|  |  |  |  |
| --- | --- | --- | --- |
| Typical Distribution of Phenotypes/Genotypes | | Mom | |
| G | B |
| Dad | B | BG (Green) | BB (Blue) |
| B | BG (Green) | BB (Blue) |

According to the Pundit Square outlined above, there is a 50-50 chance that the offspring of these parents will have either green or blue eyes (2 have green, 2 have blue out of 4 total possibilities).

Below, I have run a simulation to mimic 2000 random offspring of these two parents in order to see if the distribution will match the Pundit Square’s theoretical distribution. Some visualizations of the data are shown below.

