

# Version 1.0: functionality summary

Developer: Maria Secrier

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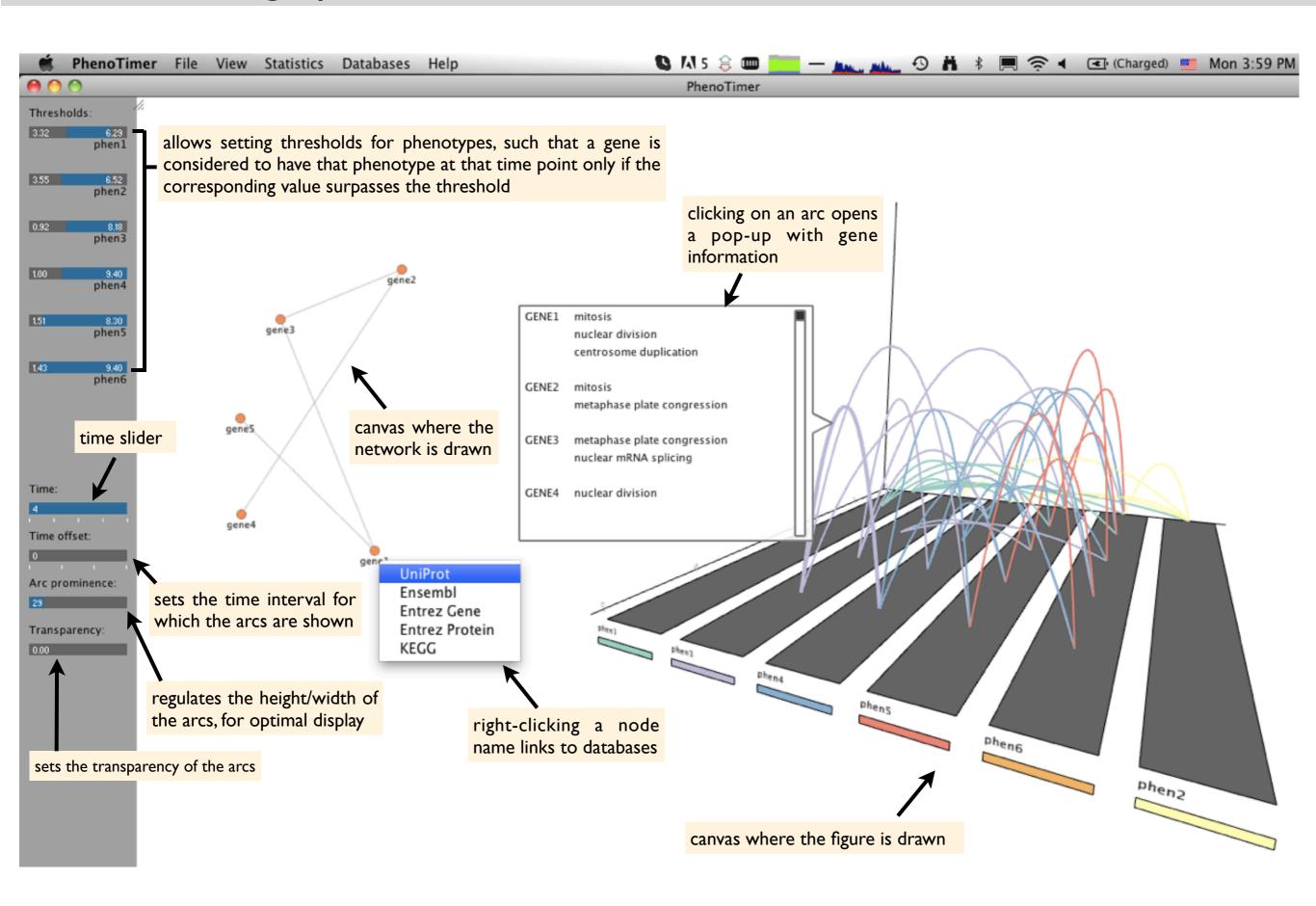
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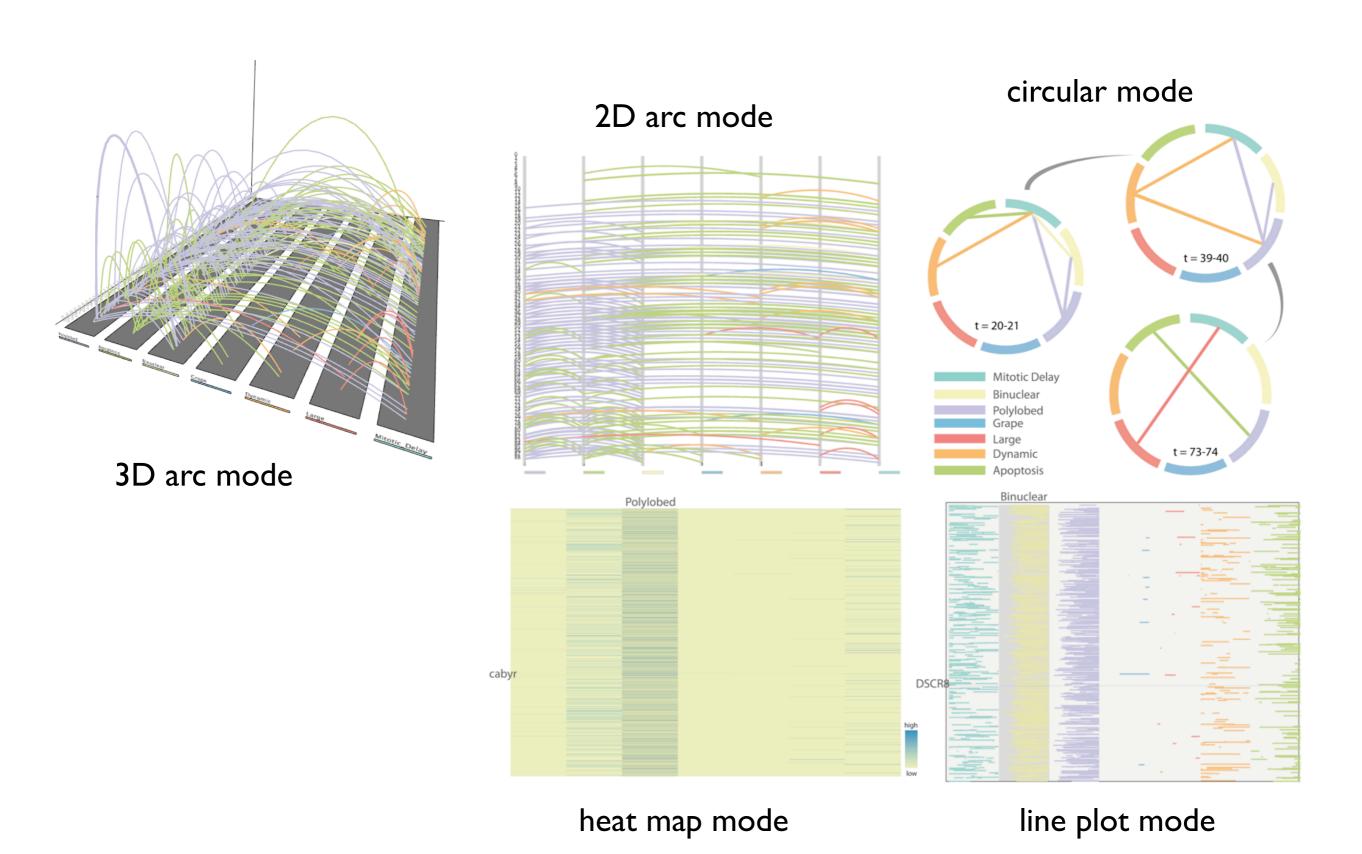


