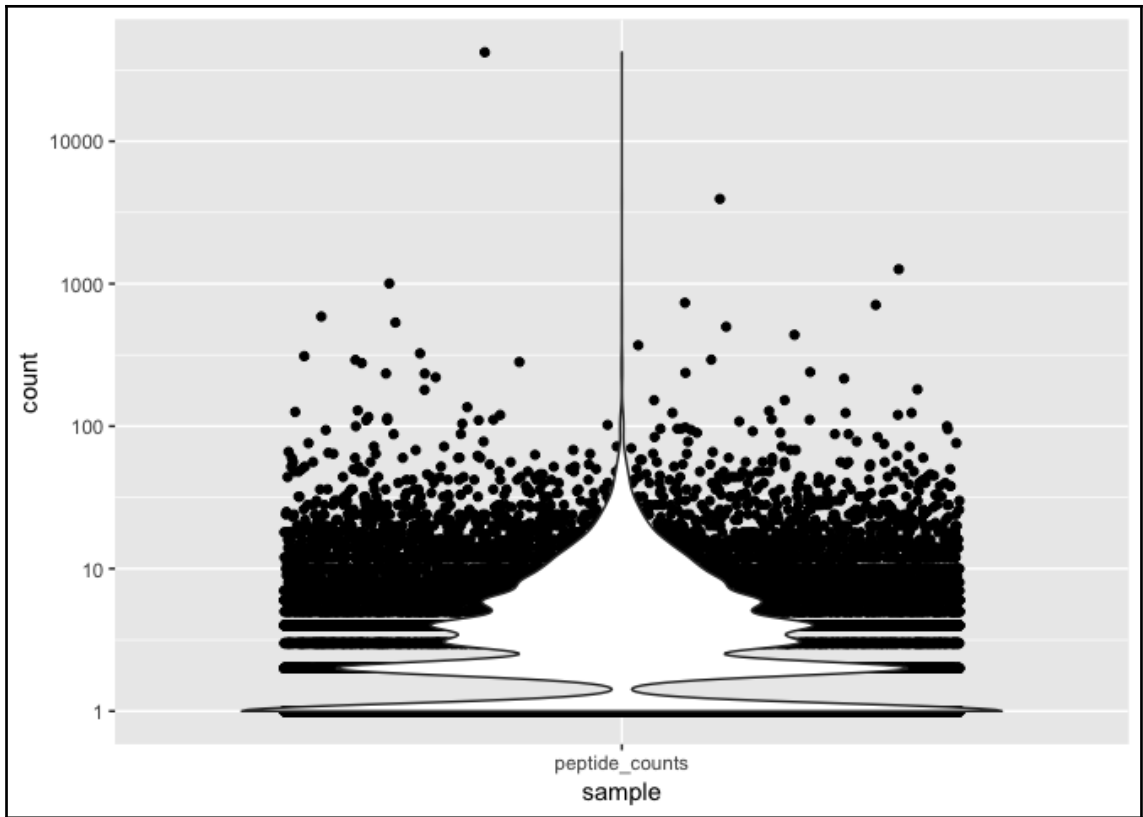


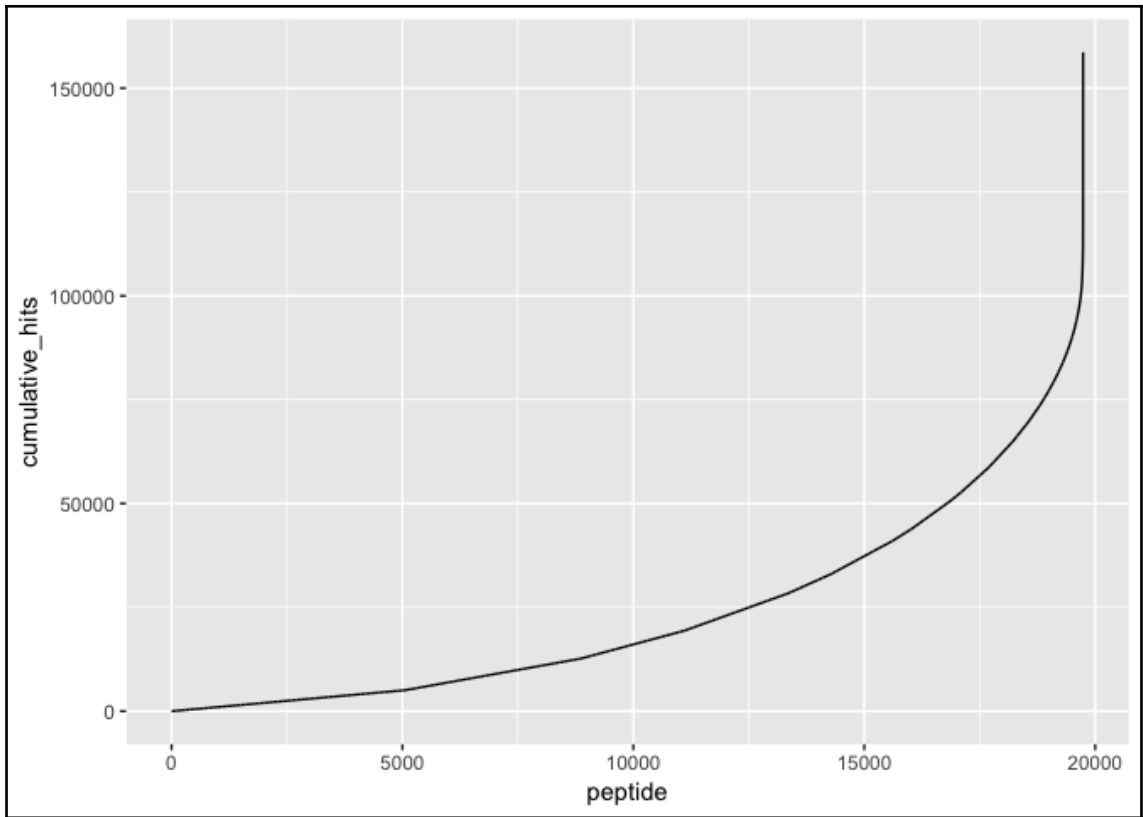
UCSC Genome Browser on Human Dec. 2013 (GRCh38/hg38) Assembly

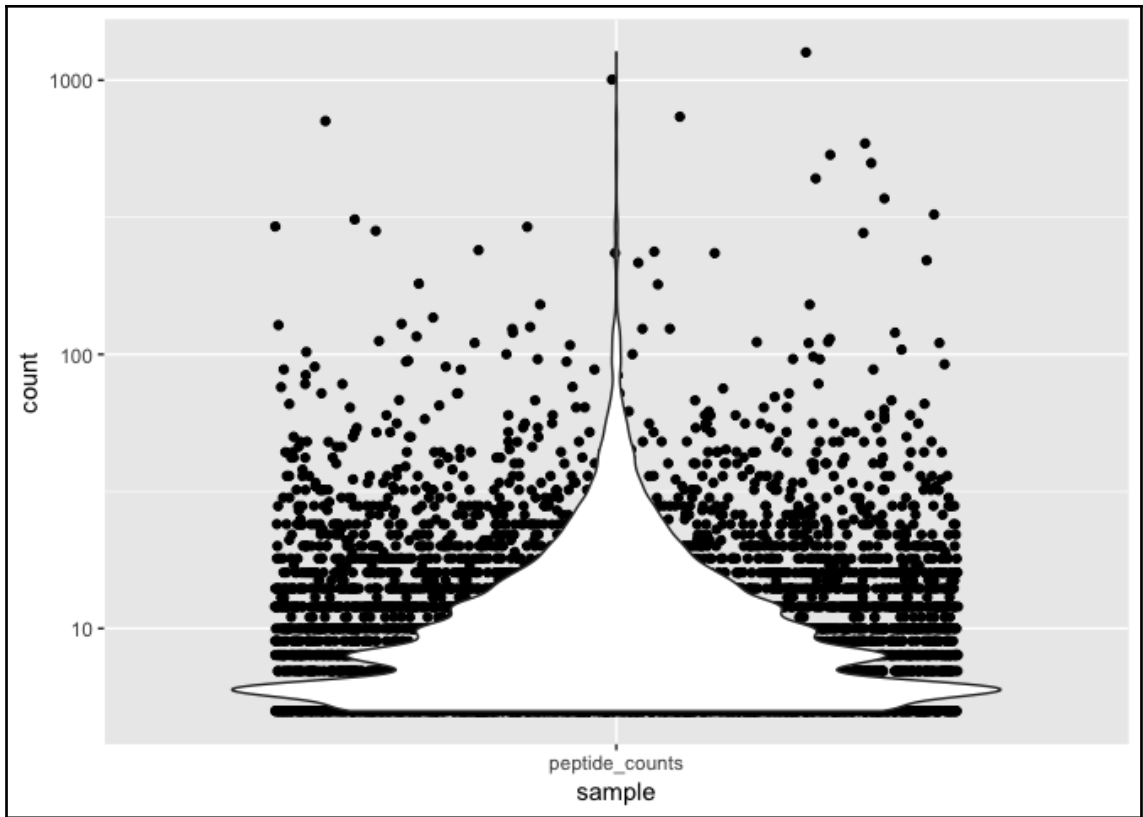
move <<< << < > >> >>> zoom in 1.5x 3x 10x base zoom out 1.5x 3x 10x 100x

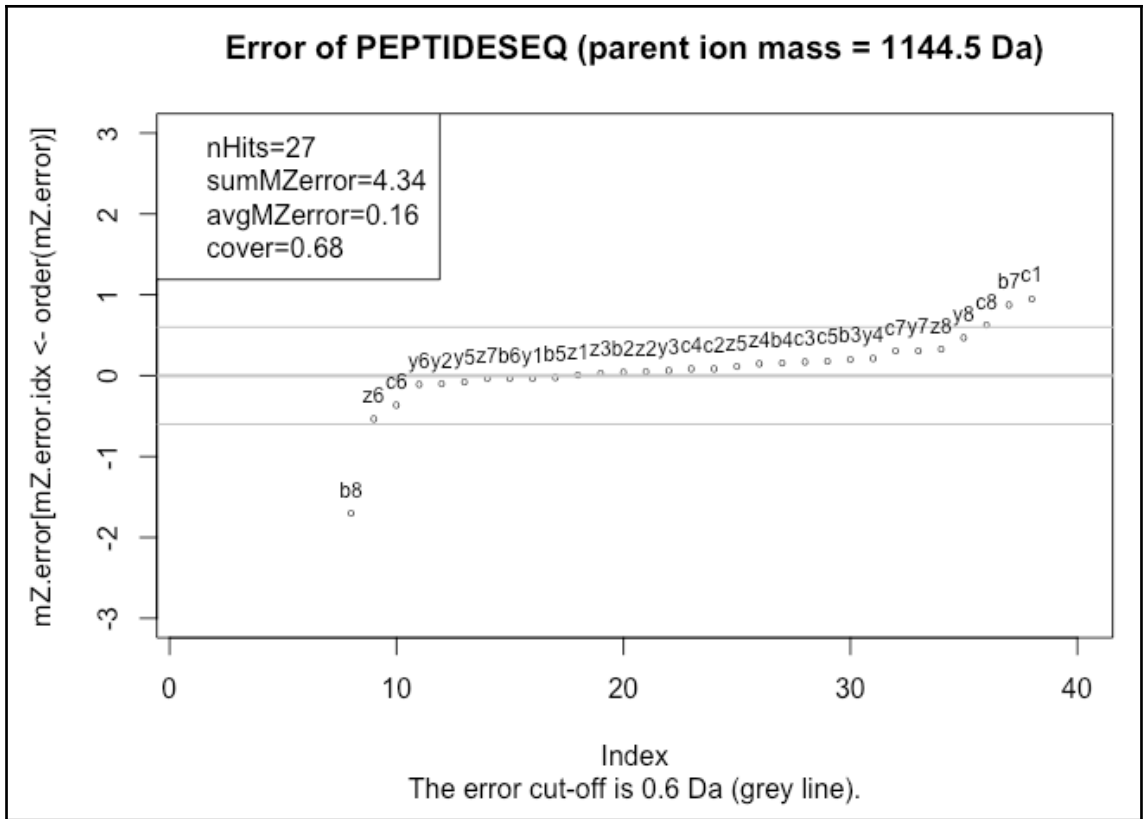
chr12:52,930,731-52,971,040 40,310 bp. enter position, gene symbol, HGVS or search terms go



