

Genotypes

By Amy Hinkle



This work is licensed under the Creative Commons Attribution-NonCommercial-No Derivative Works 3.0 United States License. This means you're free to copy and share this article (but not to sell it) so long as you don't change it and attribute the work to me. This notification may not be removed.

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-dominate 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 En, solids are enen. If there are two En genes (EnEn) 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 Enen, usually (modifiers can make charlies appear to be normal broken, or vice-versa).

Charlie: EnEn

Broken: Enen

Solid: enen

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^{ch1} c D_ E_

Smoke Pearl: aa B_ c^{ch1} c dd E_

Frosty: A_ B_ c^{ch3} _ D_ ee

Seal: aa B_ c^{ch1} c^{ch1} D_ E_

Chinchilla: A_ B_ c^{ch3} _ D_ E_

Iron Gray (not showable in US): aa B_ c^{ch3} _ D_ ee

Chocolate Chinchilla: A_ bb c^{ch3} _ D_ E_

Squirrel (blue chinchilla): A_ B_ c^{ch3} _ dd E_

Lilac Chinchilla: A_ bb c^{ch3} _ dd E_

Sable Chinchilla: A_ B_ c^{ch1} _ D_ E_

Sable Point: aa B_ c^{ch1} _ D_ ee

Blue Point (non-showable in HL's): aa B_ c^{ch1} _ dd ee

Chocolate Point: aa bb c^{ch1} _ D_ ee

Lilac Point: aa bb c^{ch1} _ dd ee

ALL Harlequins are NOT showable in Holland Lops!!

Orange/Black Tri-Color: A_ B_ C_ D_ e^je Enen

Orange/Black Harlequin : A_ B_ C_ D_ e^je enen

Blue/Fawn Tri: A_B_C_dd e^je Enen
Blue/Fawn Harlequin: A_B_C_ dd e^je enen
Chocolate/Fawn Tri: A_ bb C_ D_ e^j e Enen
Chocolate/Fawn Harlequin: A_ bb C_ D_ e^je enen
Lilac/Fawn Tri: A_ bb C_ dd e^je Enen
Lilac/Fawn Harlequin: A_ bb C_ dd e^je enen
Black Otter: a^t_ B_C_D_E_
Blue Otter: a^t_B_C_dd E_
Chocolate Otter: a^t_ bb C_D_E_
Lilac Otter: a^t_ bb C_ dd E_
Black Gold Tipped Steel: A_B_C_D_E^s_
Blue Gold Tipped Steel: A_B_C_dd E^s_
Chocolate Gold Tipped Steel: A_bb C_D_E^s_
Lilac Gold Tipped Steel: A_bb C_dd E^s_
Black Silver Tipped Steel: A_B_c^{ch3}_D_E^s_
Blue Silver Tipped Steel: A_B_c^{ch3}_dd E^s_
Chocolate Silver Tipped Steel: A_bb c^{ch3}_D_ E^s_
Lilac Silver Tipped Steel: A_bb c^{ch3}_dd E^s_
Sable Martin: a^t_ B_ c^{ch1}_D_E_
Smoke Pearl Martin: a^t_ B_ c^{ch1}_ dd E_
Chocolate Sable Martin: a^t_ bb c^{ch1}_D_E_
Lilac Sable Martin: a^t_ bb c^{ch1}_ dd E_
Silver Martin: a^t_ B_ c^{ch3}_D_E_
Blue Silver Martin: a^t_ B_ c^{ch3}_ dd E_
Chocolate Silver Martin: a^t_ bb c^{ch3}_D_E_
Lilac Silver Martin: a^t_ bb c^{ch3}_ ddE_
Black Pointed White: aa B_ c^h_ D_ E_

Blue Pointed White: aa B_ c^h _ dd E_

Chocolate Pointed White: aa bb c^h _ D_ E_

Lilac Pointed White: aa bb c^h _ dd E_