

# Genotypes

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Genotypes are genetic "codes". The ones most commonly used with rabbits are the genotypes for colors. This is a list of color genotypes in rabbits. The underscore(\_) means that it doesn't matter what else the rabbit carries-dominant or recessive-doesn't matter.

## Broken Gene

All of these colors can be broken (white and the color) unless otherwise noted. A broken color has the gene  $E_n$ , solids are  $e_n$ . If there are two  $E_n$  genes ( $E_n E_n$ ) then the result is a "charlie" rabbit where there is not much color. It may or may not be showable depending on the breed and the amount of color present. A correct broken has the genotype of  $E_n e_n$ , usually (modifiers can make charlies appear to be normal broken, or vice-versa).

Charlie:  $E_n E_n$

Broken:  $E_n e_n$

Solid:  $e_n e_n$

Chestnut:  $A\_ B\_ C\_ D\_ E\_$

Opal:  $A\_ B\_ C\_ dd E\_$

Chocolate Agouti:  $A\_ bb C\_ D\_ E\_$

Lynx:  $A\_ bb C\_ dd E\_$

Black:  $aa B\_ C\_ D\_ E\_$

Blue:  $aa B\_ C\_ dd E\_$

Red:  $A\_ B\_ C\_ D\_ ee ww$

Orange:  $A\_ B\_ C\_ D\_ ee + rufus modifiers$

Fawn:  $A\_ B\_ C\_ D\_ ee$  ( $A\_ B\_ C\_ ddee$  in every breed but Hollands)

Cream:  $A\_ B\_ C\_ dd ee$

Tort:  $aa B\_ C\_ D\_ ee$

Blue Tort: aa B\_ C\_ dd ee

Lilac Tort: aa bb C\_ dd ee

Chocolate Tort: aa bb C\_ D\_ ee

Chocolate: aa bb C\_ D\_ E\_

Lilac: aa bb C\_ dd E\_

Ruby Eyed White: \_\_\_ cc \_\_\_

Blue Eyed White: \_\_\_ \_\_\_ \_\_\_ vv

Siamese Sable: aa B\_ c<sup>ch1</sup> c D\_ E\_

Smoke Pearl: aa B\_ c<sup>ch1</sup> c dd E\_

Frosty: A\_ B\_ c<sup>ch3</sup> \_ D\_ ee

Seal: aa B\_ c<sup>ch1</sup> c<sup>ch1</sup> D\_ E\_

Chinchilla: A\_ B\_ c<sup>ch3</sup> \_ D\_ E\_

Iron Gray (not showable in US): aa B\_ c<sup>ch3</sup> \_ D\_ ee

Chocolate Chinchilla: A\_ bb c<sup>ch3</sup> \_ D\_ E\_

Squirrel (blue chinchilla): A\_ B\_ c<sup>ch3</sup> \_ dd E\_

Lilac Chinchilla: A\_ bb c<sup>ch3</sup> \_ dd E\_

Sable Chinchilla: A\_ B\_ c<sup>ch1</sup> \_ D\_ E\_

Sable Point: aa B\_ c<sup>ch1</sup> \_ D\_ ee

Blue Point (non-showable in HL's): aa B\_ c<sup>ch1</sup> \_ dd ee

Chocolate Point: aa bb c<sup>ch1</sup> \_ D\_ ee

Lilac Point: aa bb c<sup>ch1</sup> \_ dd ee

\*\*ALL Harlequins are NOT showable in Holland Lops!!\*\*

Orange/Black Tri-Color: A\_ B\_ C\_ D\_ e<sup>j</sup>e Enen

Orange/Black Harlequin : A\_ B\_ C\_ D\_ e<sup>j</sup>e enen

Blue/Fawn Tri: A\_B\_C\_dd e<sup>j</sup>e Enen  
Blue/Fawn Harlequin: A\_B\_C\_ dd e<sup>j</sup>e enen  
Chocolate/Fawn Tri: A\_ bb C\_ D\_ e<sup>j</sup> e Enen  
Chocolate/Fawn Harlequin: A\_ bb C\_ D\_ e<sup>j</sup>e enen  
Lilac/Fawn Tri: A\_ bb C\_ dd e<sup>j</sup>e Enen  
Lilac/Fawn Harlequin: A\_ bb C\_ dd e<sup>j</sup>e enen  
Black Otter: a<sup>t</sup>\_ B\_C\_D\_E\_  
Blue Otter: a<sup>t</sup>\_B\_C\_dd E\_  
Chocolate Otter: a<sup>t</sup>\_ bb C\_D\_E\_  
Lilac Otter: a<sup>t</sup>\_ bb C\_ dd E\_  
Black Gold Tipped Steel: A\_B\_C\_D\_E<sup>s</sup>\_  
Blue Gold Tipped Steel: A\_B\_C\_dd E<sup>s</sup>\_  
Chocolate Gold Tipped Steel: A\_bb C\_D\_E<sup>s</sup>\_  
Lilac Gold Tipped Steel: A\_bb C\_dd E<sup>s</sup>\_  
Black Silver Tipped Steel: A\_B\_c<sup>ch3</sup>\_D\_E<sup>s</sup>\_  
Blue Silver Tipped Steel: A\_B\_c<sup>ch3</sup>\_dd E<sup>s</sup>\_  
Chocolate Silver Tipped Steel: A\_bb c<sup>ch3</sup>\_D\_ E<sup>s</sup>\_  
Lilac Silver Tipped Steel: A\_bb c<sup>ch3</sup>\_dd E<sup>s</sup>\_  
Sable Martin: a<sup>t</sup>\_ B\_ c<sup>ch1</sup>\_D\_E\_  
Smoke Pearl Martin: a<sup>t</sup>\_ B\_ c<sup>ch1</sup>\_ dd E\_  
Chocolate Sable Martin: a<sup>t</sup>\_ bb c<sup>ch1</sup>\_D\_E\_  
Lilac Sable Martin: a<sup>t</sup>\_ bb c<sup>ch1</sup>\_ dd E\_  
Silver Martin: a<sup>t</sup>\_ B\_ c<sup>ch3</sup>\_D\_E\_  
Blue Silver Martin: a<sup>t</sup>\_ B\_ c<sup>ch3</sup>\_ dd E\_  
Chocolate Silver Martin: a<sup>t</sup>\_ bb c<sup>ch3</sup>\_D\_E\_  
Lilac Silver Martin: a<sup>t</sup>\_ bb c<sup>ch3</sup>\_ ddE\_  
Black Pointed White: aa B\_ c<sup>h</sup>\_ D\_ E\_

Blue Pointed White: aa B\_ c<sup>h</sup> \_ dd E\_

Chocolate Pointed White: aa bb c<sup>h</sup> \_ D\_ E\_

Lilac Pointed White: aa bb c<sup>h</sup> \_ dd E\_