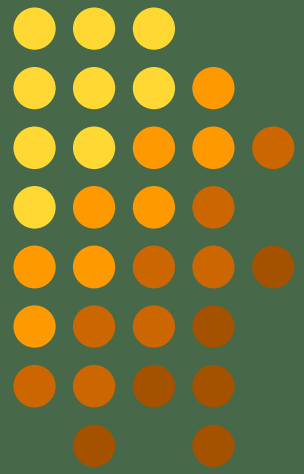
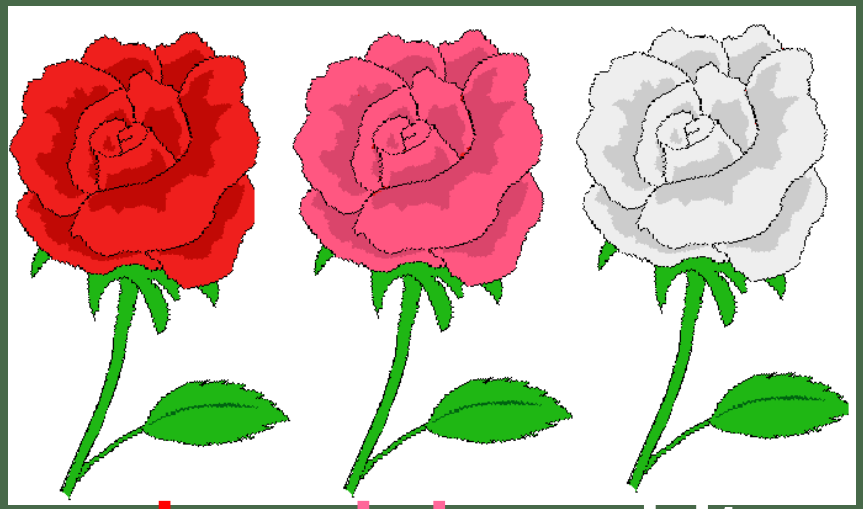
Mendelian Exceptions (Non Mendelian Traits)



Incomplete Dominance

A. A cross between organisms with two different phenotypes
   1. Ex: Red (RR) x White (WW)
B. Produce offspring with a third phenotype that is a **blending** of the parental traits
   1. Ex: Pink (RW)



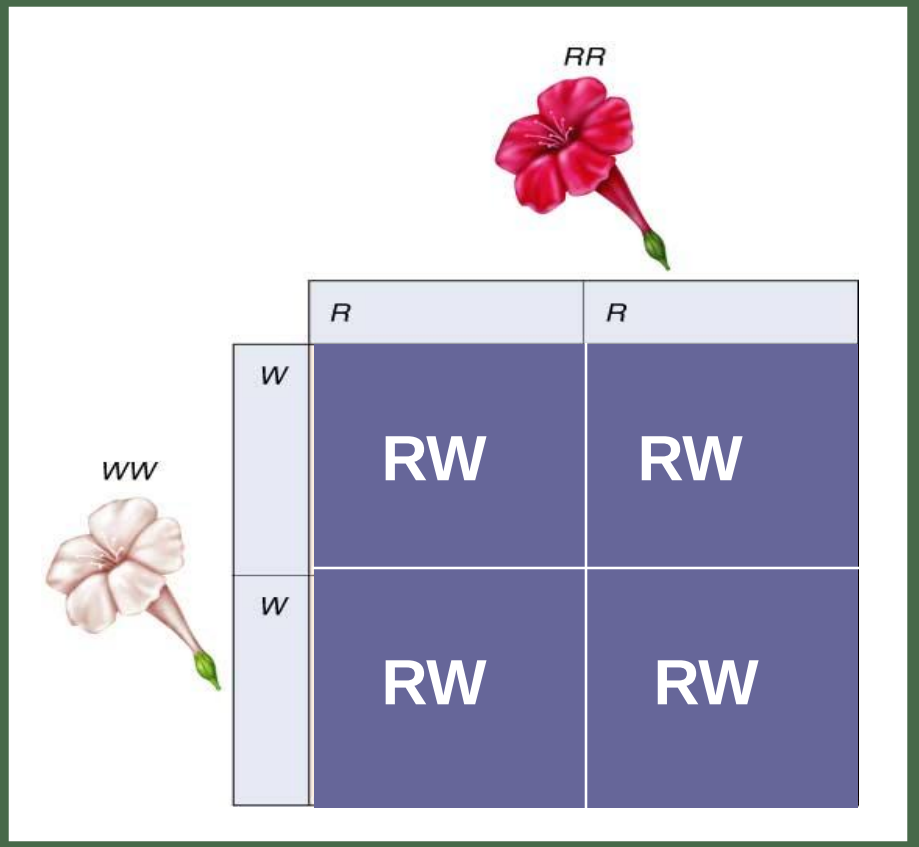
red **pink** **white**

Incomplete Dominance

C. EXAMPLE: If a homozygous **red** flowered snap dragon plant (RR) is crossed with a homozygous **white** flowered snap dragon plant (WW), all of the F1 offspring will have **pink** flowers.

RED flower x WHITE flower → PINK flower

D. The **phenotypes** of **heterozygous** individuals is **intermediate** (in the middle) between those of two homozygotes



Incomplete Dominance

- In another flower, if red RR and blue BB flowers are crossed, they produce a 3rd purple RB flower
- What would be the genotype ratio and phenotype ratio if you crossed two purple flowers?

Incomplete Dominance

- Cross of two purple flowers
  RB X RB
- What are gamete possibilities?
- genotype ratio
  1RR : 2RB : 1BB
- phenotype ratio
  1red : 2 purple : 1 blue
- Can you have a heterozygous red or hybrid blue flower? no

	R	B
R	RR red	RB purple
B	RB purple	BB blue


STOP