THE CFSO'S BEGINNER'S GUIDE TO CAVALIER COLOUR GENETICS

Basic Principles of Cavalier Colour Genetics

Phenotype is what the dog looks like.
Genotype is the genetic makeup.
Dominant genes will cover up effects of Recessive genes.
Whole Colour is Dominant, Parti Colour is Recessive.
Black is Dominant, Red is Recessive.
Each Cavalier carries separate genes for coat pattern & colour.

**** each percentage prediction is for EACH puppy, not for the overall litter****

PARTI COLOUR CROSSES

Blenheim carries only Parti Colour/Red

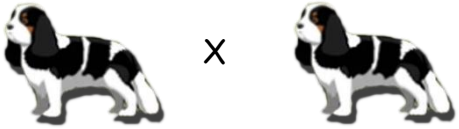
100% puppies will be Blenheim

Blenheim x Tri with Red gene

50:50 Blenheim or Tri with Red gene puppies

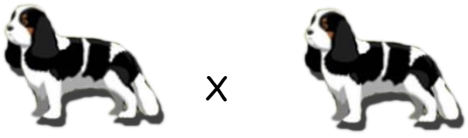
Blenheim x Tri no Red gene

100% puppies Tri with Red gene



Tri with Red gene x Tri with Red gene

25% Blen 25% Tri no Red 50% Tri with Red



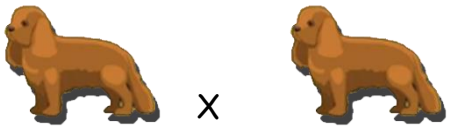
Tri with Red gene x Tri no Red gene

50:50 Tri with Red gene or Tri no Red gene

Tri no Red gene x Tri no Red gene

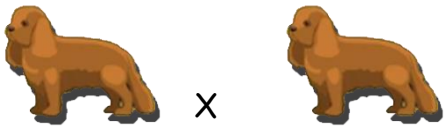
100% puppies Tri with no Red gene

WHOLE COLOUR CROSSES



Ruby no Parti gene x Ruby no Parti gene

100% Ruby no Parti gene



Ruby no Parti gene x Ruby with Parti gene

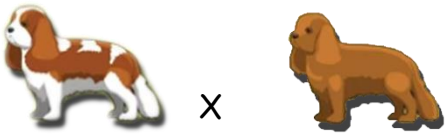
50:50 Ruby with Parti or no Parti gene

Ruby with Parti gene x Ruby with Parti gene

50:50 Blenheim or Ruby with Parti gene

Blenheim x Ruby with Parti gene

50:50 Blenheim or Ruby with Parti gene



Blenheim x Ruby no Parti gene

100 % Ruby with Parti gene

Tri no Red gene x Ruby no Parti gene

100% BT with Red/Parti genes

Tri no Red gene x Ruby with Parti gene

50:50 Tri with Red or BT with Red/Parti

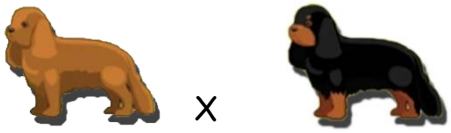
Tri with Red gene x Ruby no Parti gene

50:50 Ruby with Parti or BT with Red/Parti

WHOLE COLOUR CROSSES

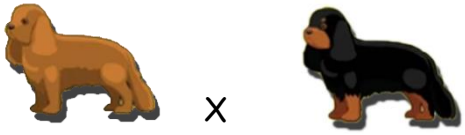
Ruby no Parti x BT no Parti/ no Red

100% BT no Parti/ with Red



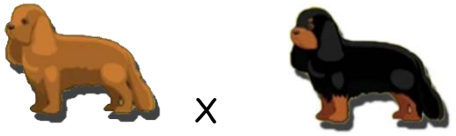
Ruby no Parti x BT with Parti/with Red

50:50 Ruby or BT each 50:50 with Parti



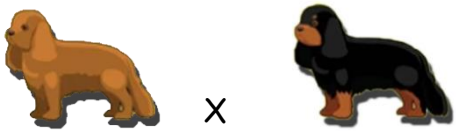
Ruby with Parti x BT no Parti/no Red

