



When these butterflies mate...



... their offspring have hybrid patterns.

What can we learn from looking at these hybrids?

How do their patterns vary?

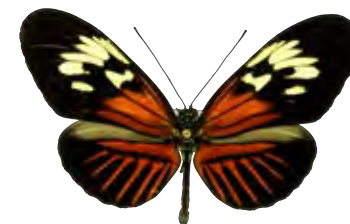
Can you make one of these butterflies...



Heliconius melpomene melpomene



Heliconius melpomene meriana



Heliconius melpomene thelxiope



Heliconius melpomene plessini

ECUADOR



Heliconius melpomene cythera



Heliconius melpomene amaryllis



VENEZUELA

GUYANA

FRENCH GUIANA

PERU

BRAZIL



Heliconius melpomene malleti

...using these genes?

All of these patterns are made by turning just **three** genes on and off.

Each gene (*RED*, *YELLOW* and *BAND SHAPE*) has several possible variants.

Pick only one variant of each gene to make a butterfly!

RED

YELLOW

BAND SHAPE



band



band



one



dennis



bar



two



rays



margin



broken



dennis and rays



absent

Don't forget your sticker!