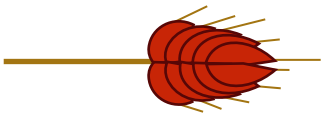
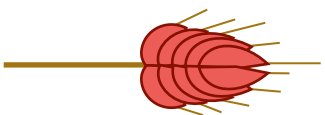




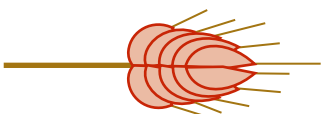
Polygenic Traits



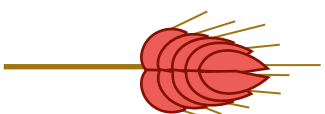
AA BB



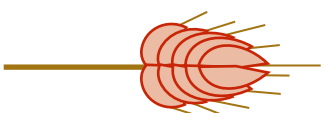
AA Bb



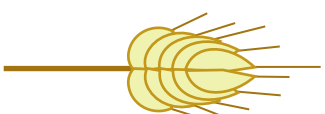
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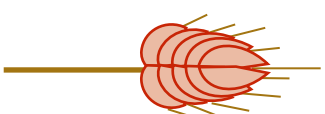
Aa BB



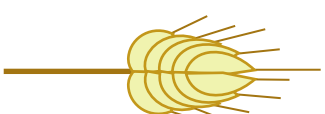
Aa Bb



Aa bb



aa BB



aa Bb



aa bb

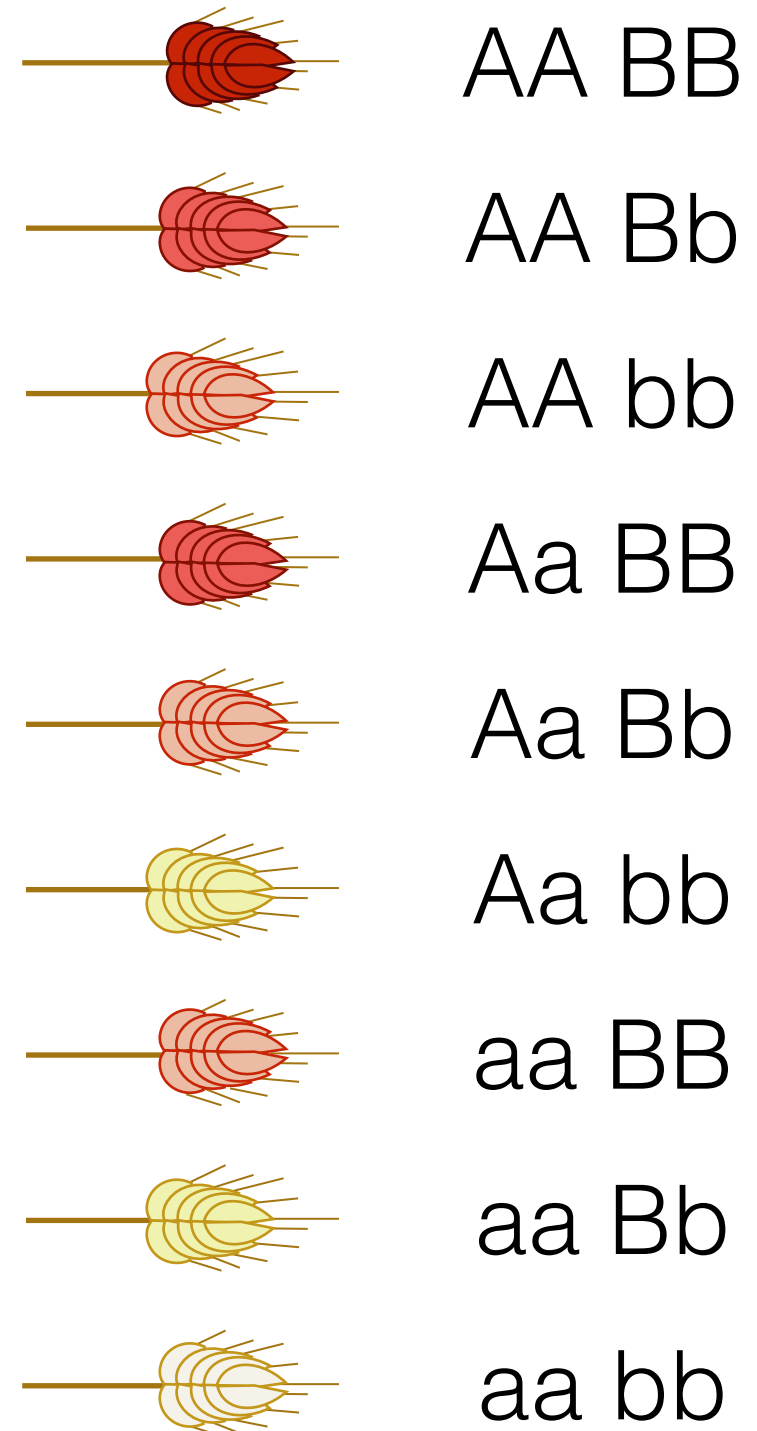
In this example, the trait was influenced directly by the 'additive' effects of alleles. Other inter-allelic relationships include:

- Dominance effects
- Epistatic effects
- Environmental influences
- Interaction effects

# Polygenic Traits

In this example, the trait was influenced directly by the 'additive' effects of alleles. Other inter-allelic relationships include:

- Dominance effects
- Epistatic effects
- Environmental influences
- Interaction effects



# Phenotypic Variance

The variation of a particular phenotype can be partitioned into several additive components:

- Genetic variance.
- Environmental variance.
- Interaction of Genetic & Environment.

$$\sigma_P^2 = \sigma_G^2 + \sigma_E^2 + \sigma_{G \times E}^2$$