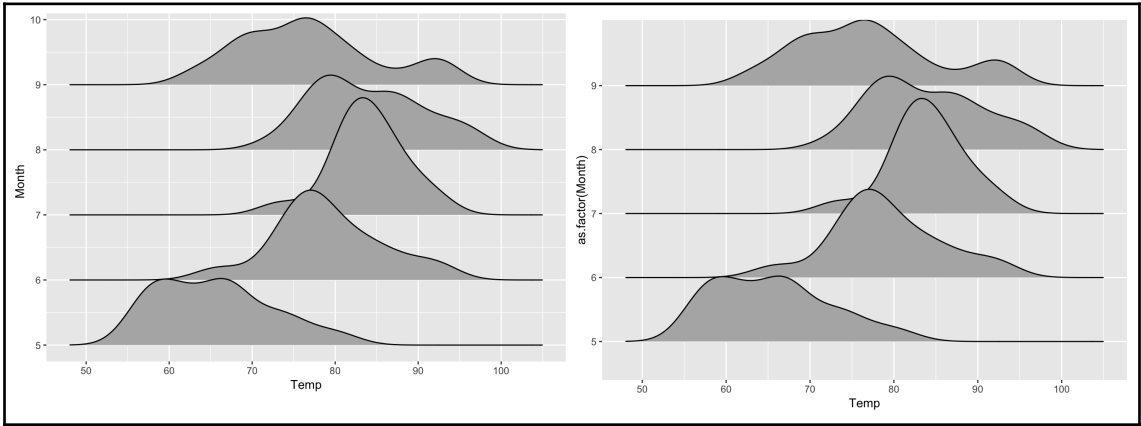


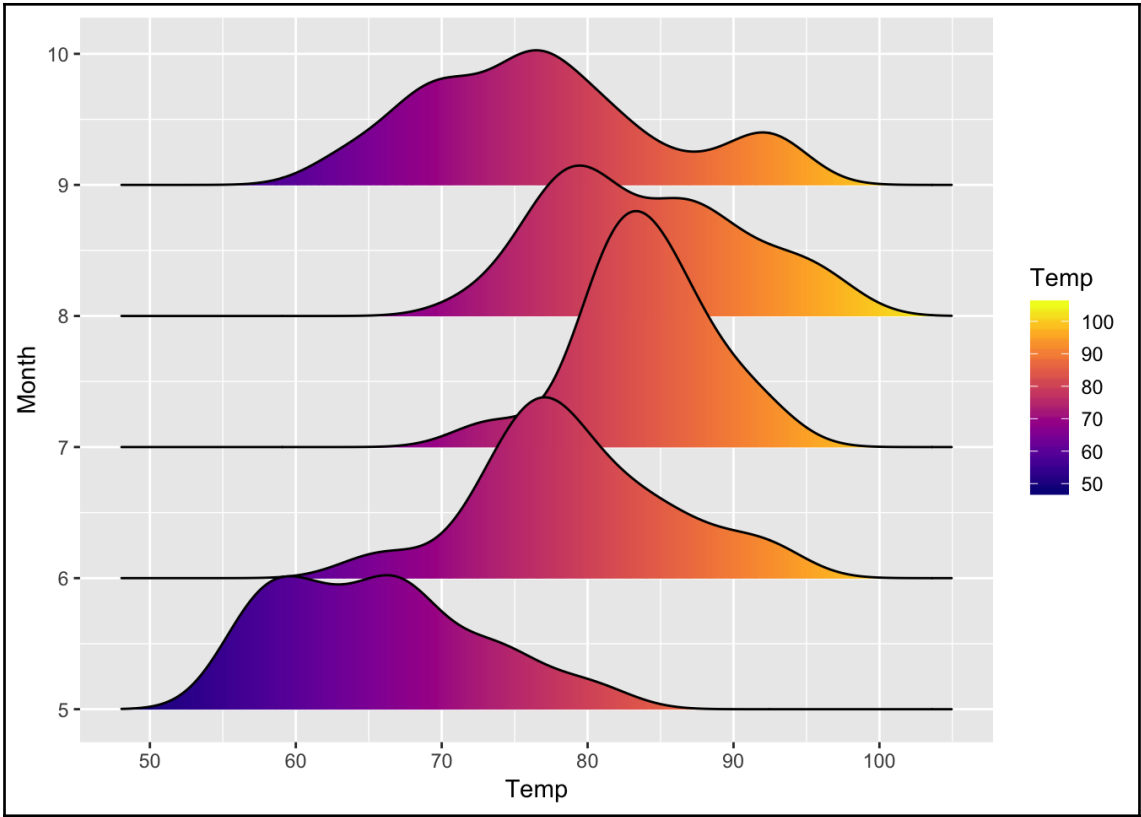


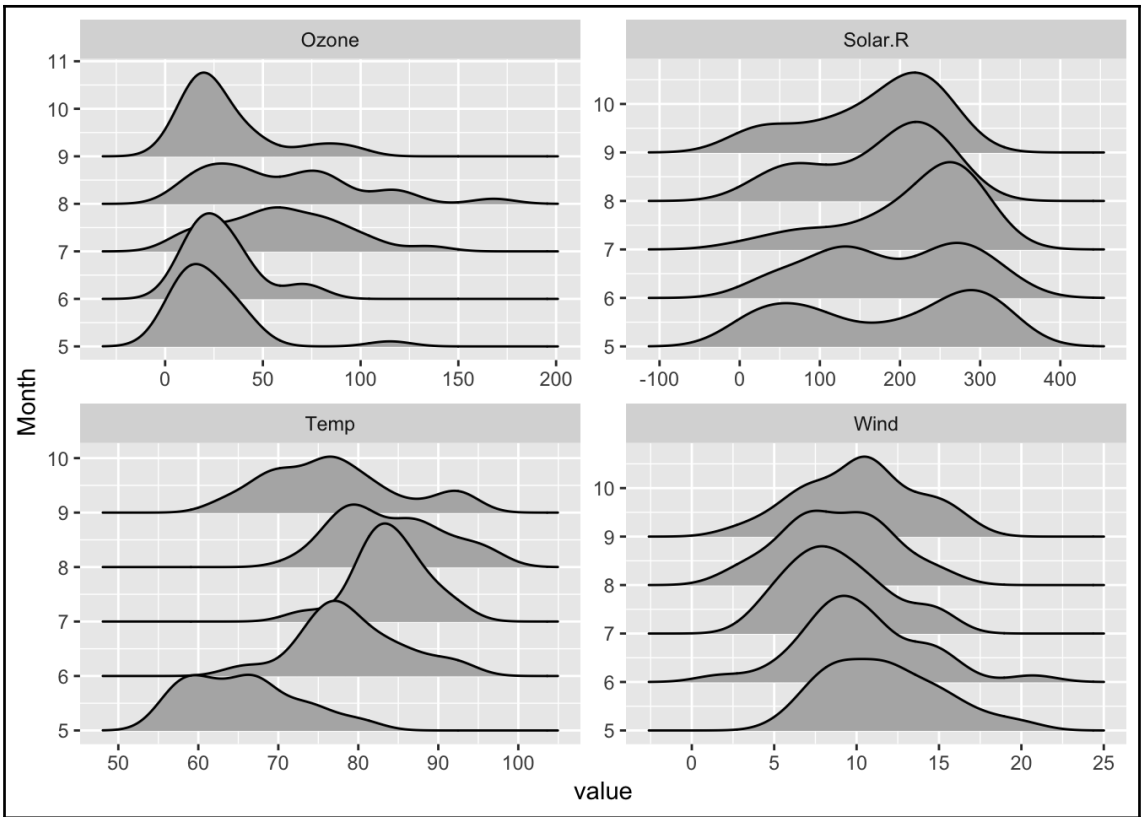


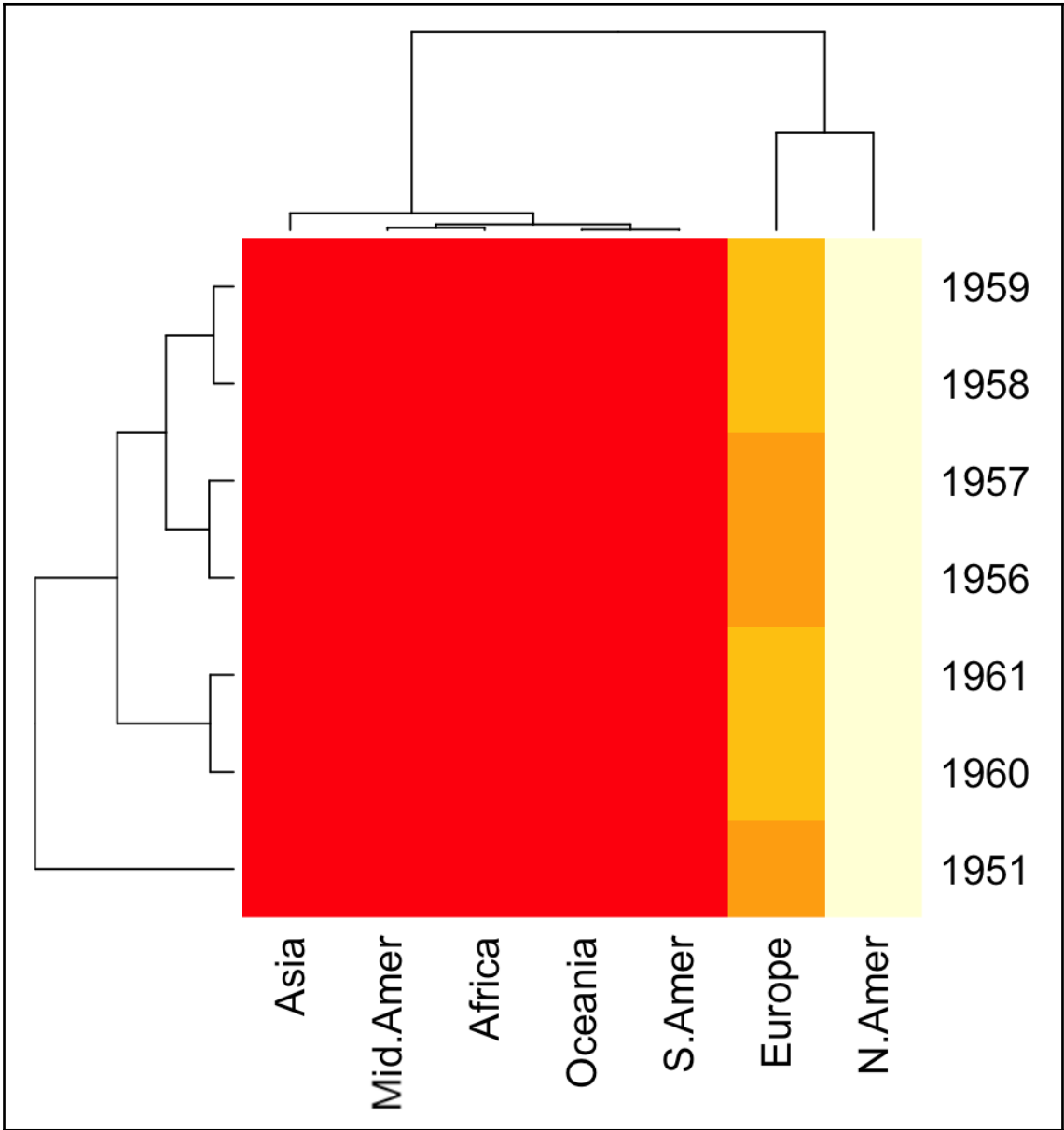


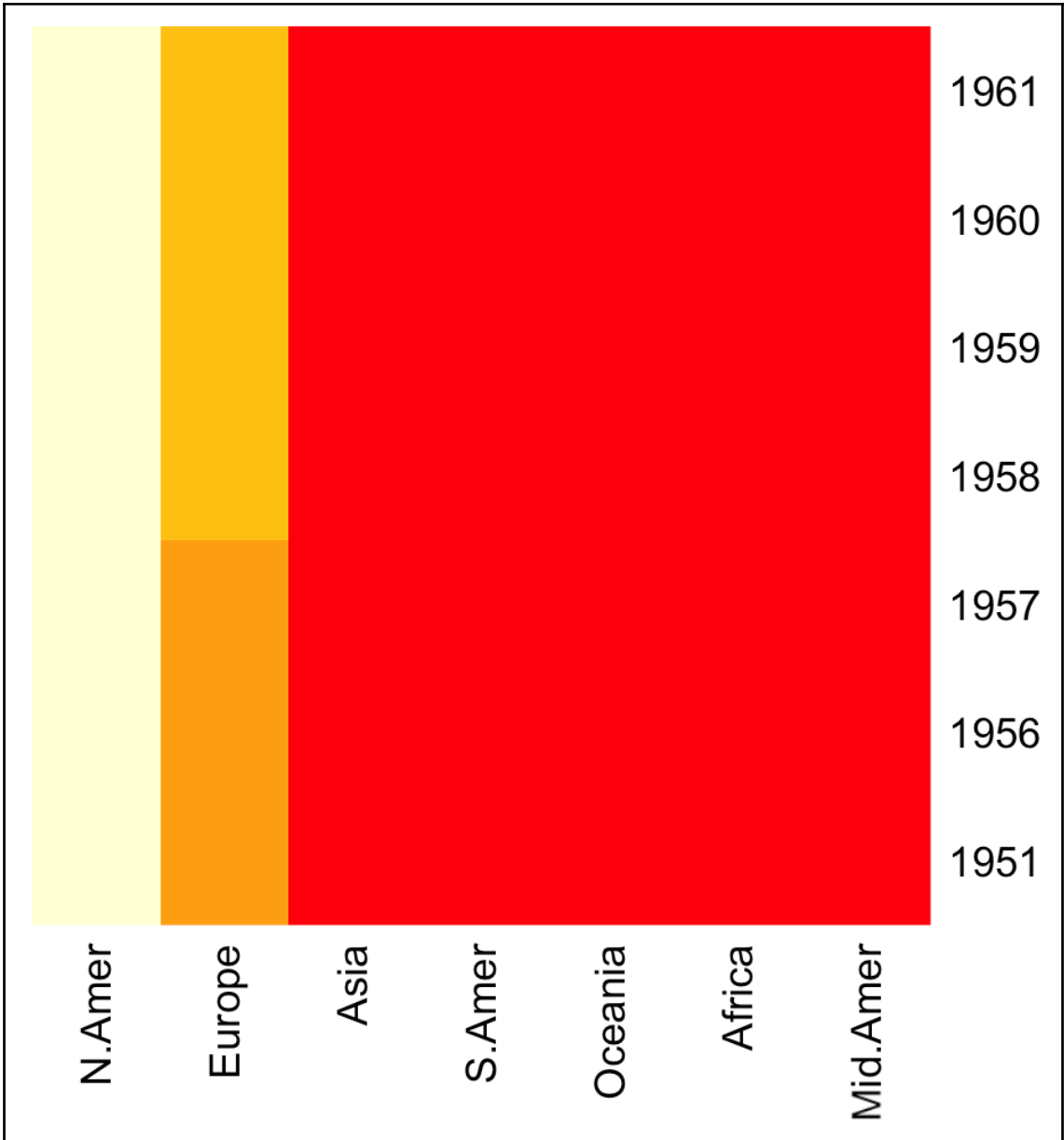
Chapter 7: Producing Publication and Web-Ready Visualizations

