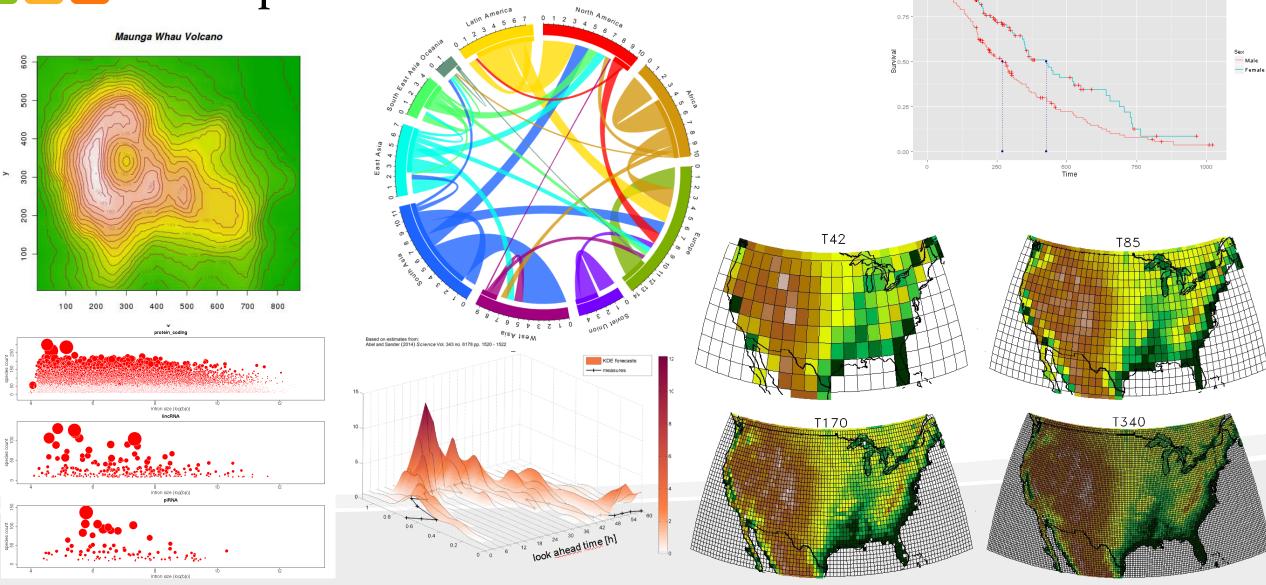




R is a powerful tool to visualise data



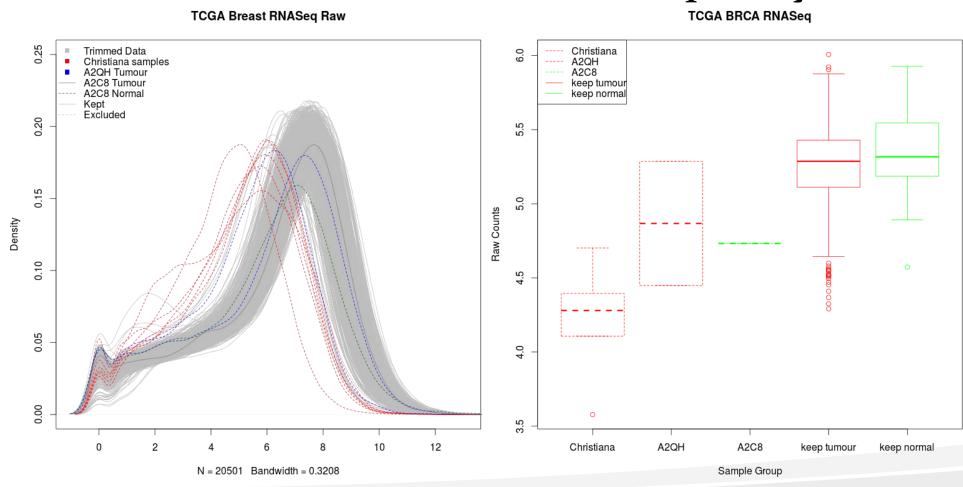


Visualising Data is Crucial to Research

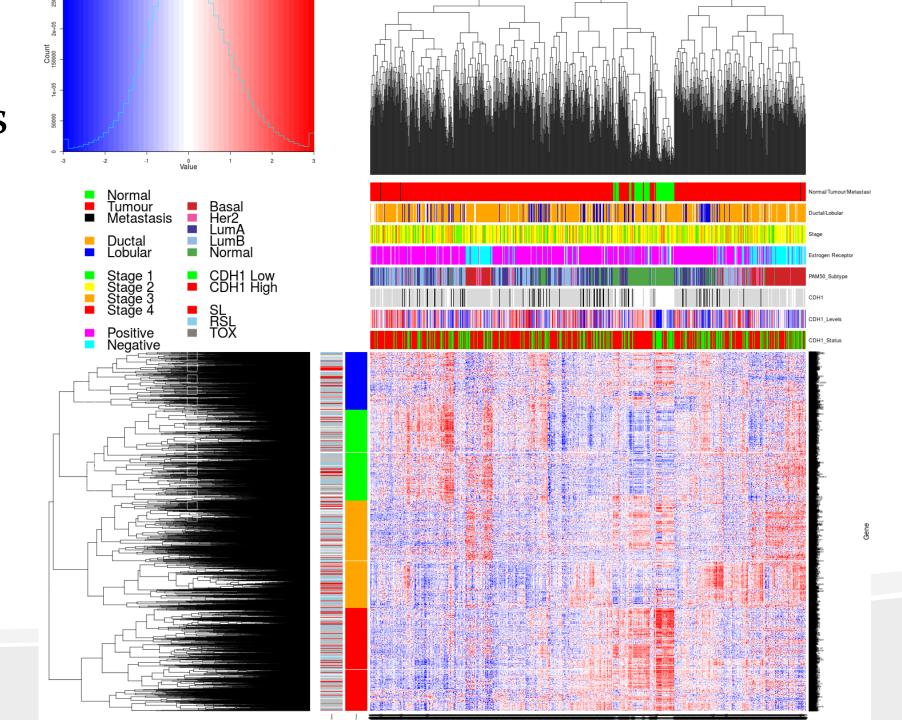
- Effective communication is essential in research
- It helps us do better research and make better papers / theses
- So think about it critically



Use Visualisation to check data quality



Heatmaps





Venn Diagrams

3525

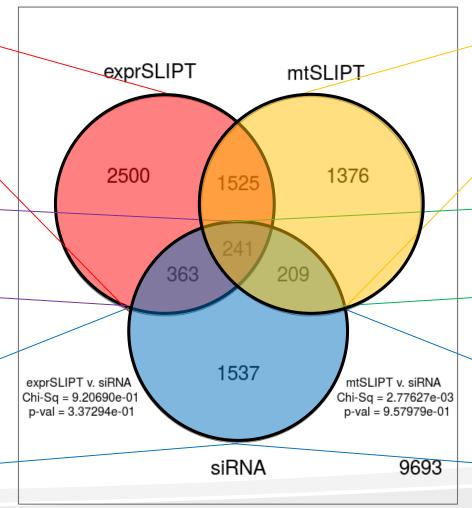
Translation, non-sense mediated decay, SRP-dependent co-trans, RNA metabo, Immune, IFNγ, TLR, Chemokine, Gα(i), TCR, PD-1

604

GPCR ligand binding, GPCR (A/1), Chemokines, peptide-ligand bind, $G\alpha(i)$, $G\alpha(q)$, Platelet activation, Homeostasis, GPCR (B/2), $G\alpha(z)$

1746