The tool enables loading files with gene expression values or other measurements for different phenotypes/pathways, then displays phenotypes that have common genes above threshold levels as arcs. Gene Ontology or other types of networks can be loaded and visualized in parallel, in a time-dependent fashion. Networks of genes that have the same phenotype at a time point can be inferred and displayed. Several view modes are available to the user: 2D/3D arc representations of links between phenotypes, heat maps and line plots of gene-associated values.

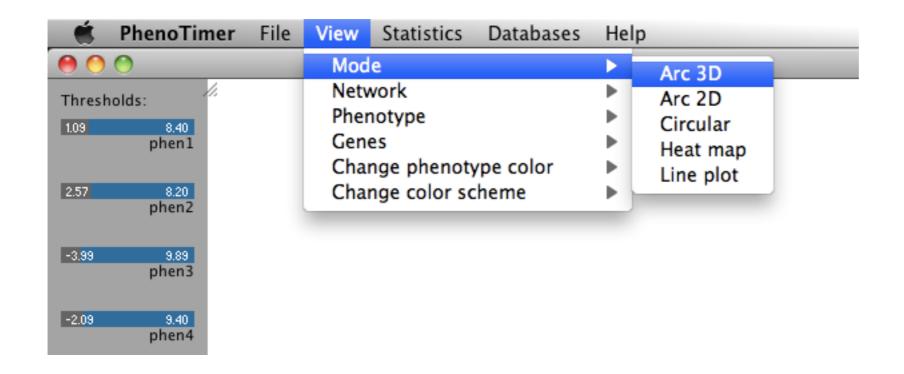
#### PhenoTimer graphical user interface