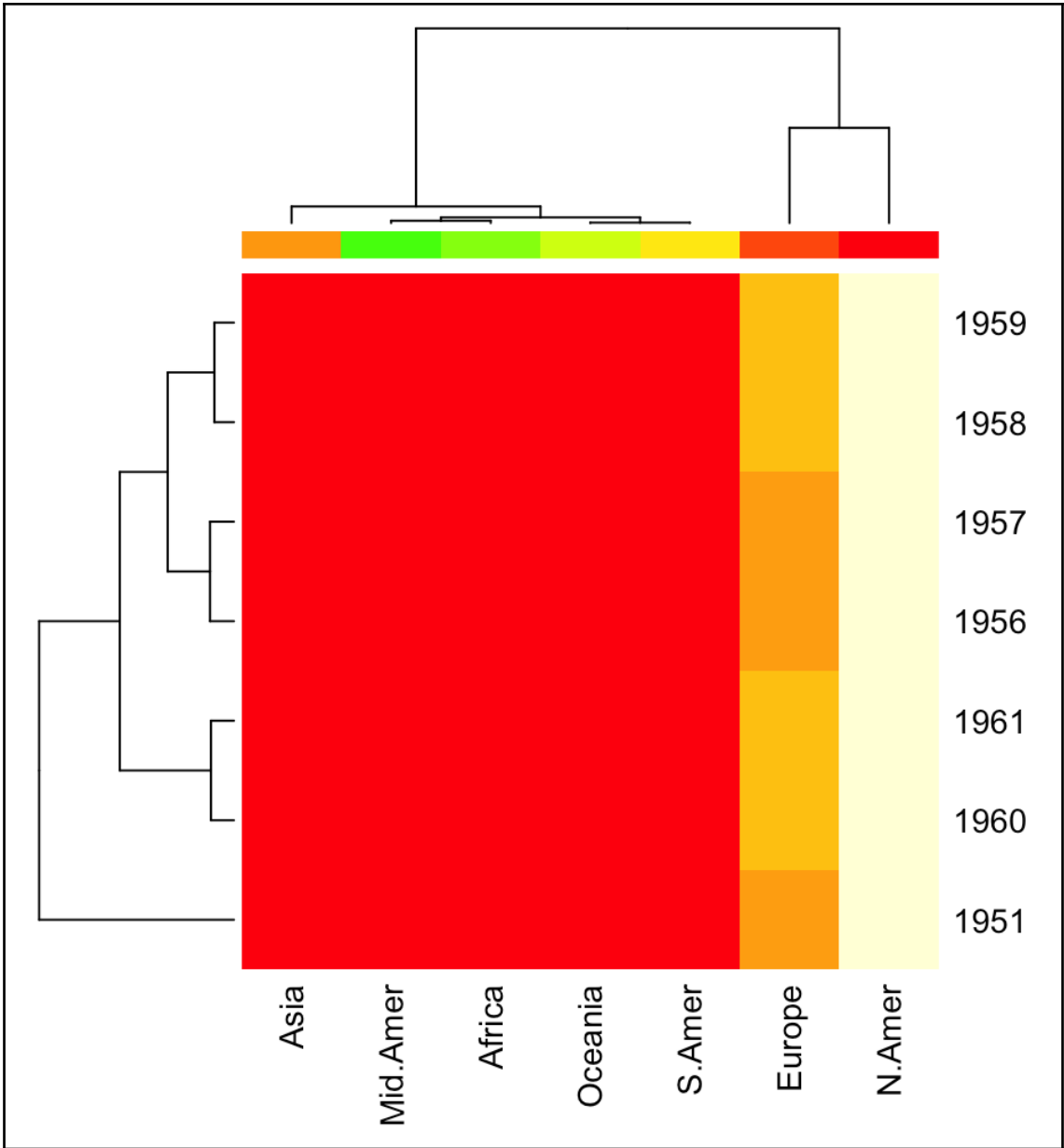


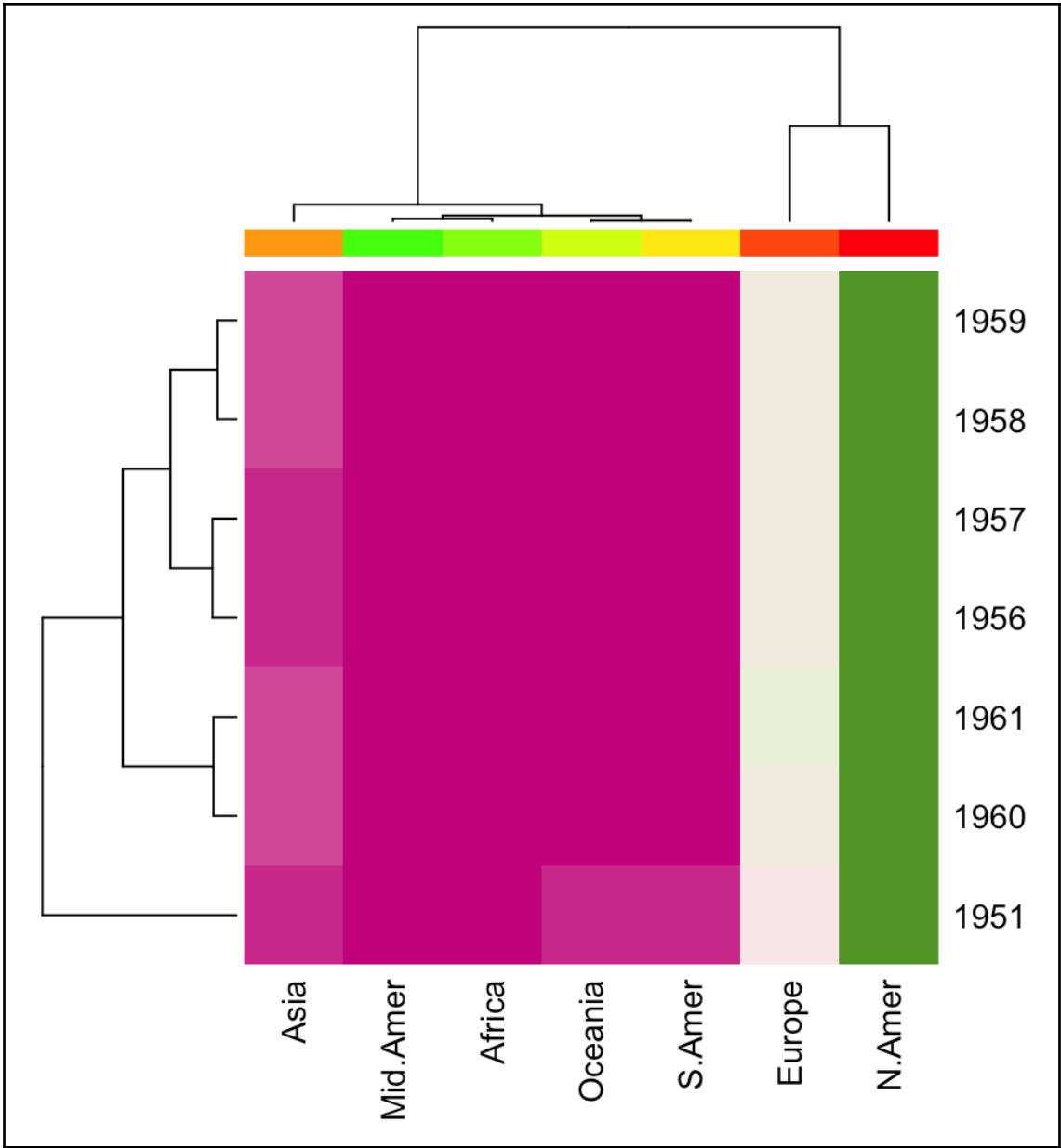


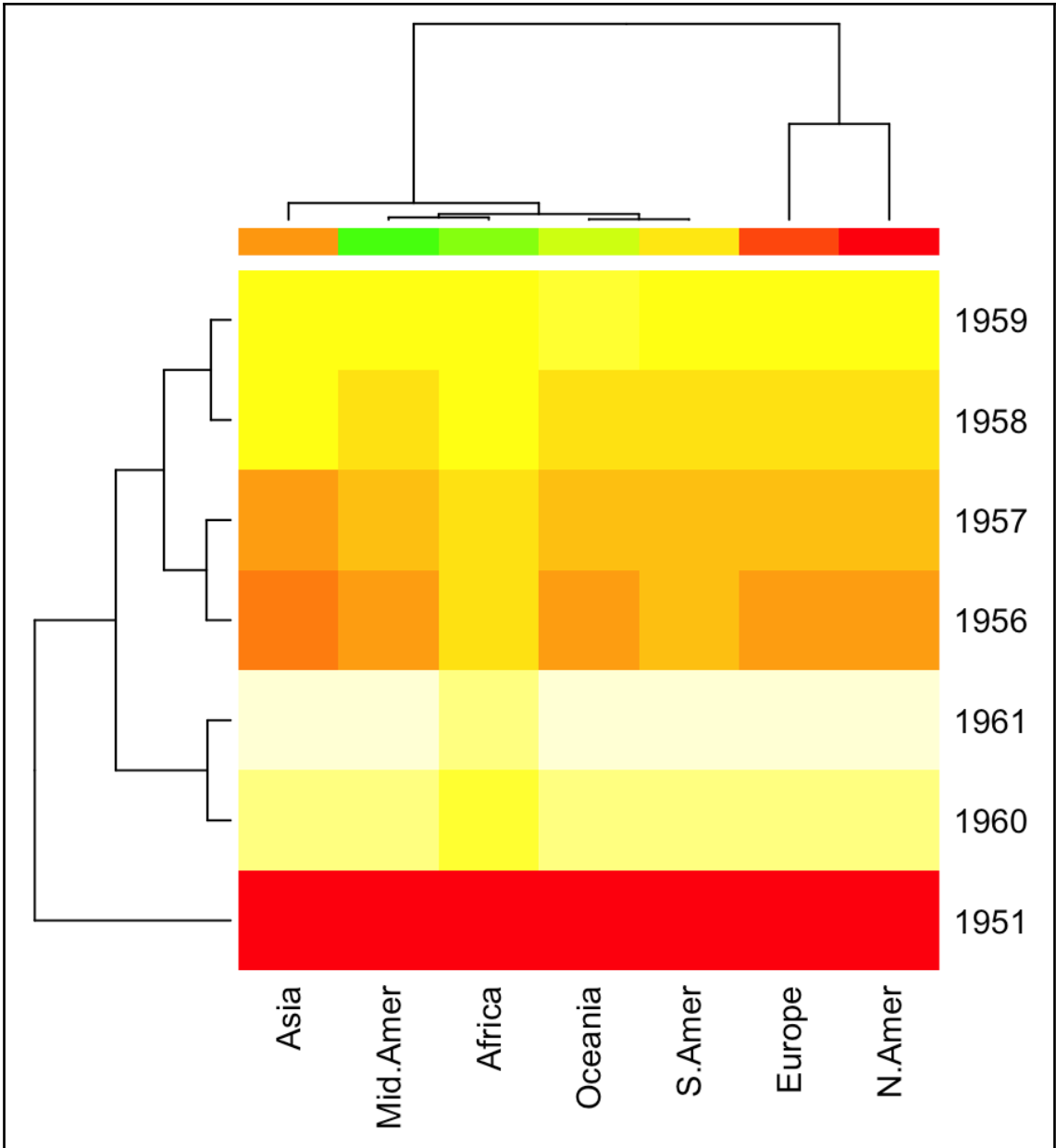


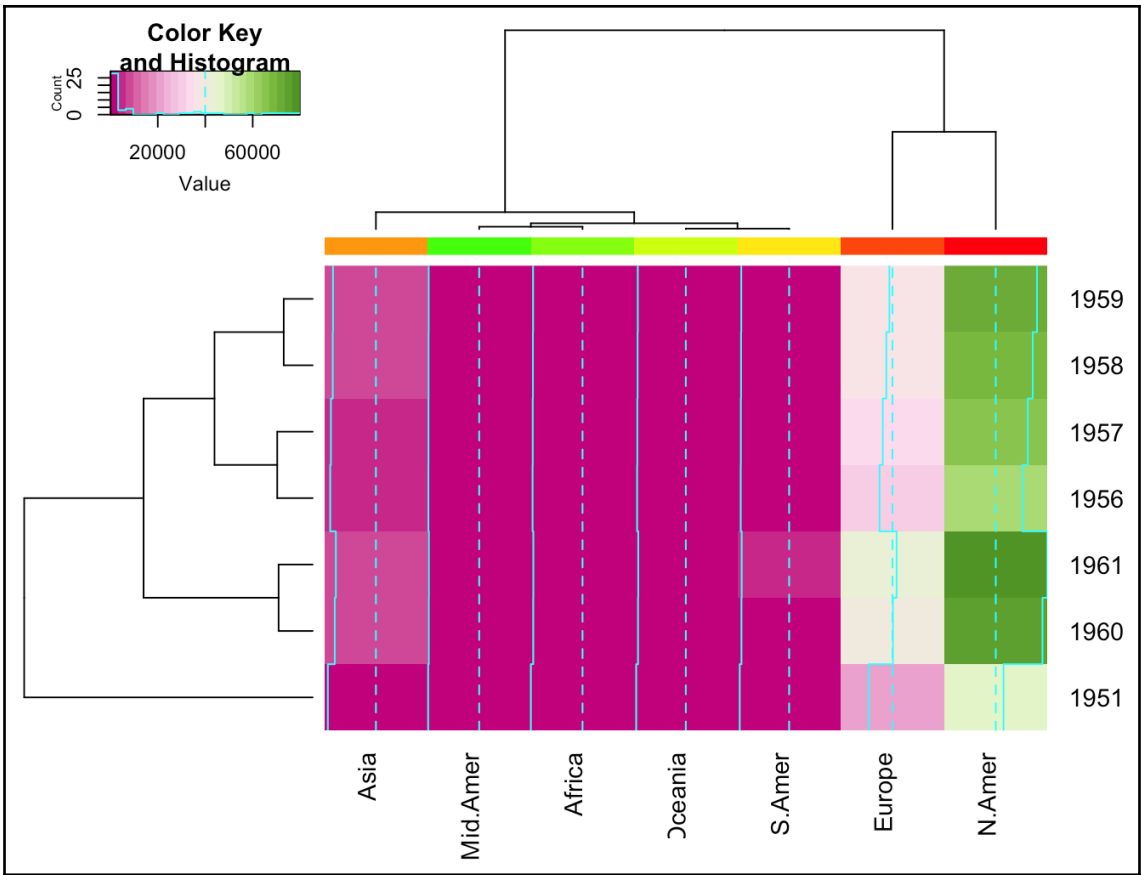


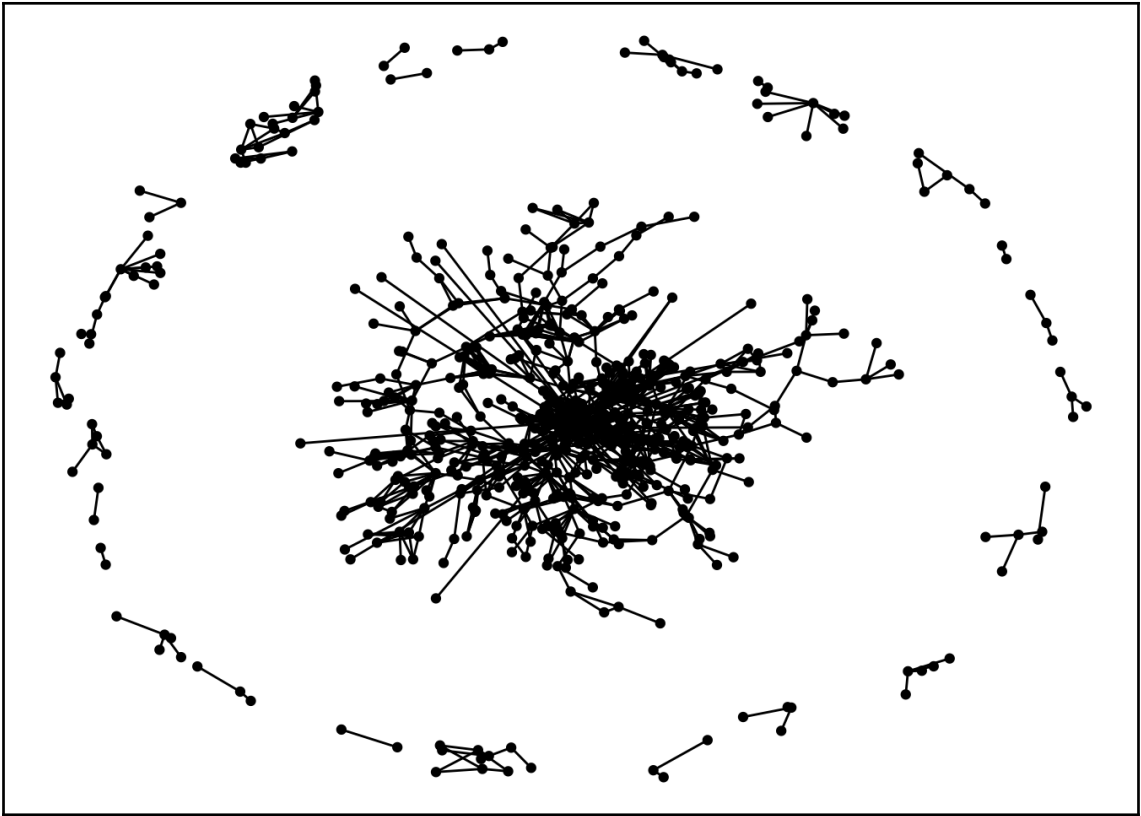