GPCR (A/1), GPCR ligand binding, $G\alpha(i)$, peptide-ligand bind, ion trans, $G\alpha(q)$, purine receptor, phospholipase C, PI₃K Cascade



2901

Translation, non-sense mediated decay, SRP dependent cotrans, RNA Metab, secondary messenger, TCR, ZAP70, IGF, CD3, PD-1

450

GPCR ligand bind, GPCR (A/1), NOTCH₄, Platelet activation, GPCR (B/2), Circadian clock, G α (i), G α (s), Growth hormone R

1900

GPCR (A/1), GPCR ligand bind, $G\alpha(i)$, peptide-ligand, $G\alpha(q)$, chemokines, Cyclin A/B1 (G2->M), GPCR (C/3), ion trans, Phospho C

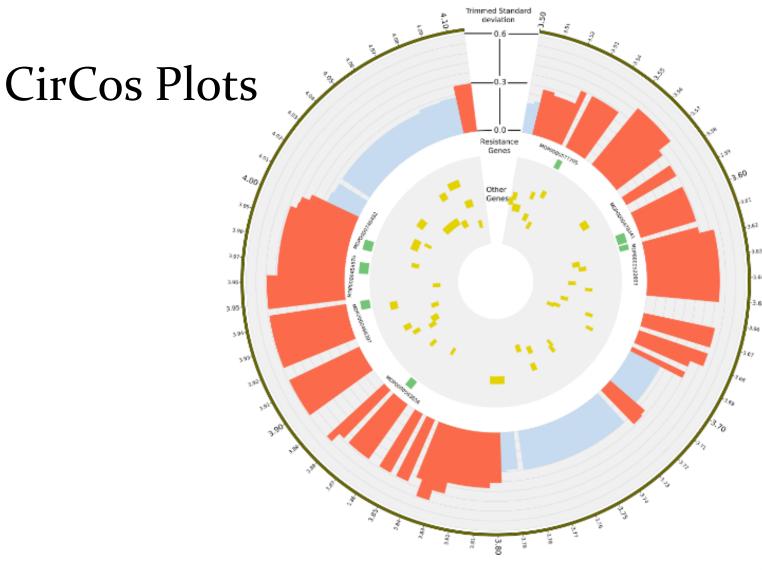


Figure 6. Circos plot displaying the copy-number variable regions (CNVRs), R genes, and genes in the region between positions 3,507,000 bp and 4,107,000 bp on apple chromosome 2.