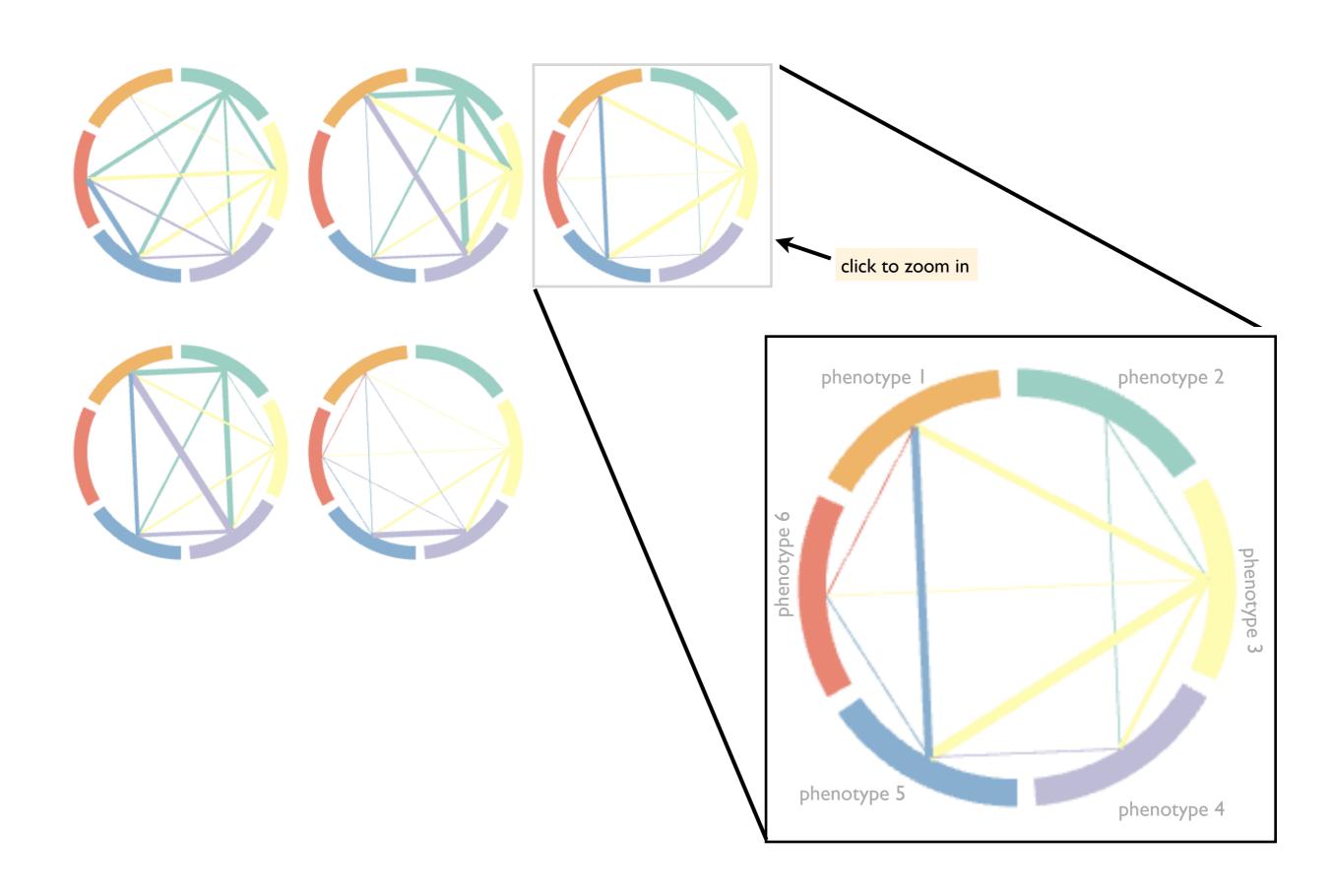
#### The view modes



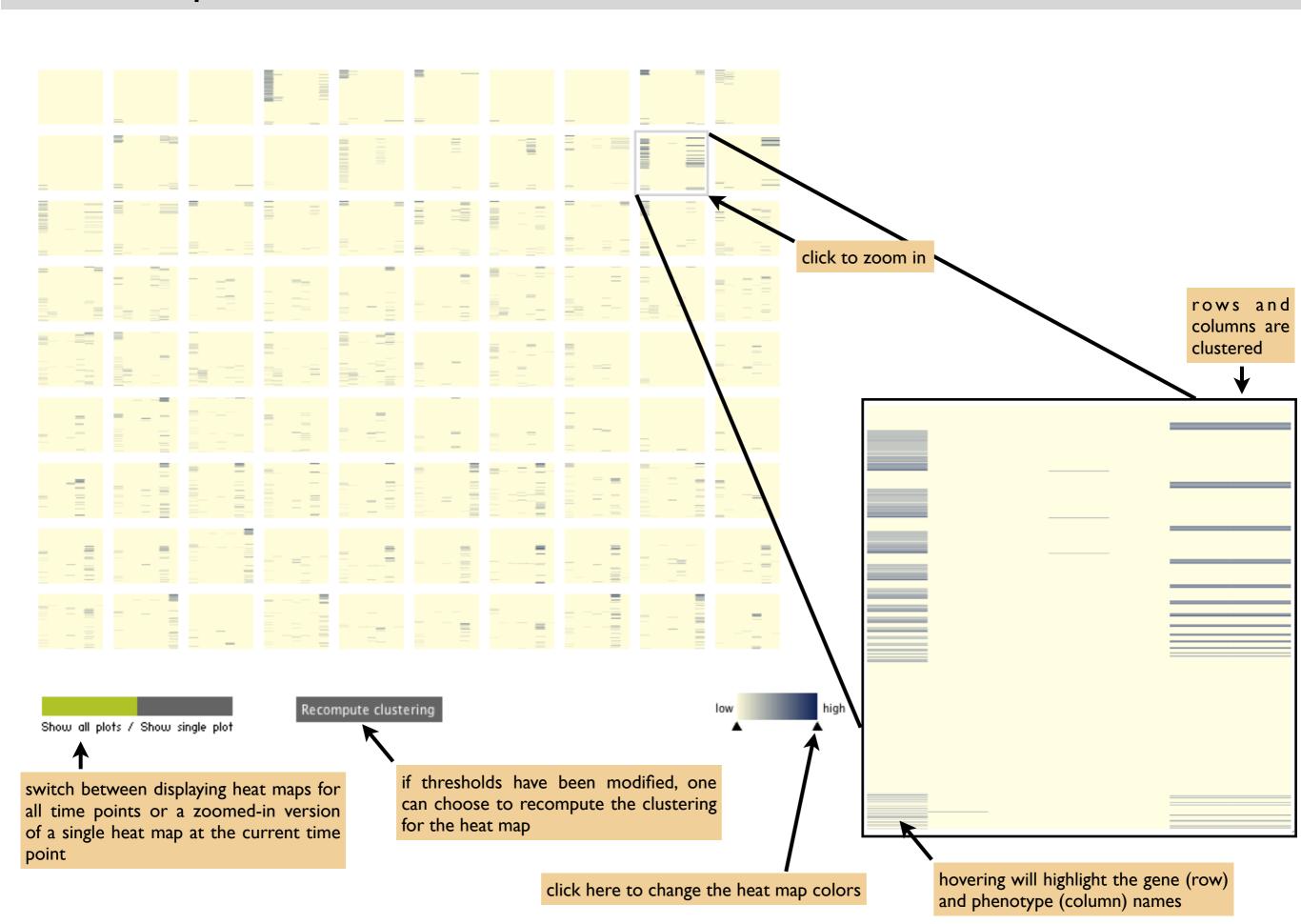
# Switching between view modes



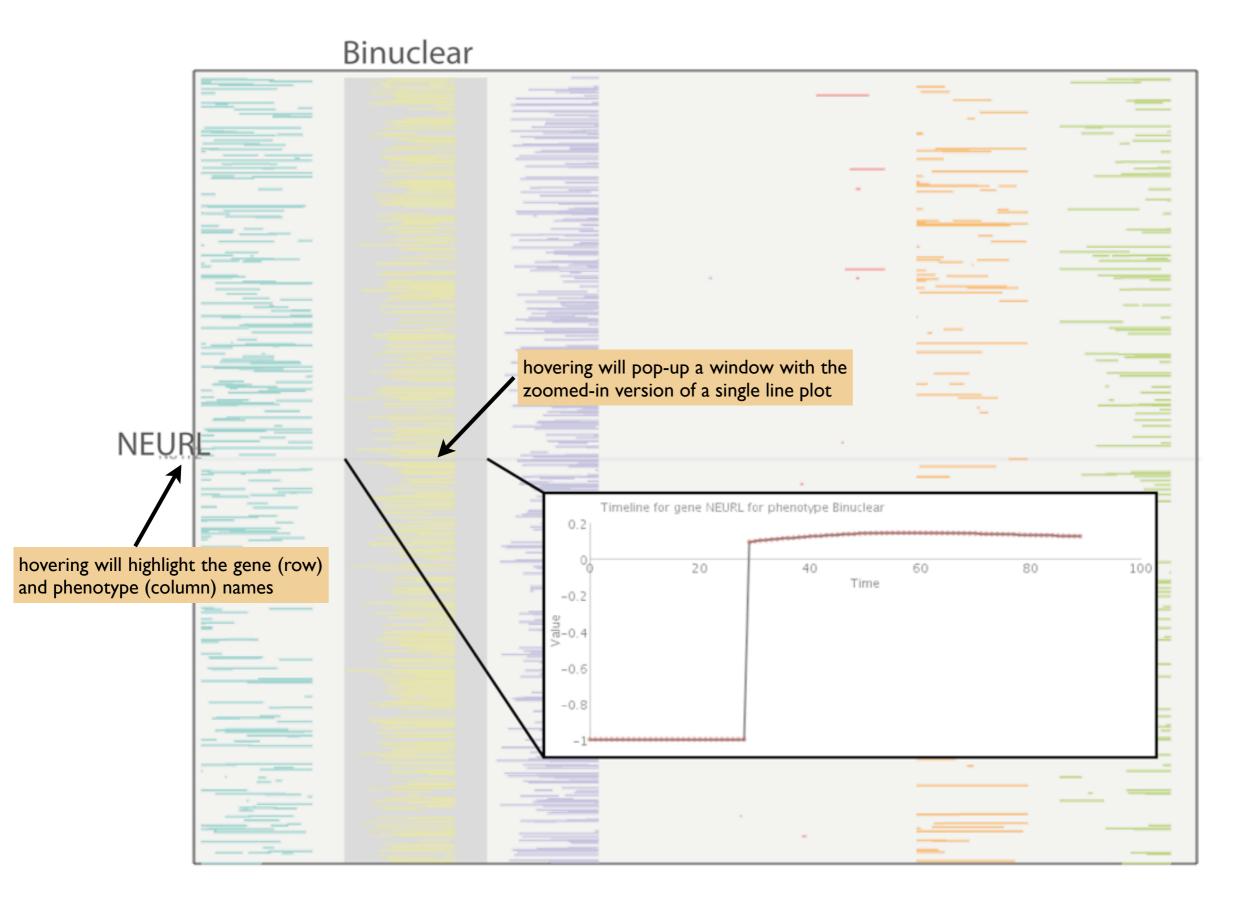
