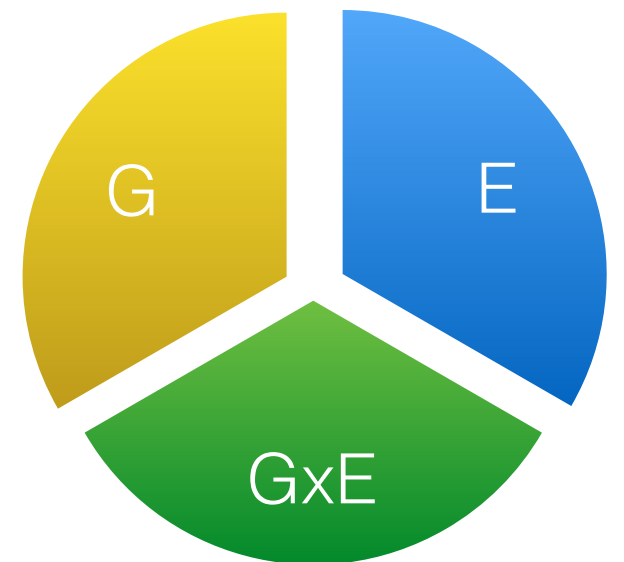


Phenotypic Variance

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

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

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



$$\sigma_P^2 = \sigma_A^2 + \sigma_D^2 + \sigma_I^2 + \sigma_E^2 + \sigma_{G \times E}^2$$

Components of V_G

The variation due to the genetic components can be further subdivided into:

- Additive genetic variance, V_A .
- Dominance variance, V_D .
- Interaction variance, V_I .