Boocock et al. (2015)
BMC Genomics

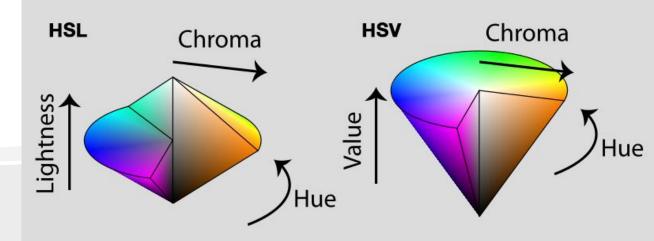
Facebook Map

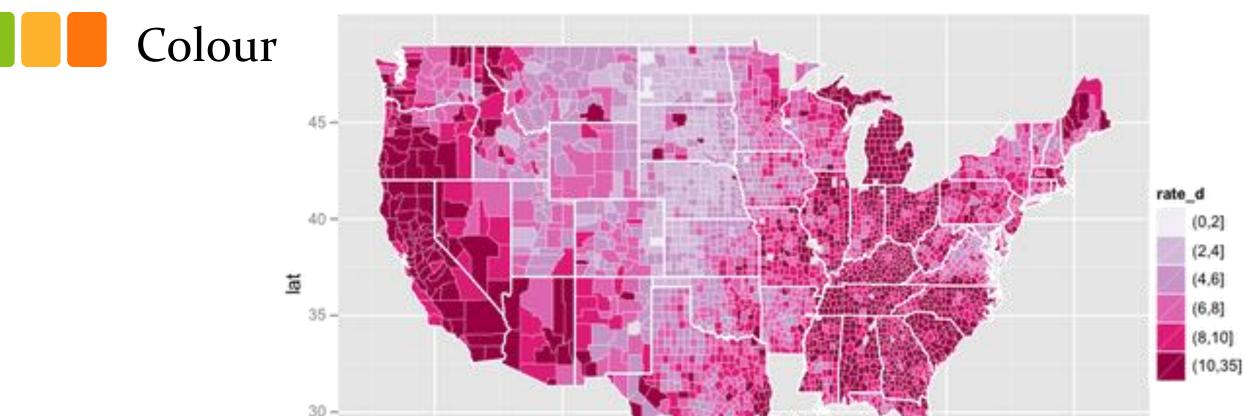


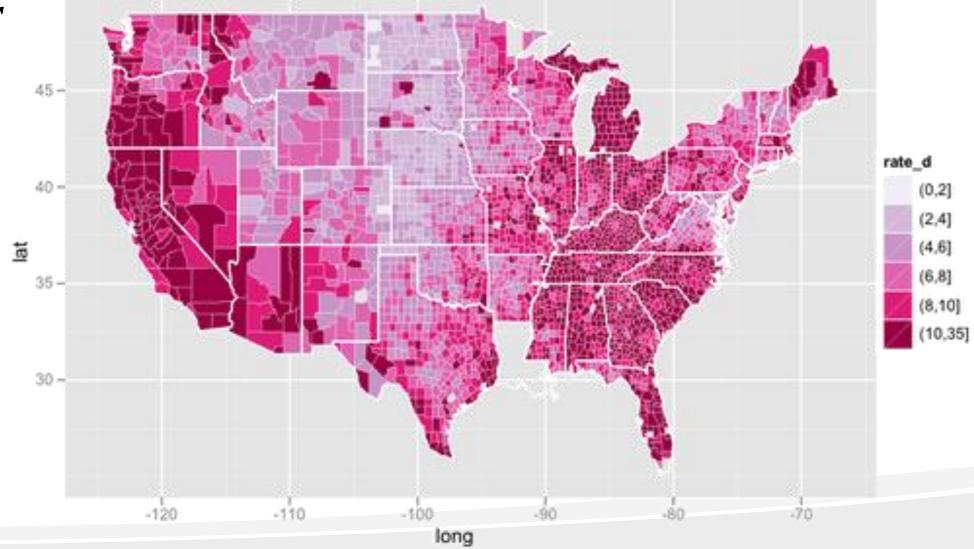


- Colour Palettes:
 - Brewer Colours are based on perception research and colourblind-friendly
 - RColorBrewer package
- https://www.nceas.ucsb.edu /~frazier/RSpatialGuides/co lorPaletteCheatsheet.pdf
- http://colorbrewer2.org/











Visualising Data – Key Points