#### Circular view mode



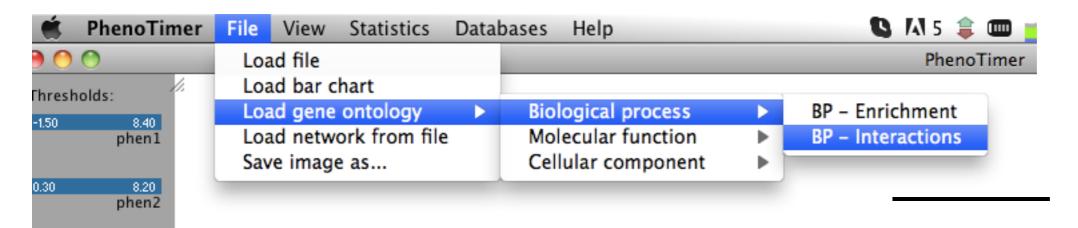
#### Heat map mode

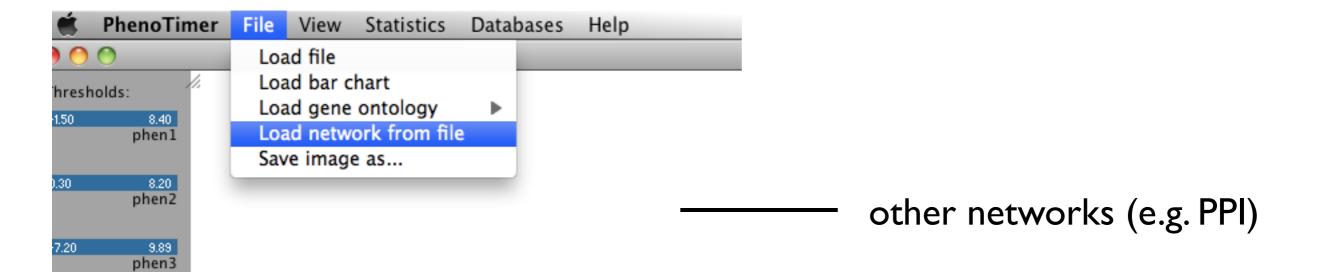


# Line plot mode

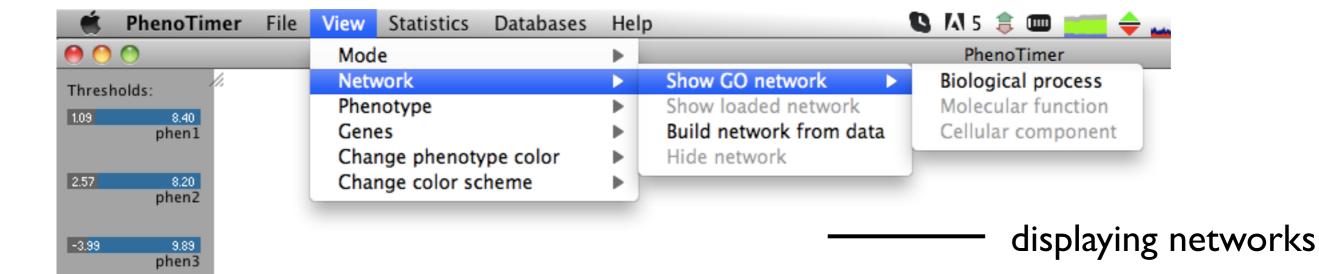


#### Loading and displaying networks