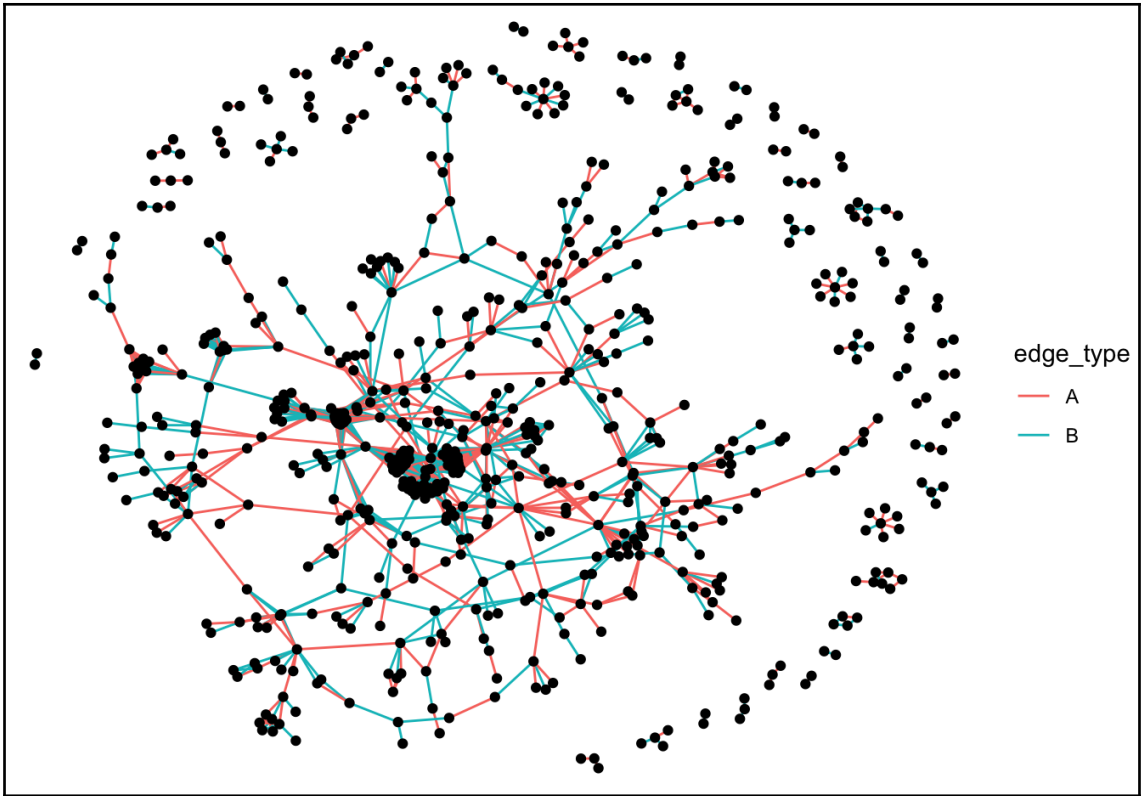


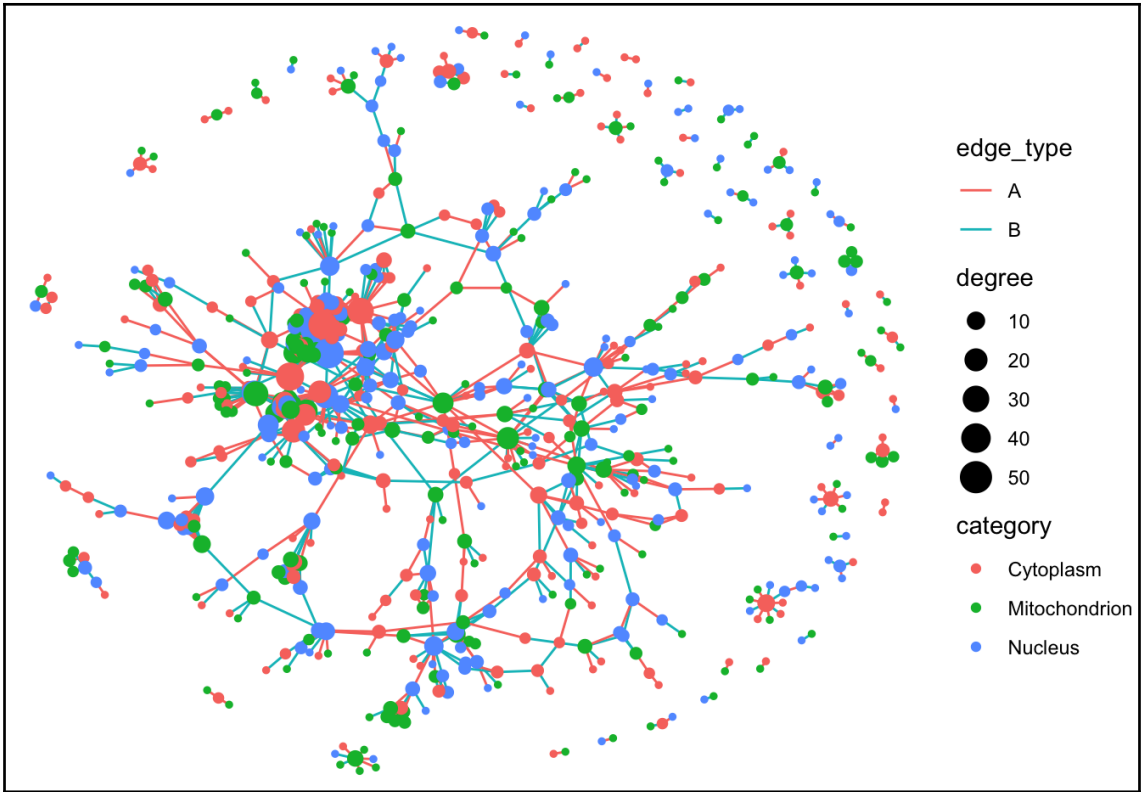


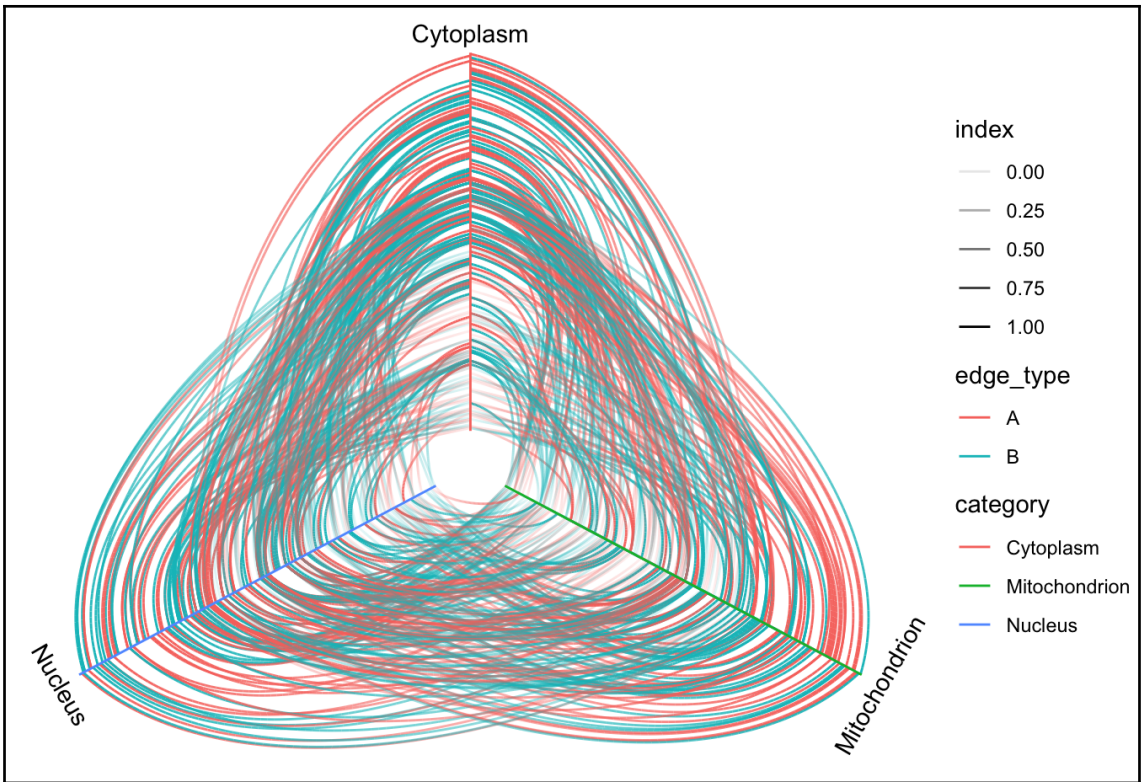


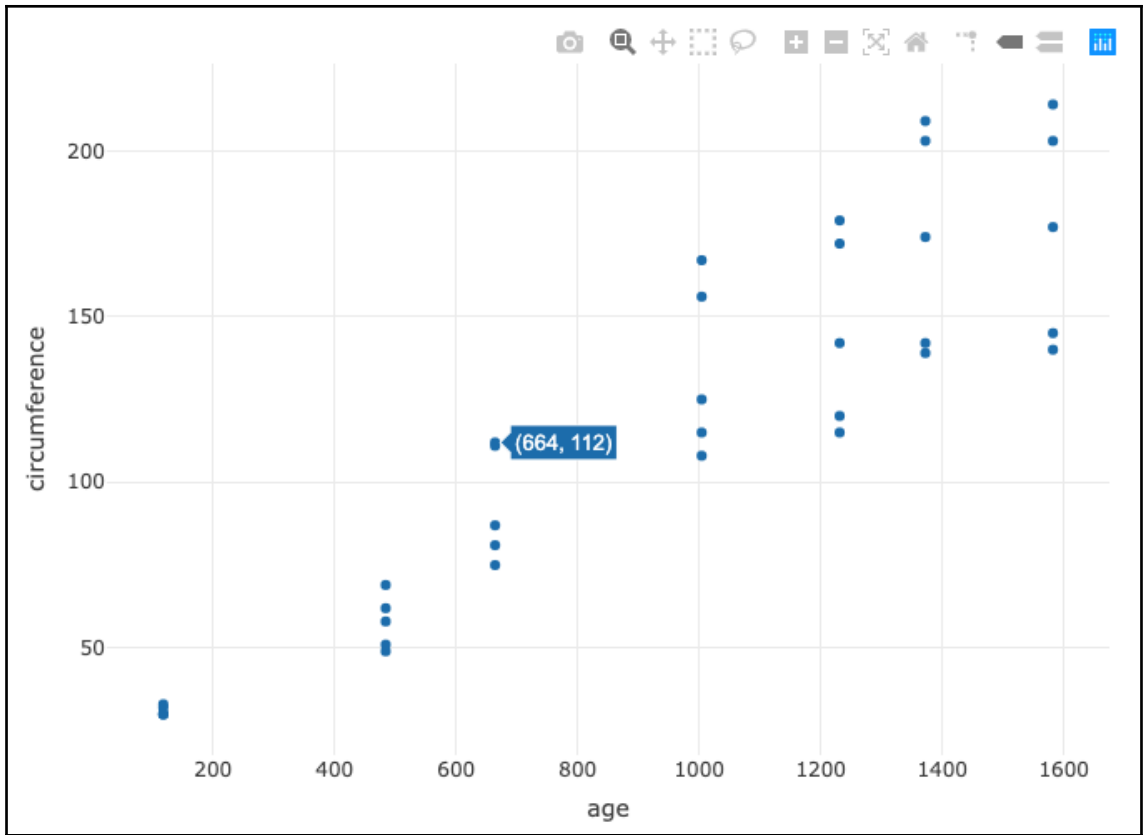


