**EVOLVE Graphics UI**

## Notes

Axis labels & axis numbers need to be larger

Label # populations where allele was Fixed & Lost?

Don’t number every grid line

freq: major at 0.1, minor 0.02?

time, numbers: scale major, minor to 1/10 & 1/5?

Need legend

Should window be resizable? (but is scaling too complex?)

In following,  is default,  optional

## 2–D Graphs

### Horizontal Axis

▼Basic

 Time

▼Frequencies

 A  B  C

▼Advanced

### Vertical Axis

Note: if request both frequency & # plots, put freq. on left axis & # on right

▼Basic

▼Frequencies

 A  B  C

 AA  AB  BB  AC  BC  CC

▼Numbers

 Population Size

Adults:  AA  AB  BB  AC  BC  CC

Matings

AA AB BB AC BC CC

AA      

AB     

BB    

AC   

BC  

CC 

Young

 AA  AB  BB  AC  BC  CC

Migrants

 AA  AB  BB  AC  BC  CC

Mutations

 A>B  B>A  A>C  B>C  C>A  C>B

▼Advanced

 Ternary plot of Allele Frequencies (3 allele only; gray/missing if 2?)

 Population Mean fitness

(If multiple populations; gray/missing if <10 pop.s?)

▼ Mean & Standard Deviation (Box–&–Whisker or color/density?)

▼Frequencies

 A  B  C

 AA  AB  BB  AC  BC  CC

 AA  AB  BB  AC  BC  CC

 Population Mean fitness

 Ternary plot of Allele Frequencies (3 allele only; gray/missing if 2?)

## 3–D Graphs

3D (rotating): Time vs Other Variables

If multiple populations

Histogram of freq.s per generation

Gausian distribution of mean and standard deviation per generation

Ternary plots of frequencies for 3 alleles extended in time dimension