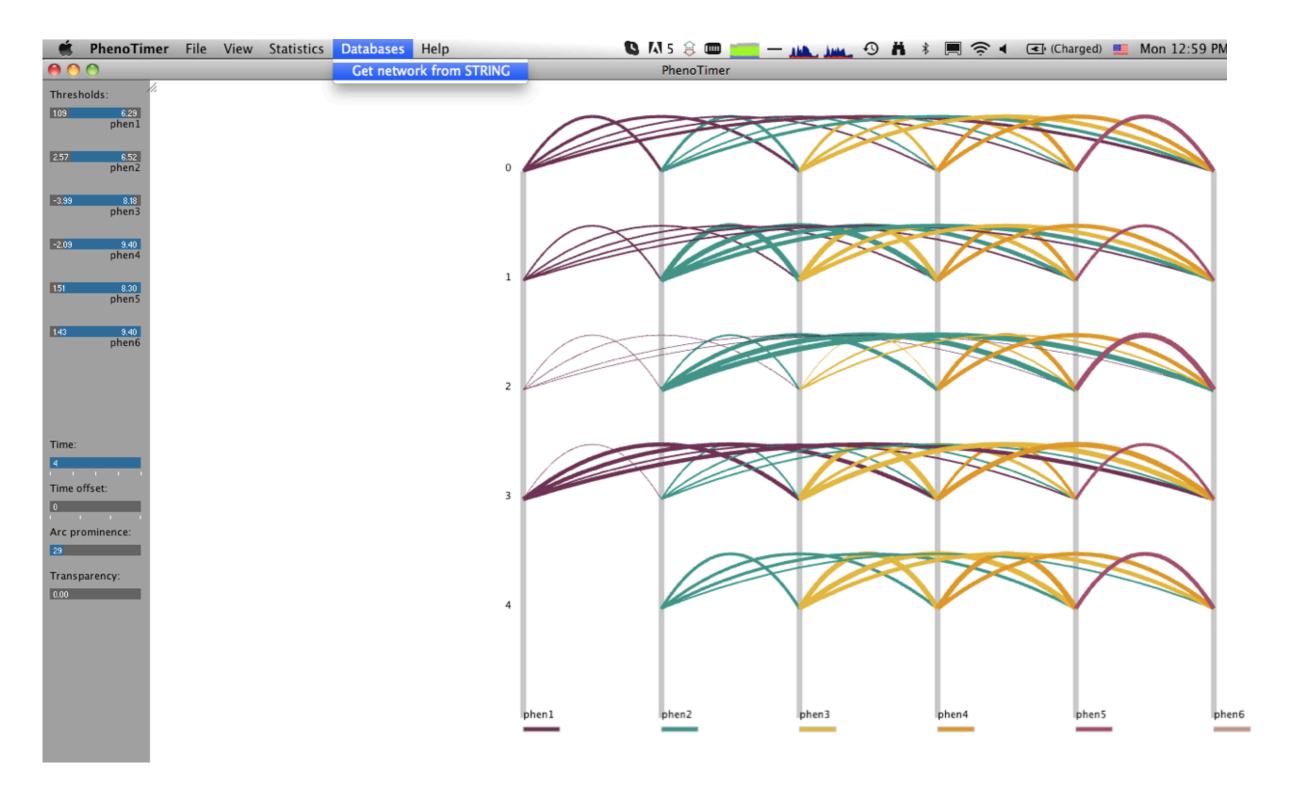




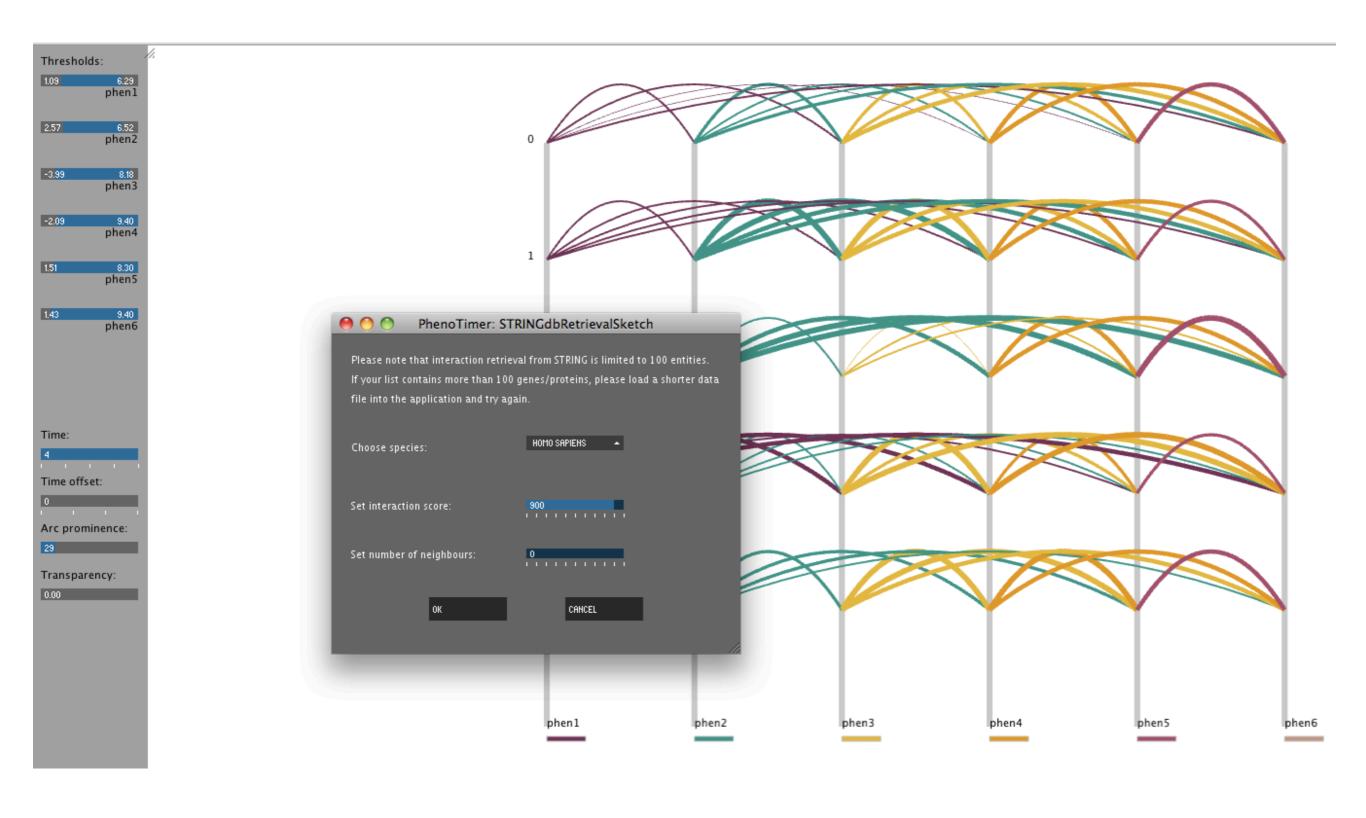
GO networks



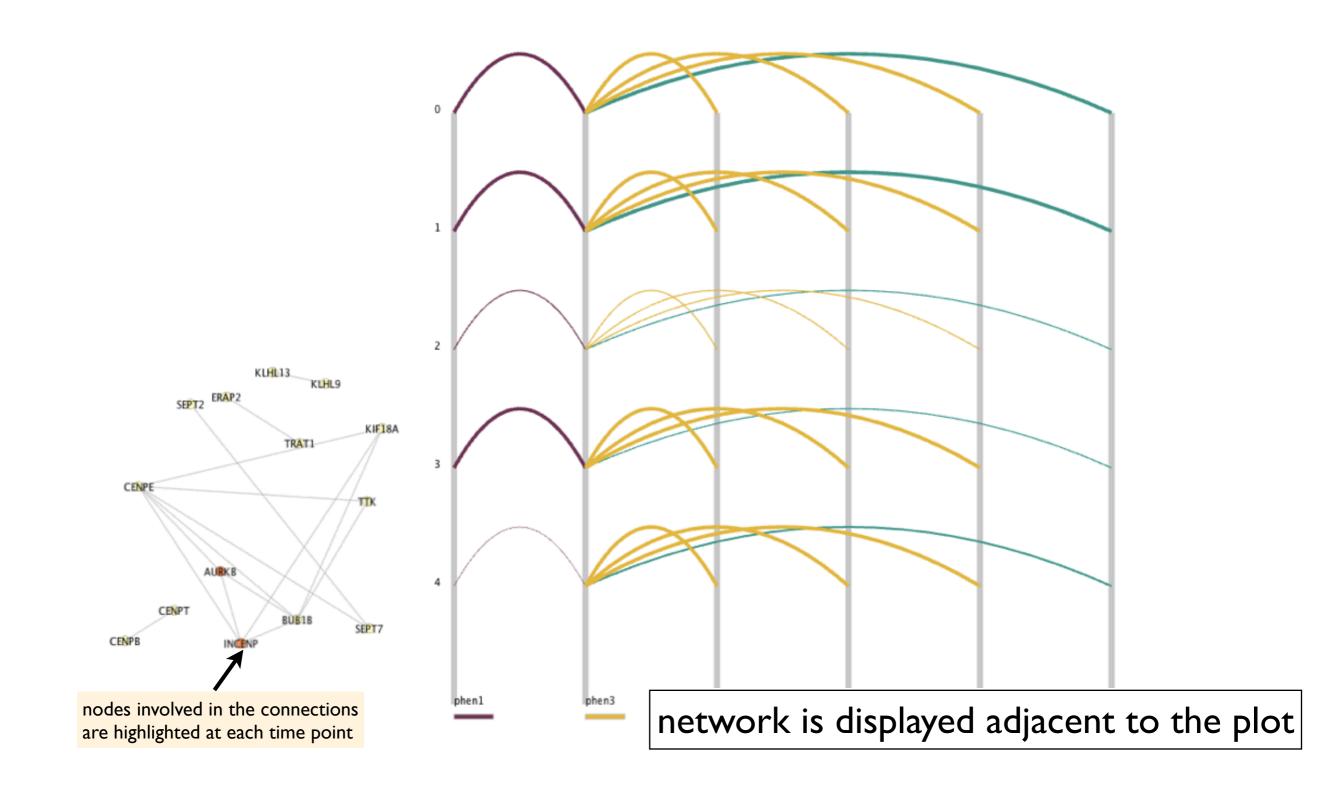
# Loading networks: retrieving network from STRING database