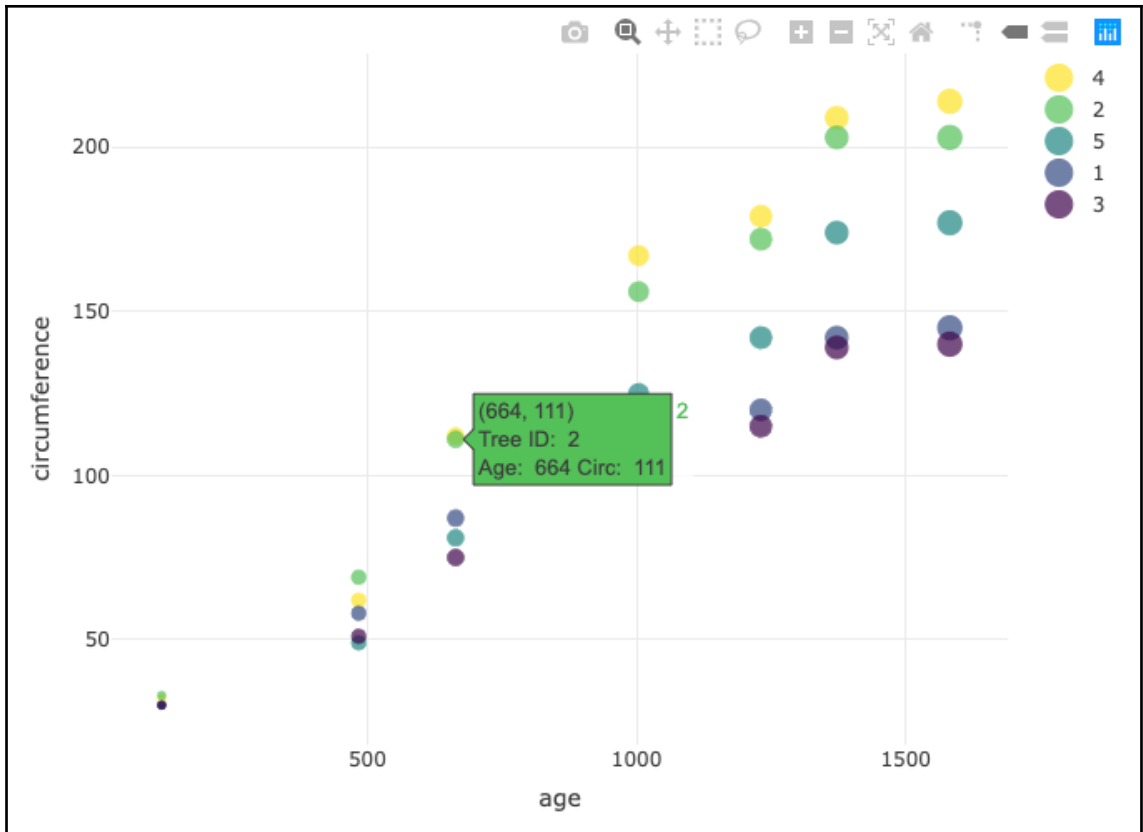




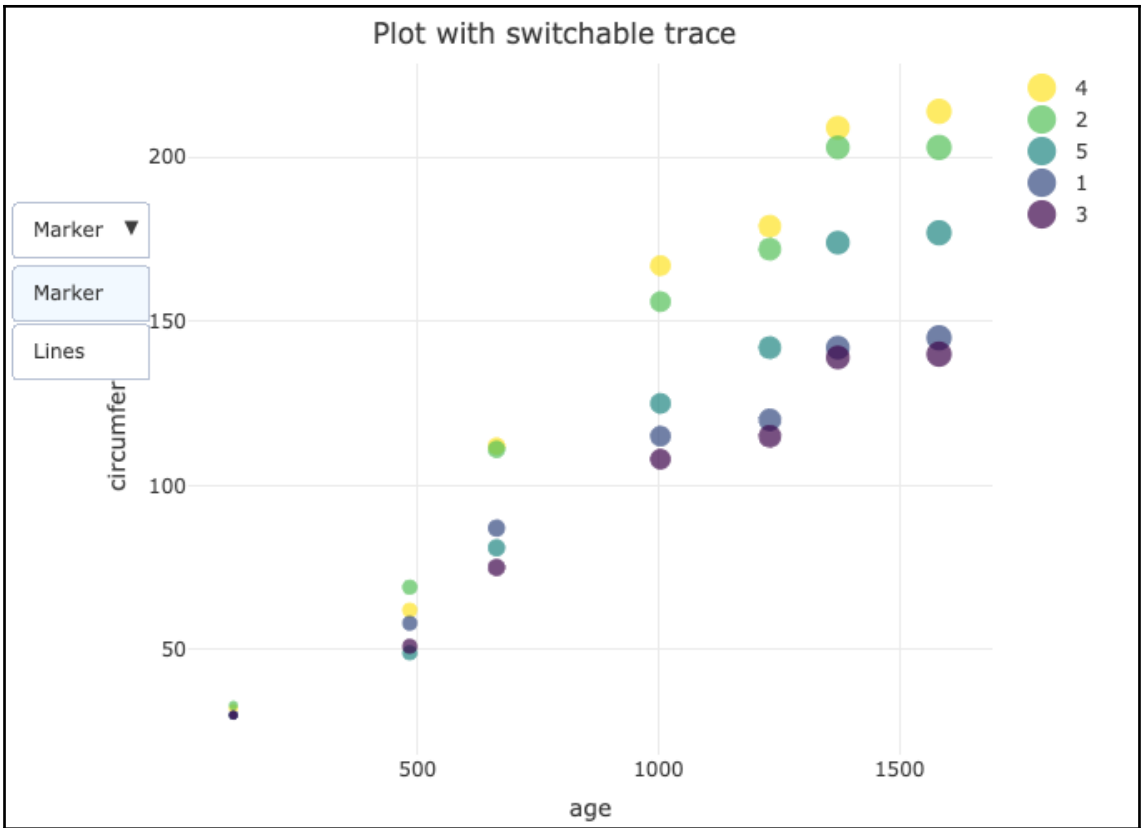


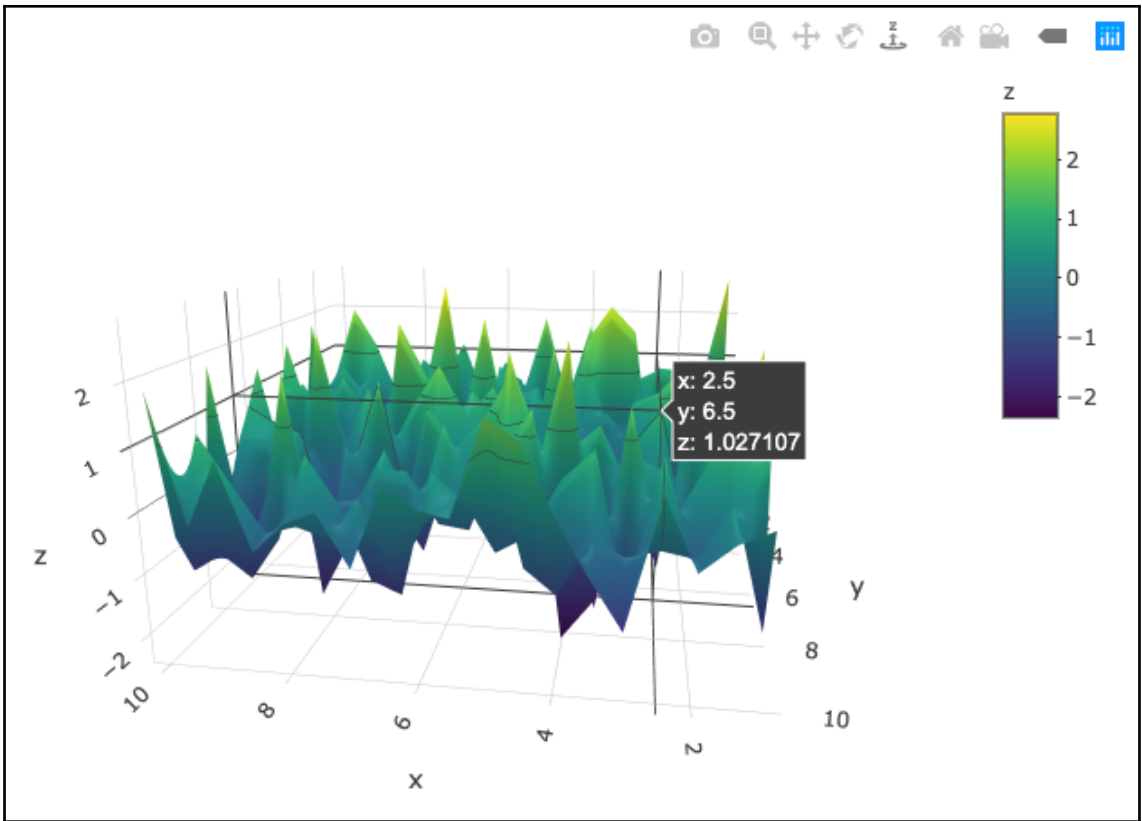


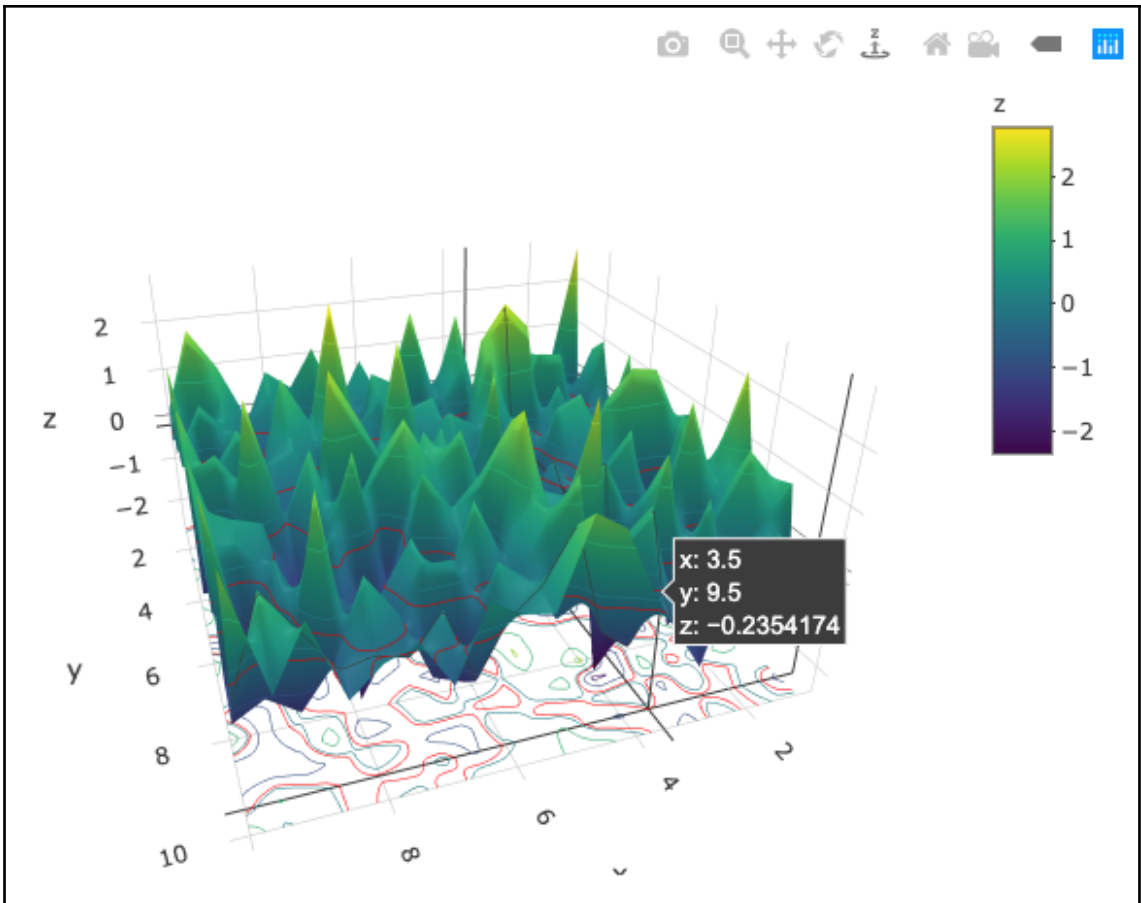