50:50 BT with Parti/with Red : BT no Part/ with Red



Ruby no Parti x BT with Parti/no Red

50:50 BT no Parti/with Red : BT with Parti/with Red

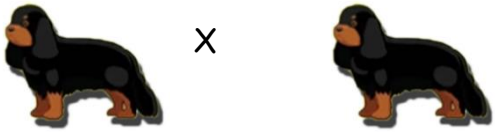


Ruby with Parti x BT with Parti/no Red

50 BT with Parti/Red 25 BT Red/no Parti 25 Tri w Red

BT no Parti/no red x BT no Parti/no Red

100% Dominant BT no Parti/no Red



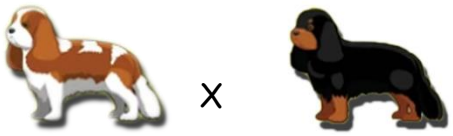
BT no Parti/with Red x BT no Parti/no Red

50 Dominant BT :50 BT no Parti/with Red

BT with Parti/Red x BT no Parti/no Red

50 BT with Parti: 50 BT no Parti
50 BT with Red: 50 BT no Red

WHOLE COLOUR CROSSES



Blenheim x BT with Red/no Parti gene

50:50 Ruby with Parti or BT with Red/ Parti

Blenheim x BT no Red/with Parti gene

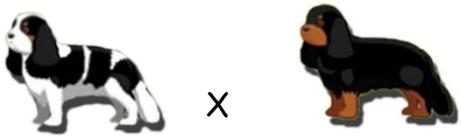
50:50 Tri with Red or BT with Red/Parti

Blenheim x BT no Red/no Parti gene

100 % BT with Red/Parti genes

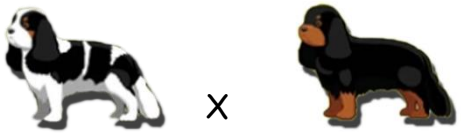
Tri with Red x BT with Red/no Parti

25 Ruby w Parti 25 BT Par/no Red 50 BT w Par/Red



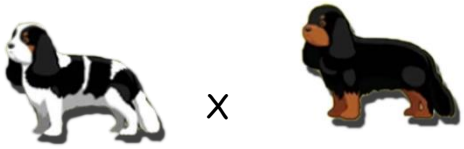
Tri with Red gene x BT no Red/no Parti gene

50:50 BT w Red/Parti or BT w Red/no Parti



Tri no Red gene x BT with Red/Parti genes

50:50 Tri or BT 50:50 with Red or no Red



Tri no Red gene x BT no Red/ with Parti

50:50 Tri or BT both no Red gene

Tri no Red gene x BT no Red/no Parti genes

100% BT with Parti gene, no Red gene

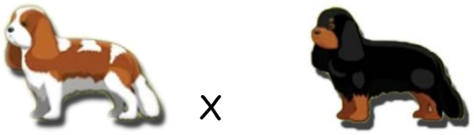
BT with Parti/Red x BT no Parti/with Red

50:50 dom whole colour: whole colour with Parti
50 Black with Red:25 Black no red: 25 Red

How to get the possibility for ALL FOUR COLOURS

Tri with Red gene x Ruby with Parti gene

every pup carries Red gene



Blenheim x BT with Red/Parti genes

every pup carries Red gene

Tri with Red gene x BT with Red/Parti genes

Tri/BT have 50:50 chance of Red gene

Ruby with Parti x BT with Parti/with Red

50:50 Red or Black
25 Ruby/BT no Parti :50 Ruby/BT with Parti: 25 Bl/Tri with Red

BT with Parti/Red x BT with Parti/with Red

50 Black with Red:25 Black no Red: 25 Red
50 Whole Colour with parti:25 dom whole colour:25 Parti

Compliments of the Cavalier Fanciers of Southern Ontario