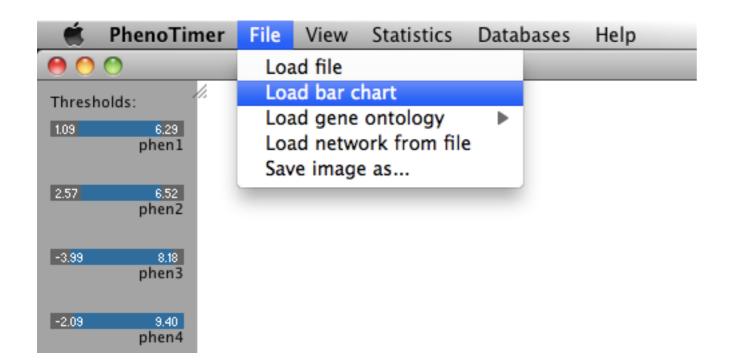
## Loading networks: retrieving network from STRING database

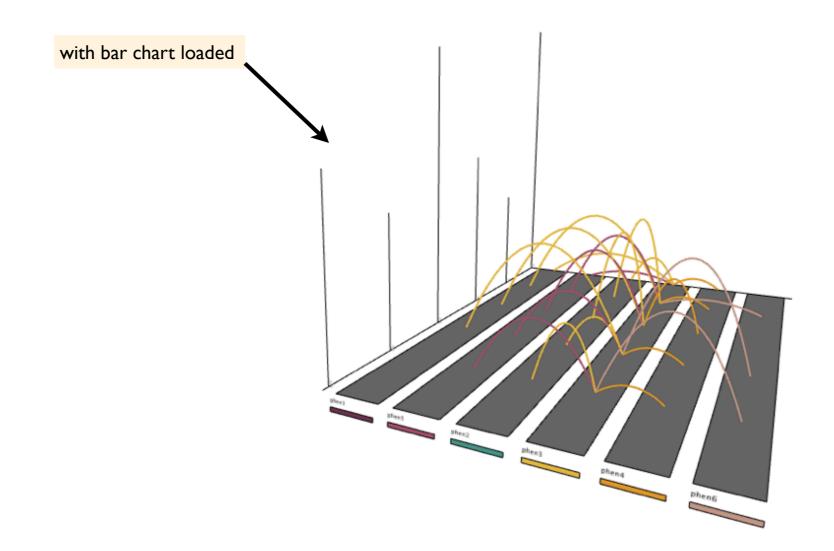


## Dynamic network construction and highlighting