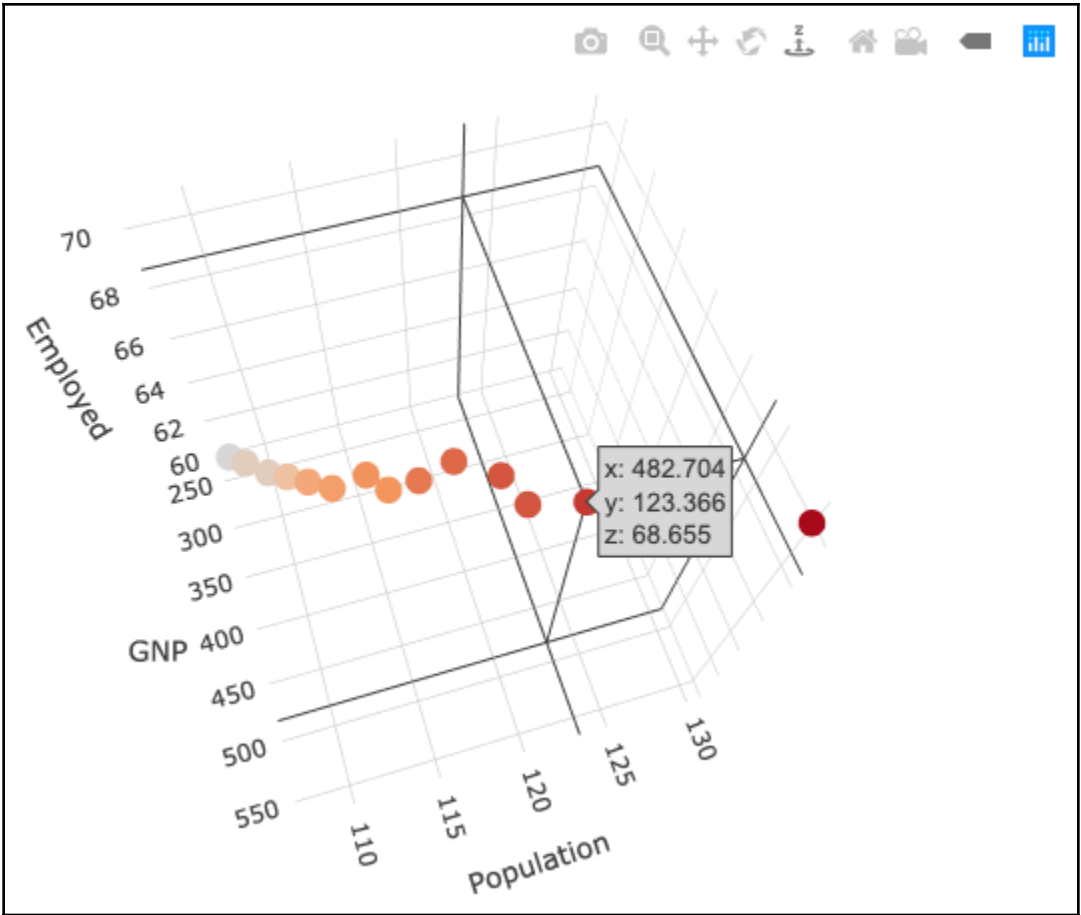


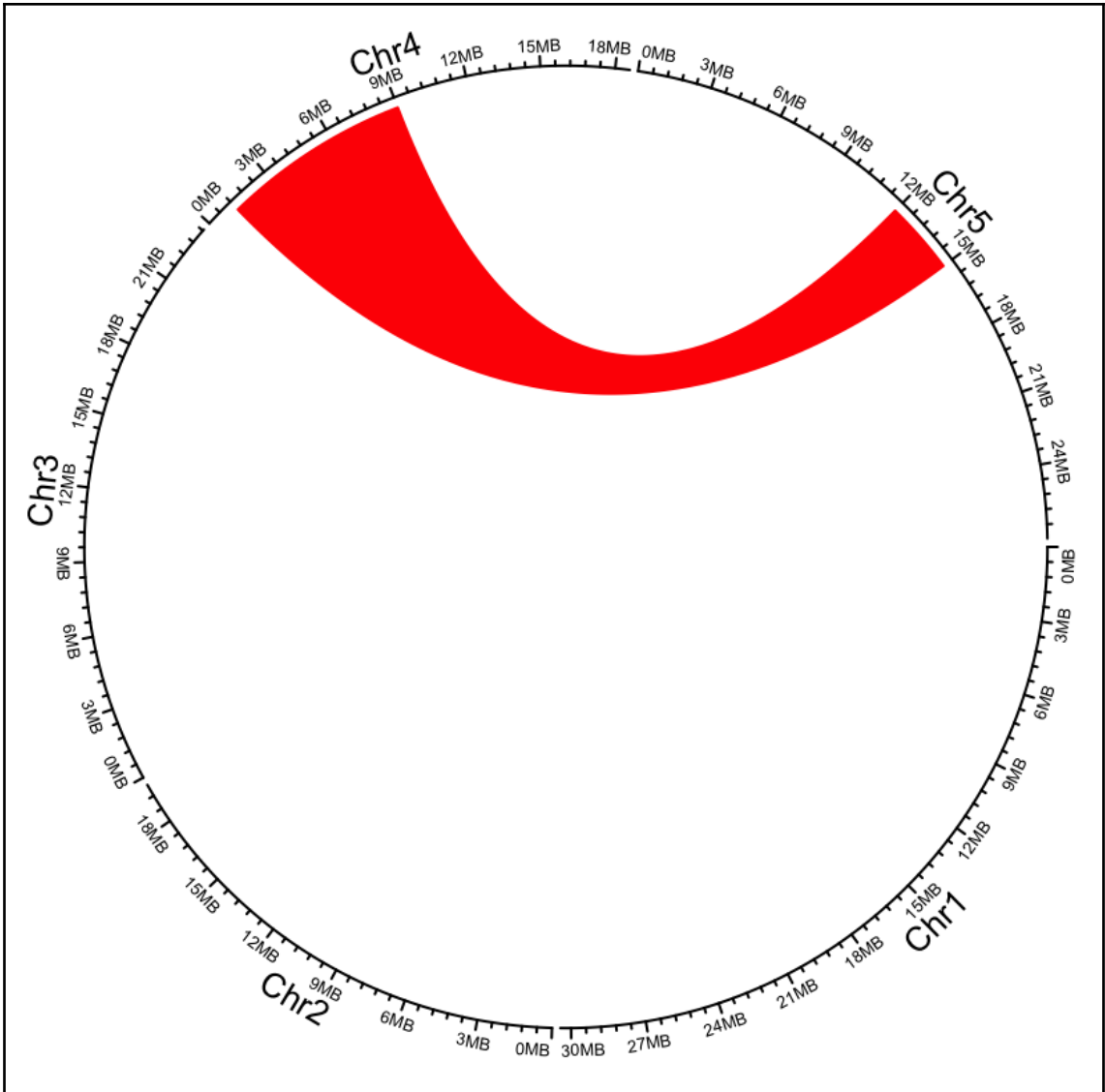


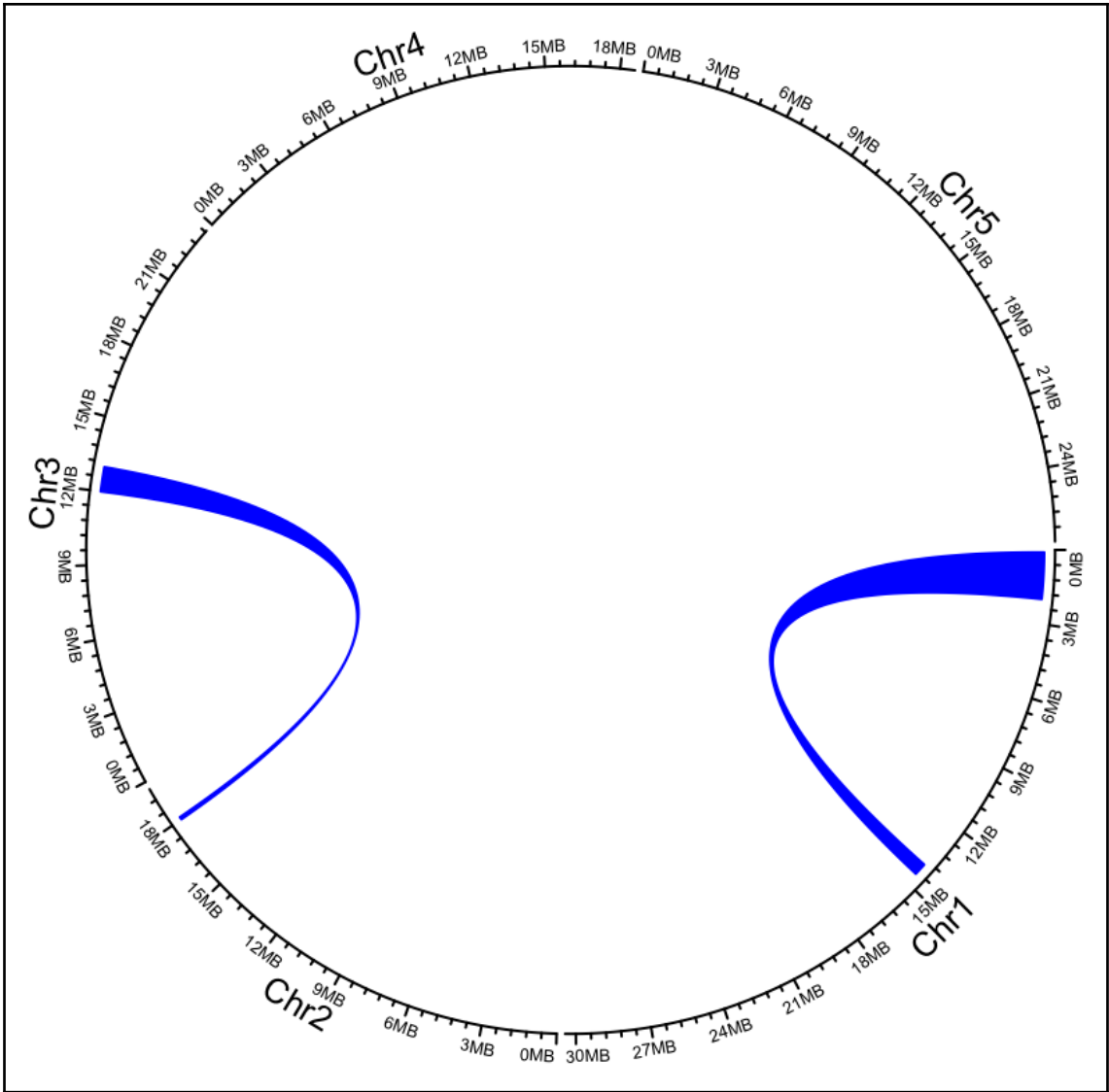


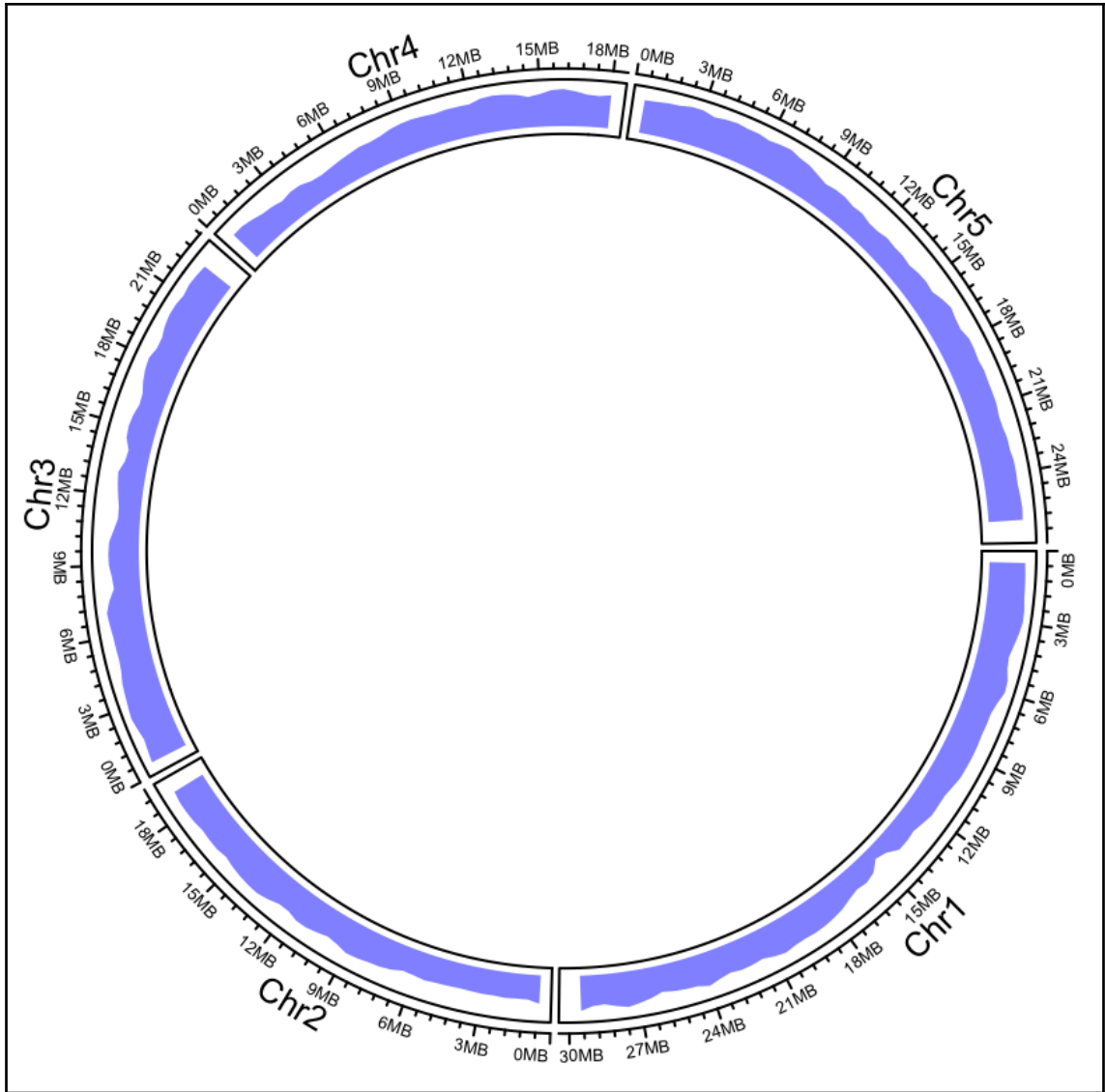


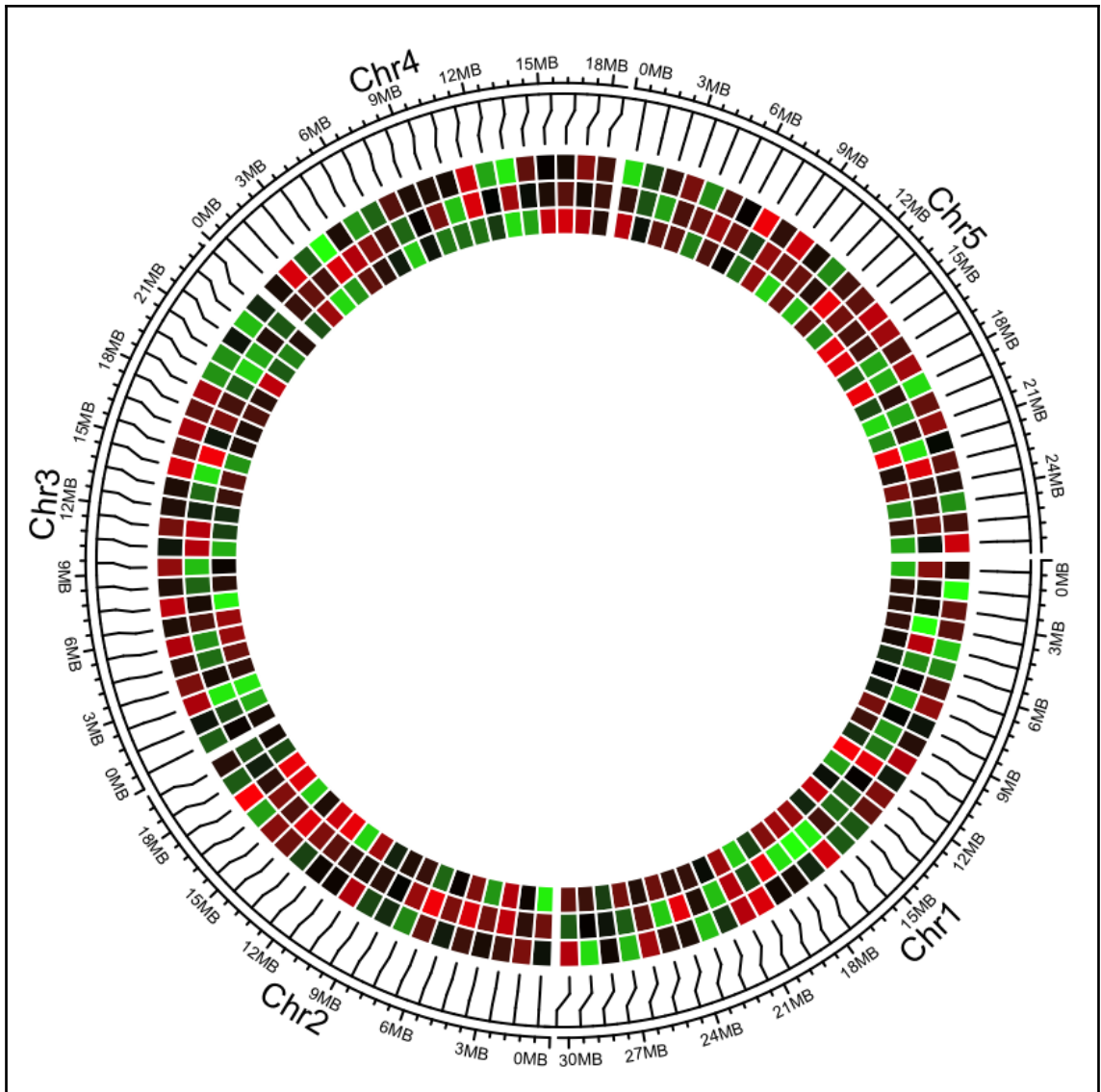


