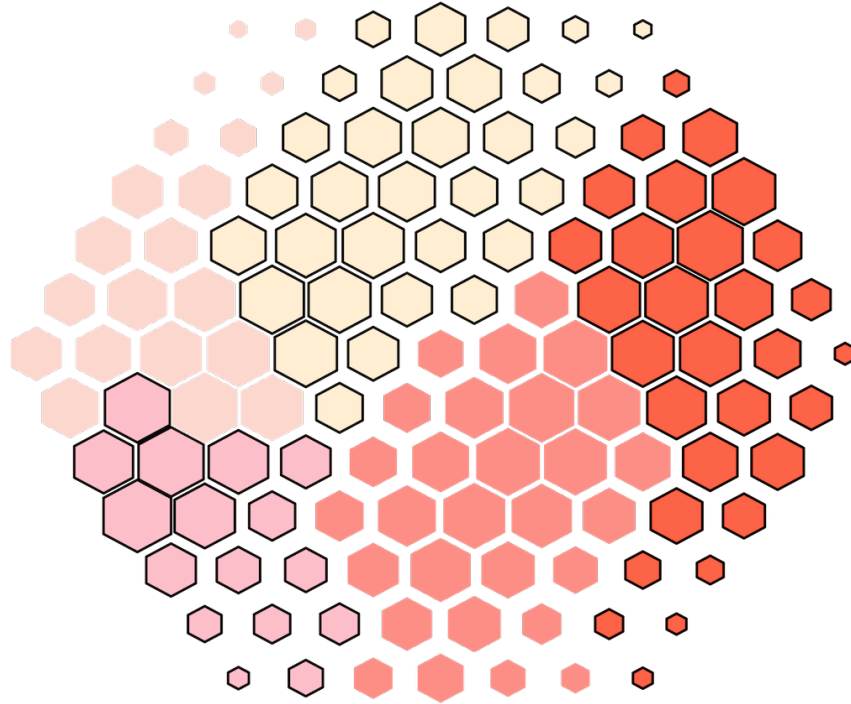


## The Best Artwork Award in ISMB 2014

### supraHex



This artwork called ‘supraHex’ is inspired by the prevalence of natural objects such as a honeycomb or at Giant’s Causeway. *supraHex* has architectural design of a **supra-hexagonal** map: symmetric beauty around the center, from which smaller hexagons radiate circularly outwards. In addition to this architectural layout, *supraHex* also captures mechanistic nature of these objects: formation in a self-organising manner. For this, *supraHex* is able to self-organise the input data (eg transcriptome data). In doing so, genes with similar data patterns are clustered to the same or nearby nodes (hexagons). The map distance (the hexagon size) tells how far each node is away from its neighbors, thus characterising relationships between clustered genes. *supraHex* is also able to partition the map to obtain gene meta-clusters covering continuous regions, as colour-coded by the ‘potato-peach-tomato’ colormap. This artwork is generated by an open-source R/Bioconductor package ‘supraHex’ (<http://supfam.org/supraHex>).