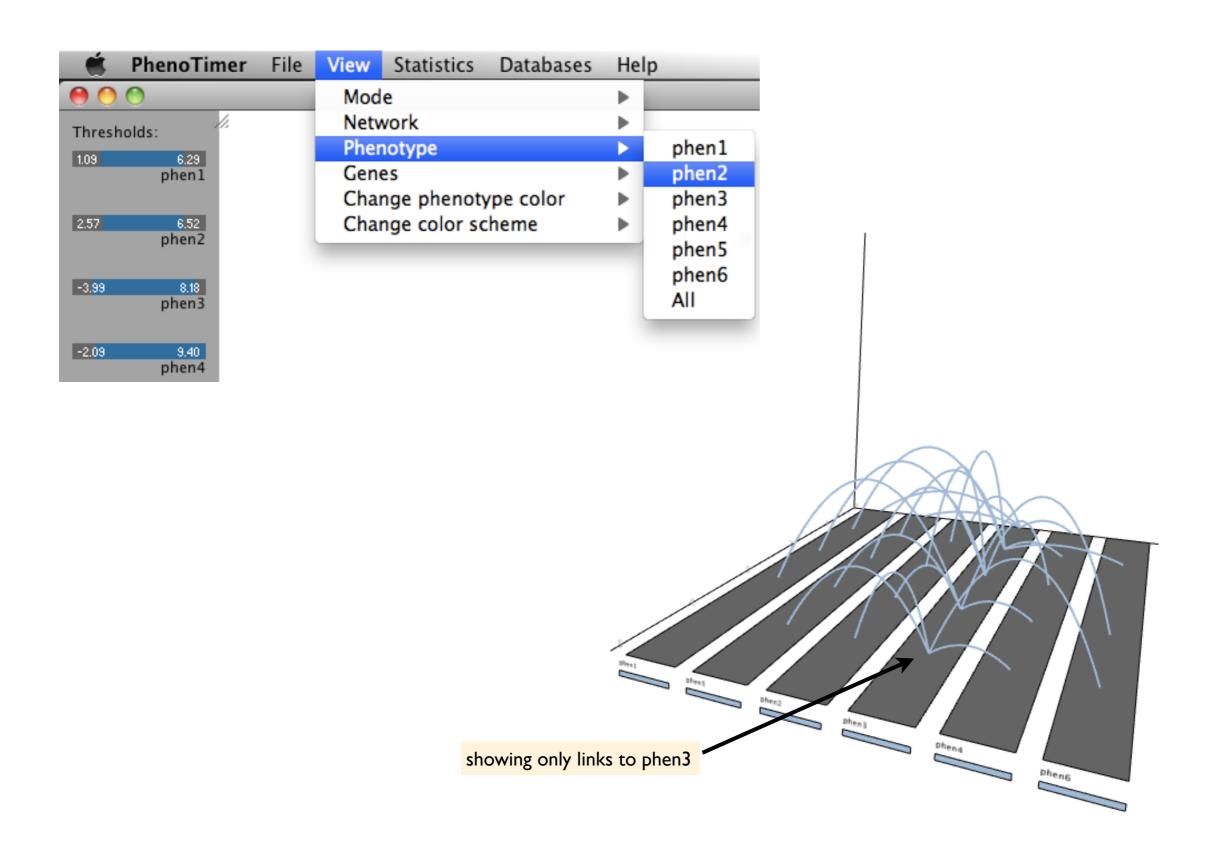


## Loading a bar chart

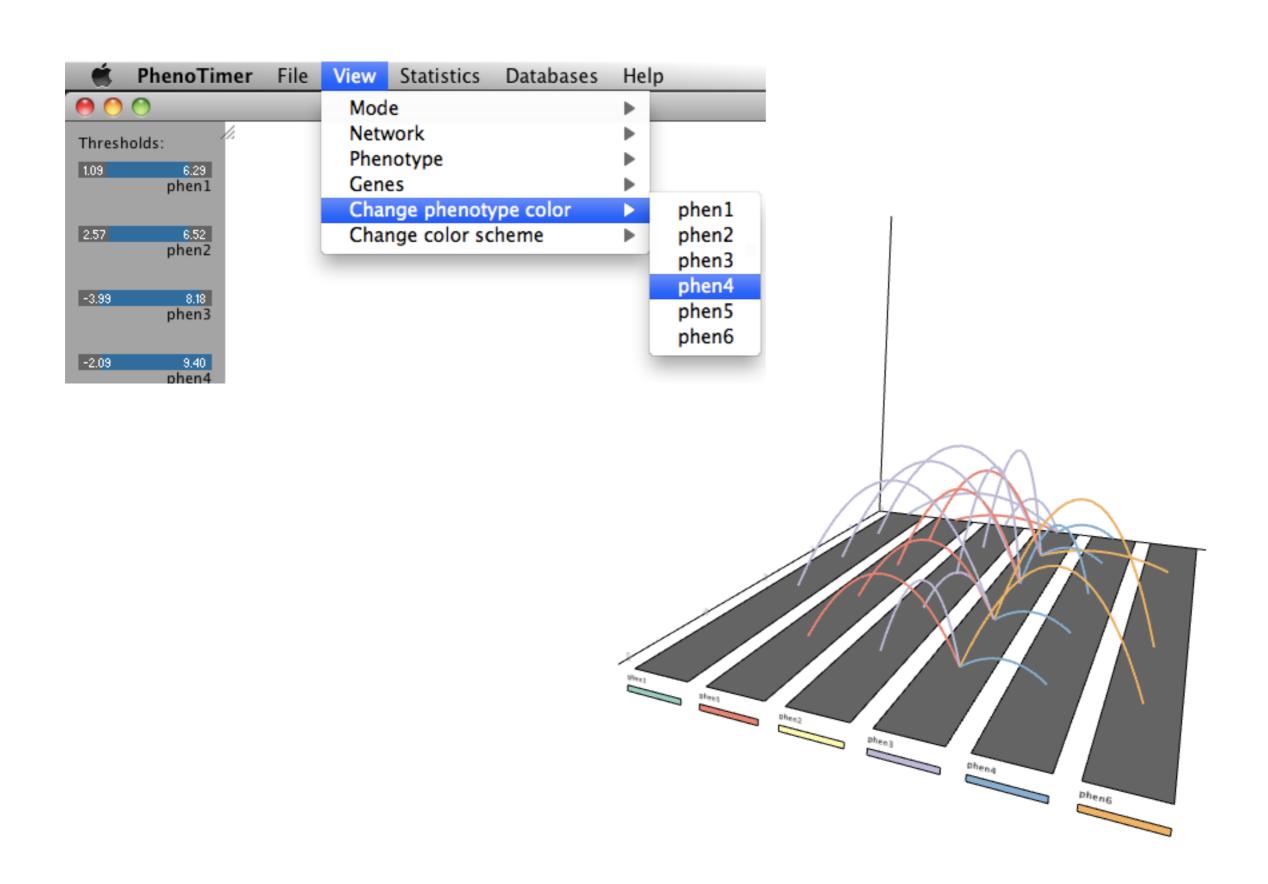




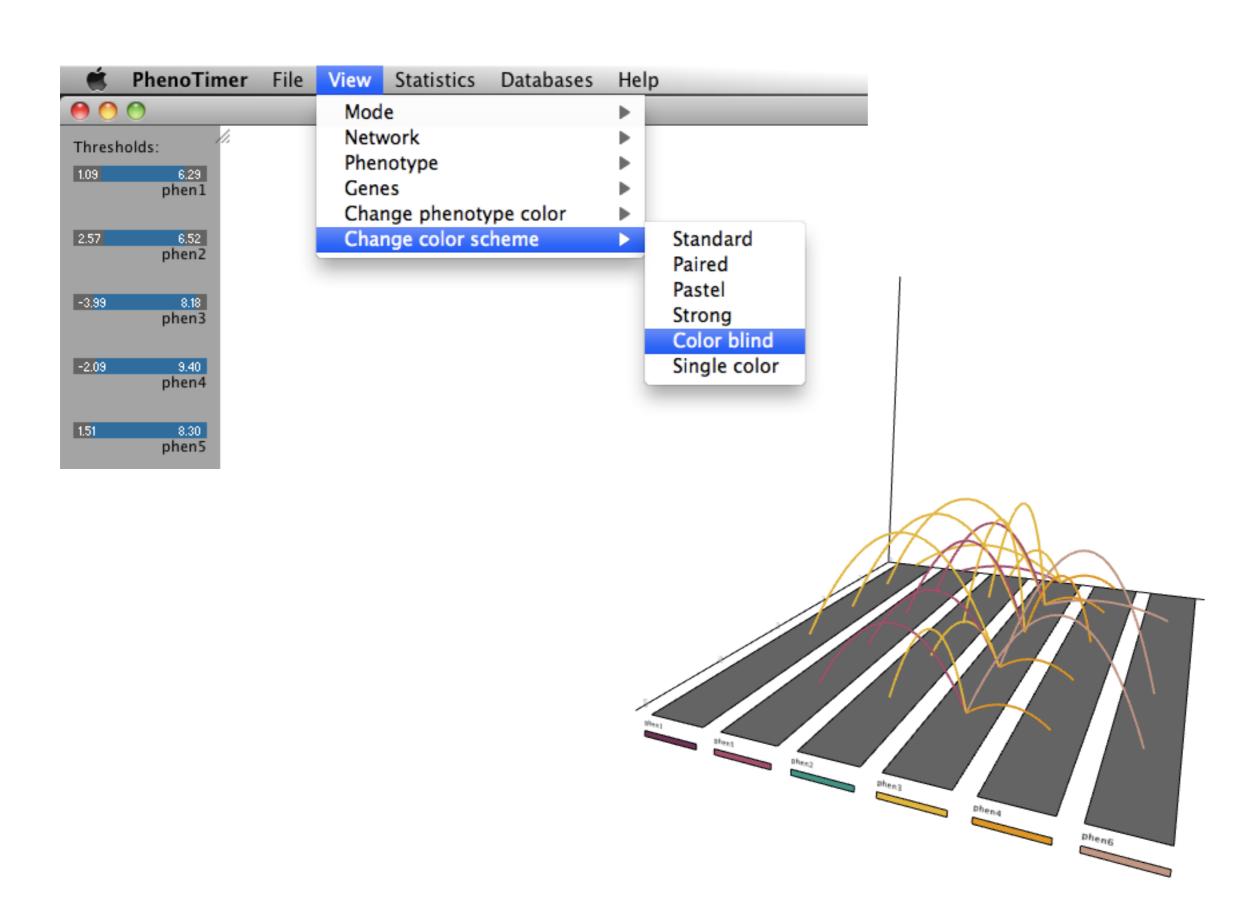
## Show connections to a single phenotype (or to all)