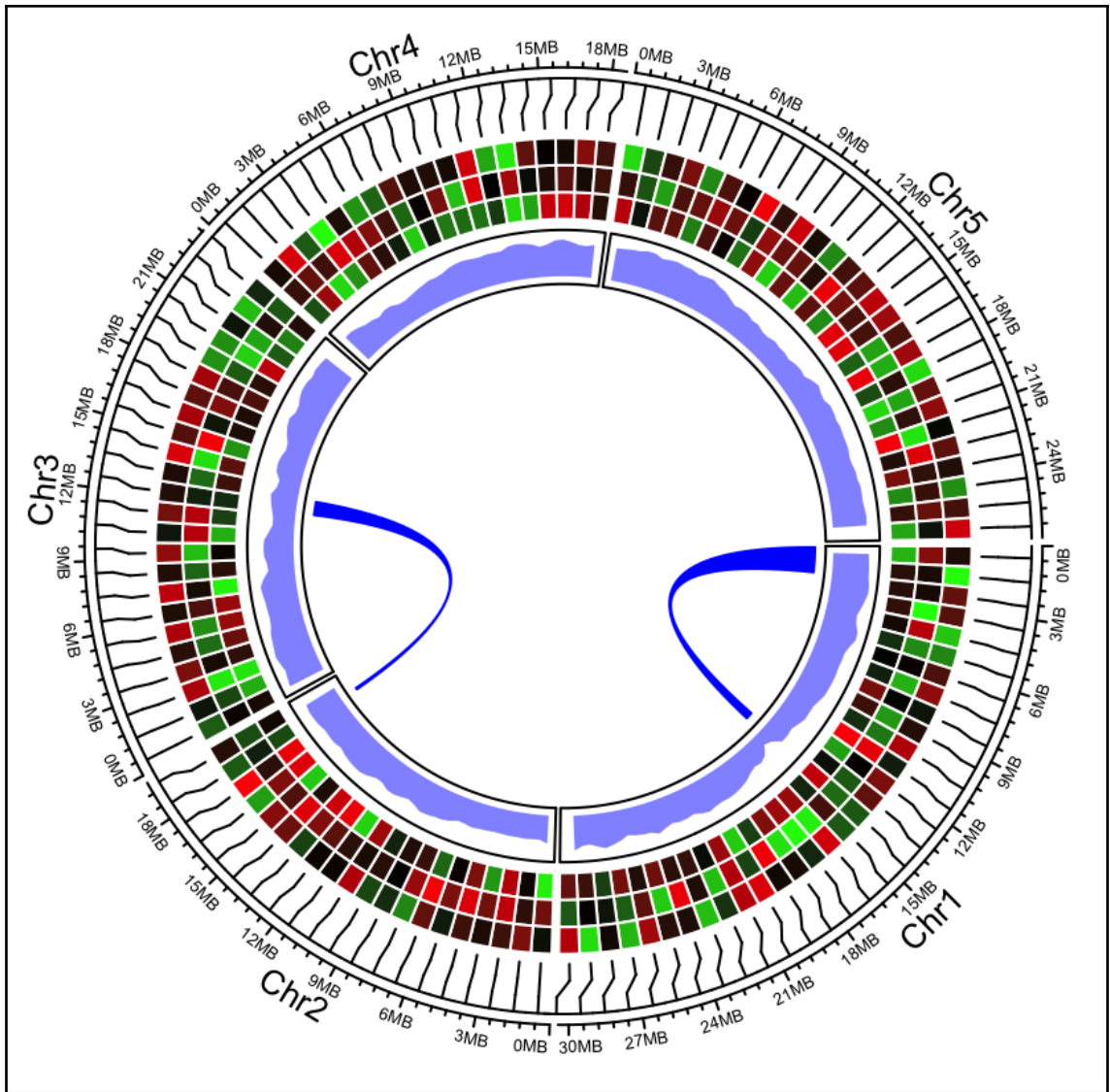




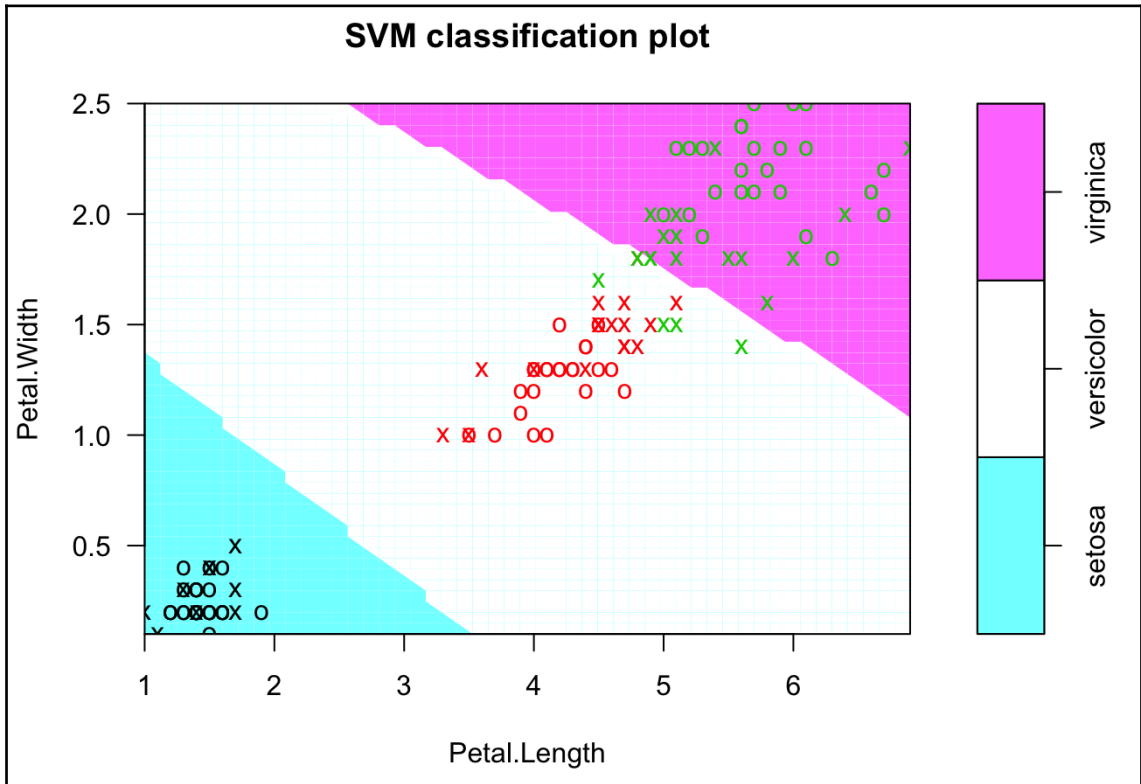


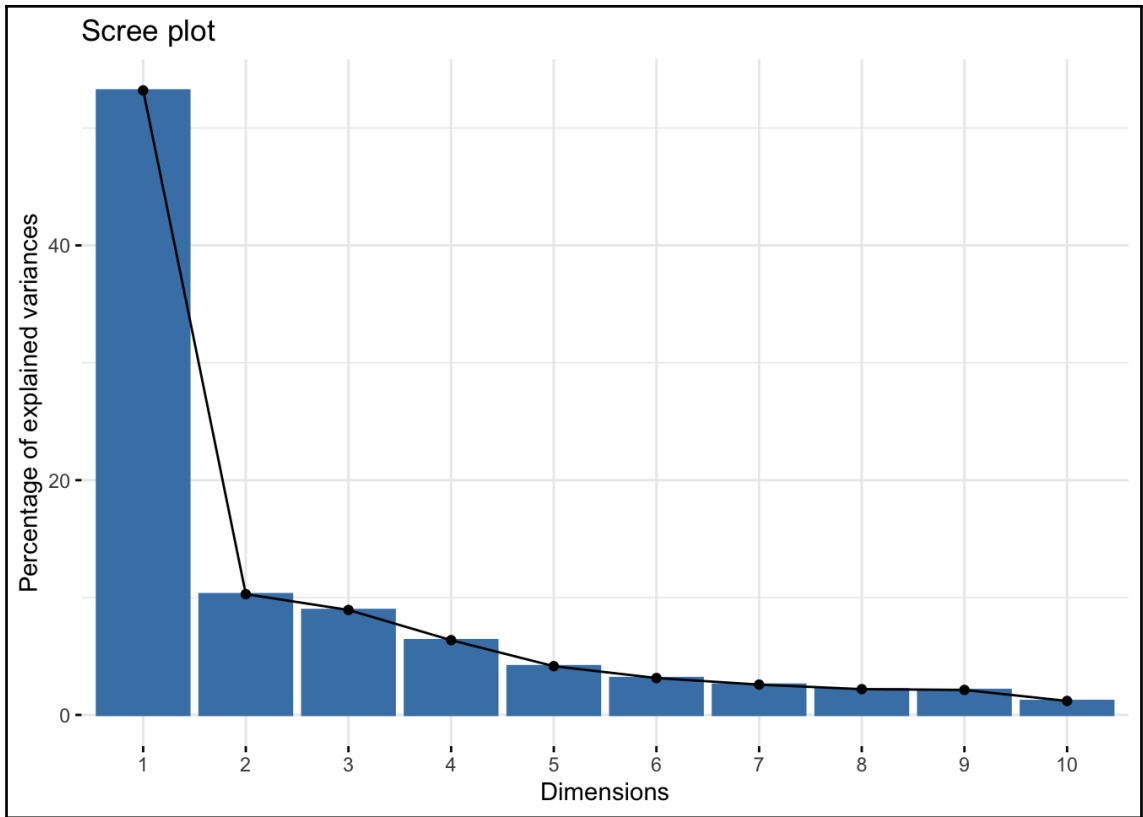


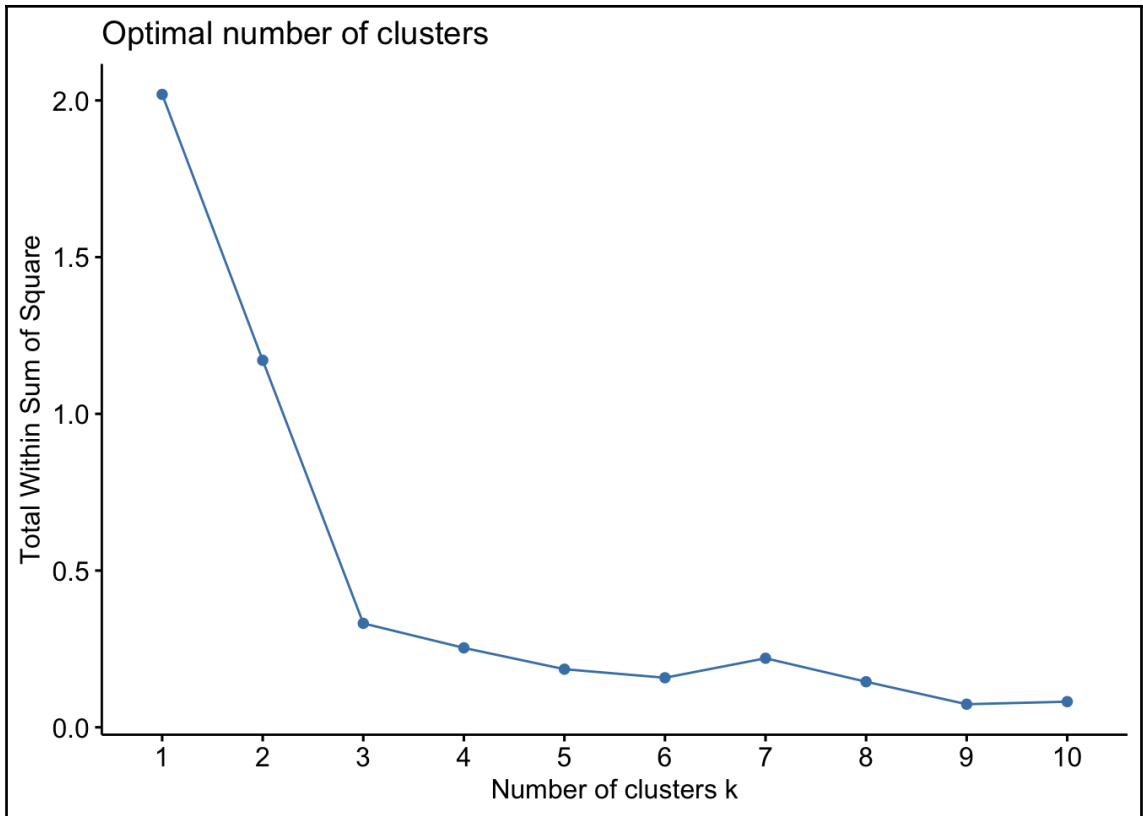


