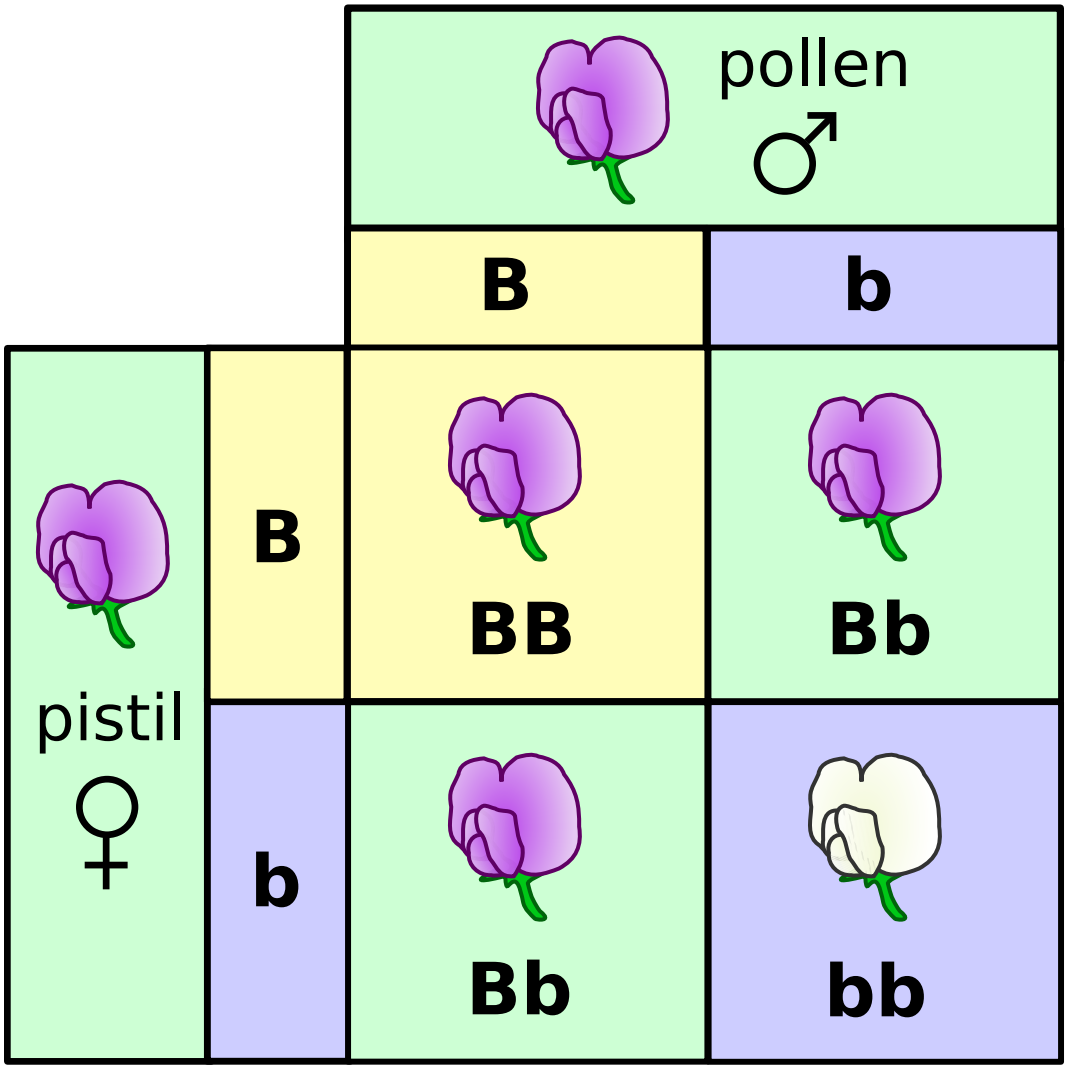
Peas, peas, everywhere



In the pea plant example above, the capital "B" represents the **dominant** allele for **purple** blossom and **lowercase "b"** represents the **recessive** allele for **white blossom**. The pistil plant and the pollen plant are both F1-hybrids with genotype "B b". Each has one allele for purple and one allele for white. In the offspring, in the F2-plants in the above Punnett-square, three combinations are possible. The genotypic ratio is 1 BB : 2 Bb : 1 bb. But the phenotypic ratio of plants with purple blossoms to those with white blossoms is 3 : 1 due to the dominance of the allele for purple. Plants with "b b" are white flowered like one of their grandparents.