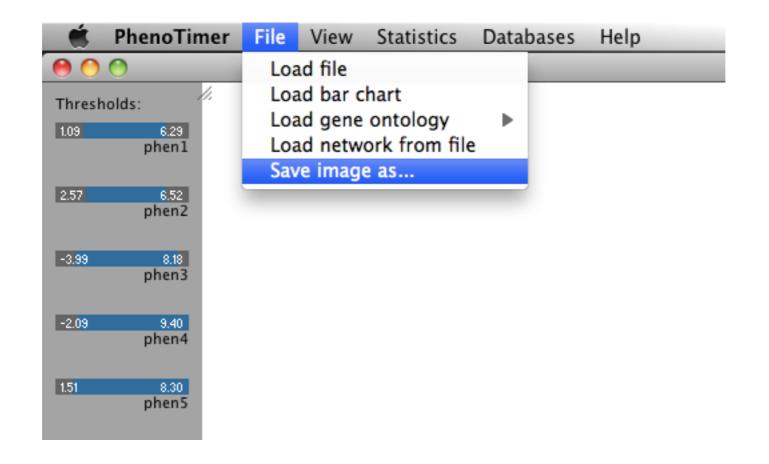
# Changing the arc colors for a phenotype of choice



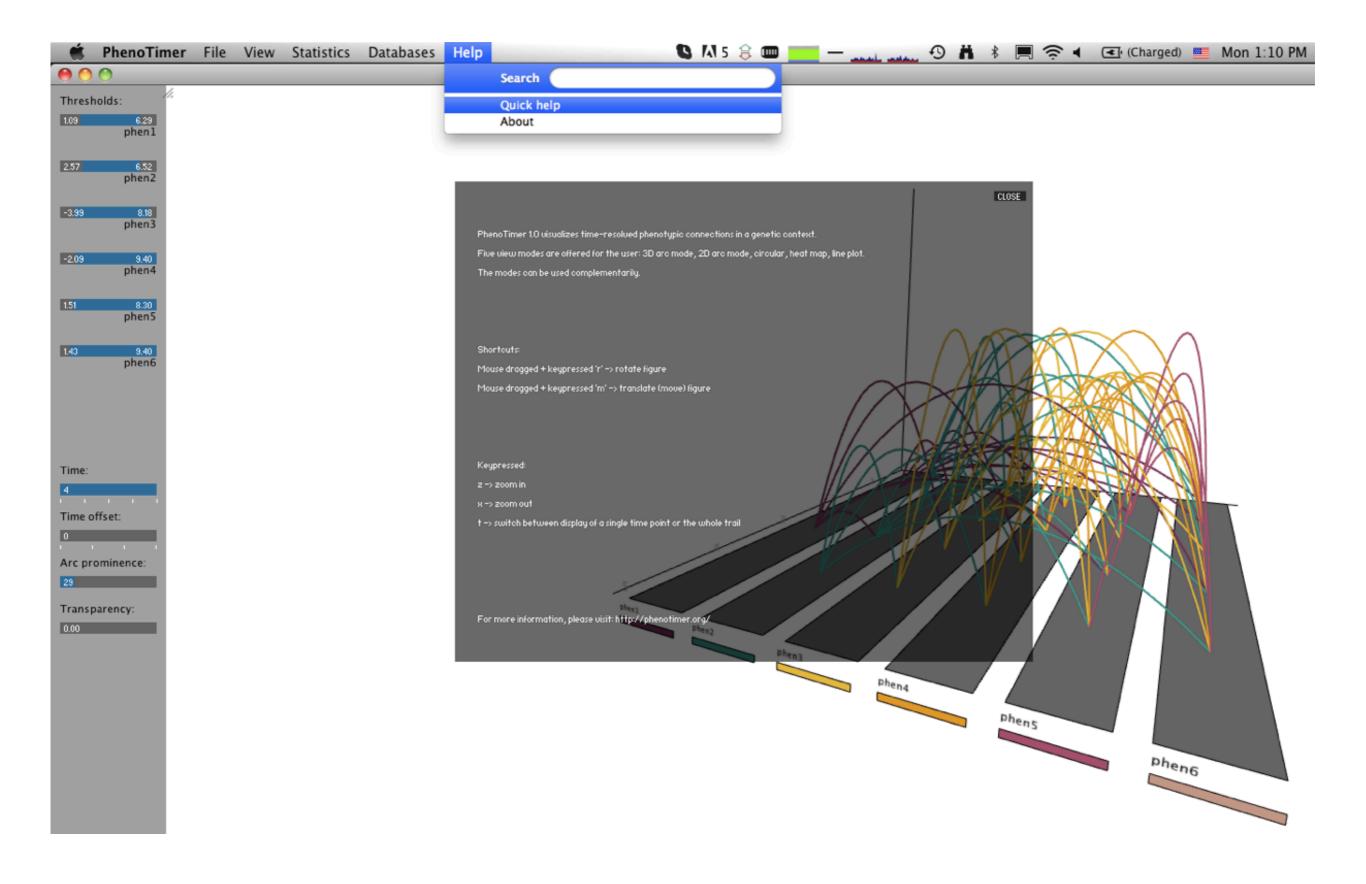
## Changing the color scheme for all arcs and phenotypes



# Saving plot images



## Getting help





#### For questions or comments, contact us at: secrier@embl.de

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