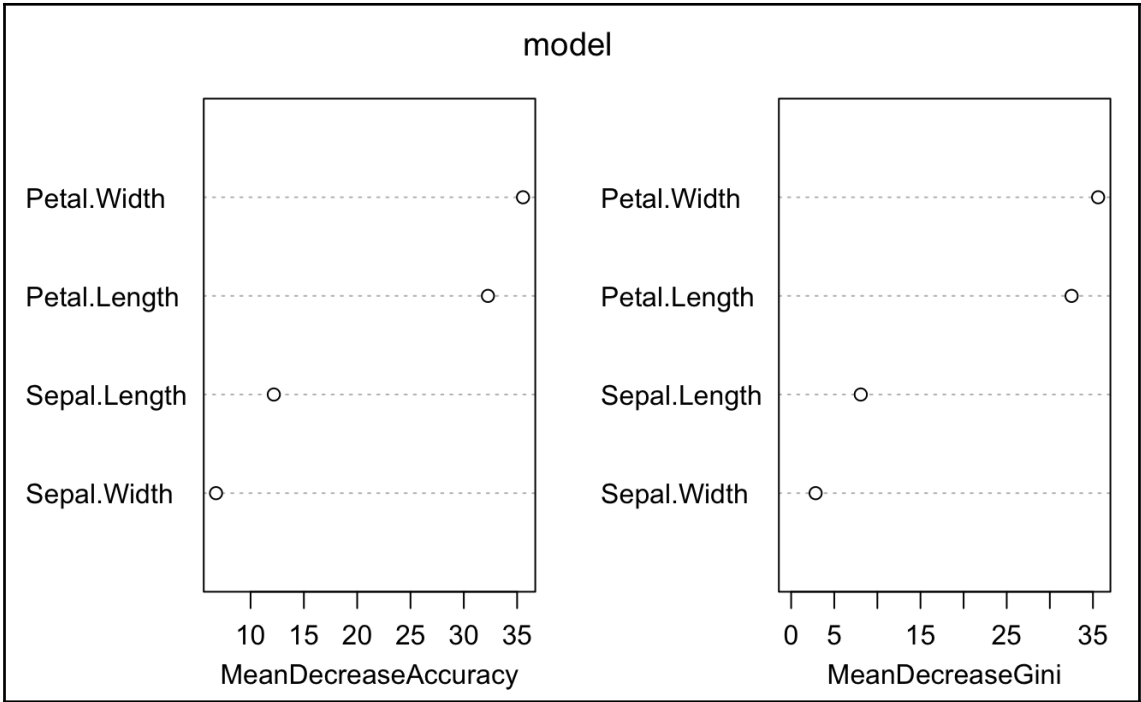


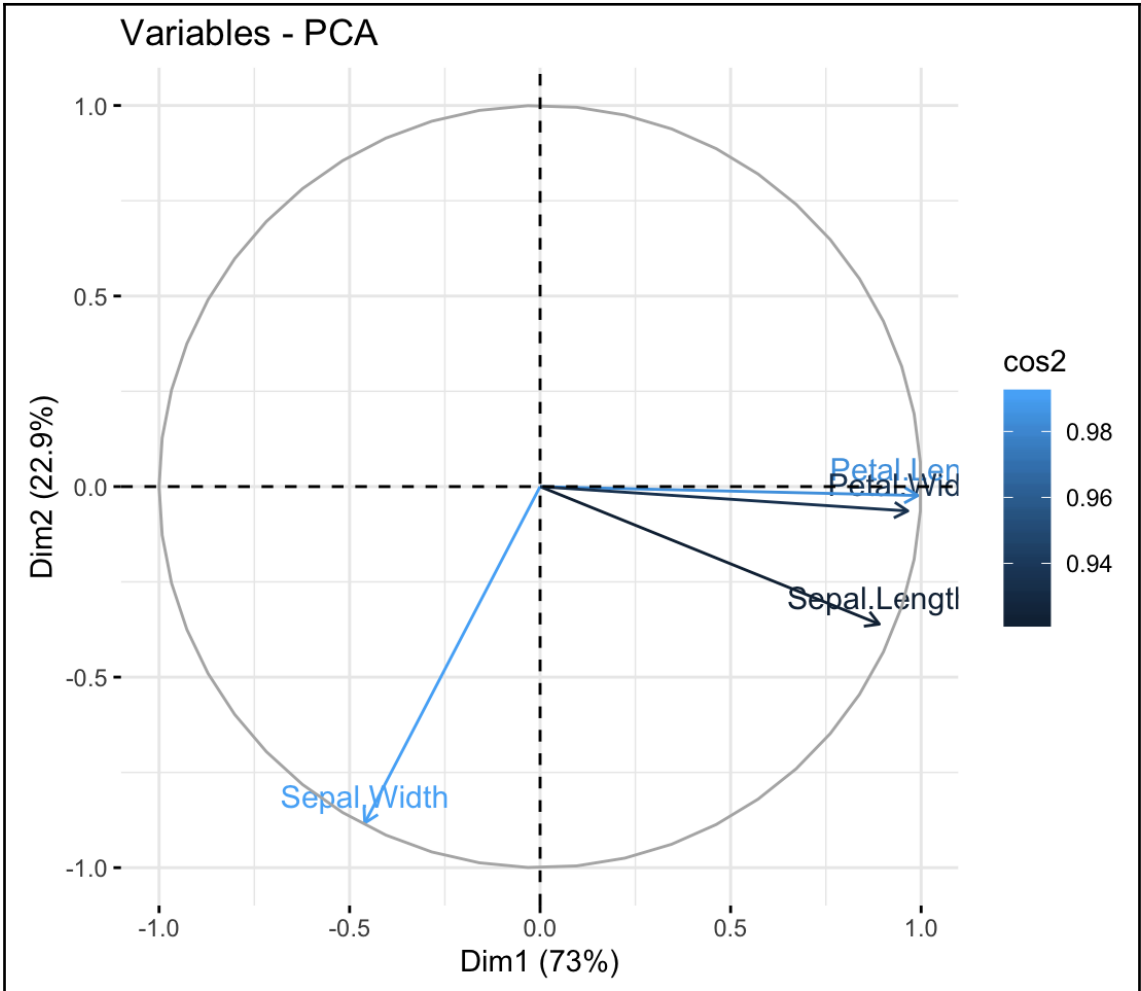
Chapter 9: Useful Statistical and Machine Learning Methods











Chapter 11: Building Objects and Packages for Code Reuse

