

Cat Genetics Tutorial Part 1

There are several cat genetics tutorials out there, but they tend to only scratch the surface.

I happen to be fairly knowledgeable about cats and cat genetics, so I decided to create an in-depth cat genetics tutorial, complete with color suggestions, ghost-markings, and wild-type.

Base Colors

Note: 'W' stands for wildtype, which is the original version of the gene.

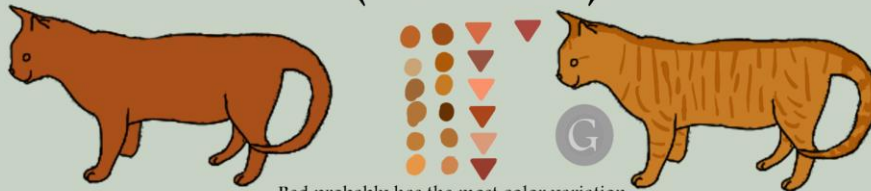
For this tutorial, it is assumed that you already know about Mendelian genetics.

In cats, there are two main base colors, black and red. However, black can have different variations with lower pigment density, creating chocolate and cinnamon. So these four colors are considered the base colors.

Black (B/-) Chocolate (b/-) Cinnamon (b1/b1)



Red (O/O -/-)



Ghost-markings. Ghost-markings are faint tabby markings that show up on cats. How to tell a true tabby from a ghost-marked tabby? Look at the chin and chest. If they are significantly paler, it's a true tabby.

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Cat Genetics Tutorial Part 1.5

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Torties

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A tortie occurs when a female cat has one copy of the red gene. Some patches of fur are red, and some aren't.

Tortie (B/-, O/o) Chocolate Tortie (b/-, O/o) Cinnamon Tortie (b1/b1, O/o)



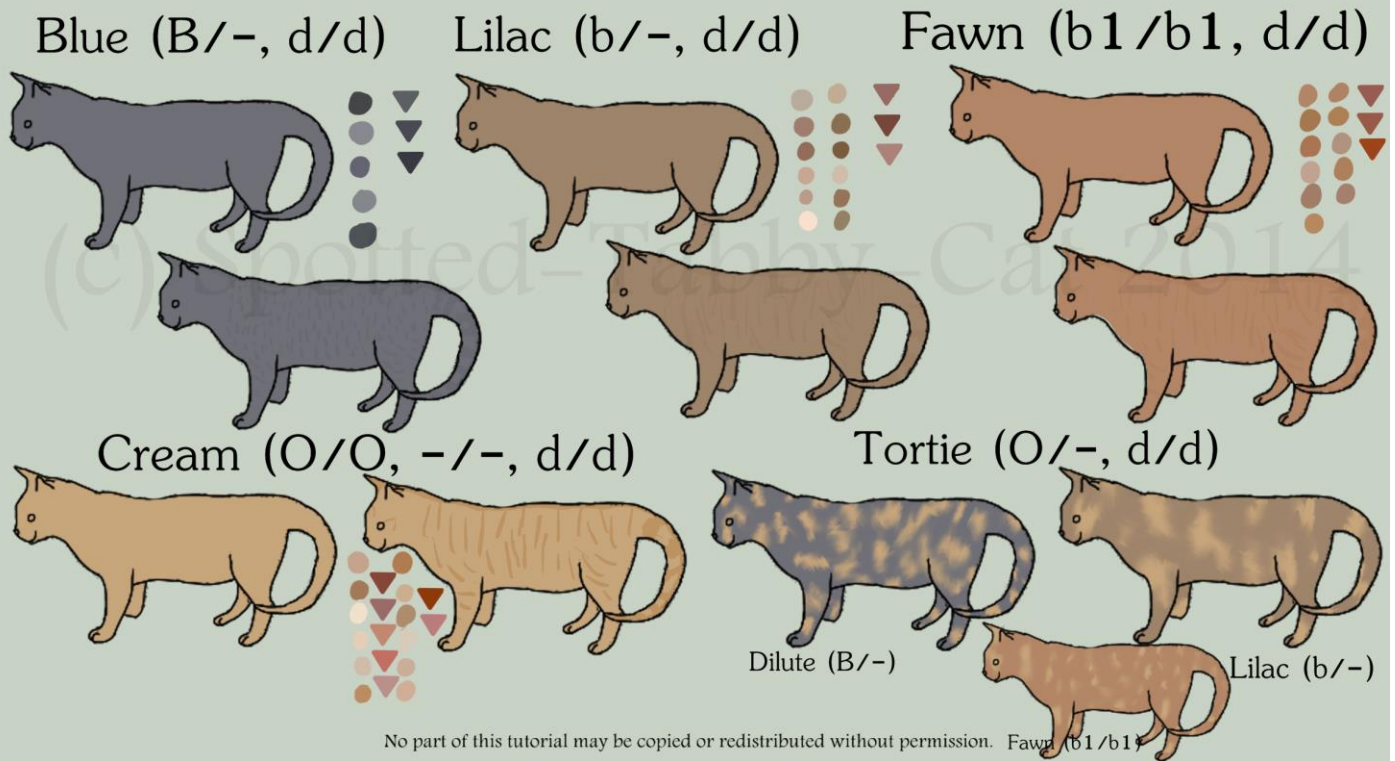
Cat Genetics Tutorial Part 2

Dilute Colors

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Cat Genetics Tutorial Part 3

Tabby/Agouti

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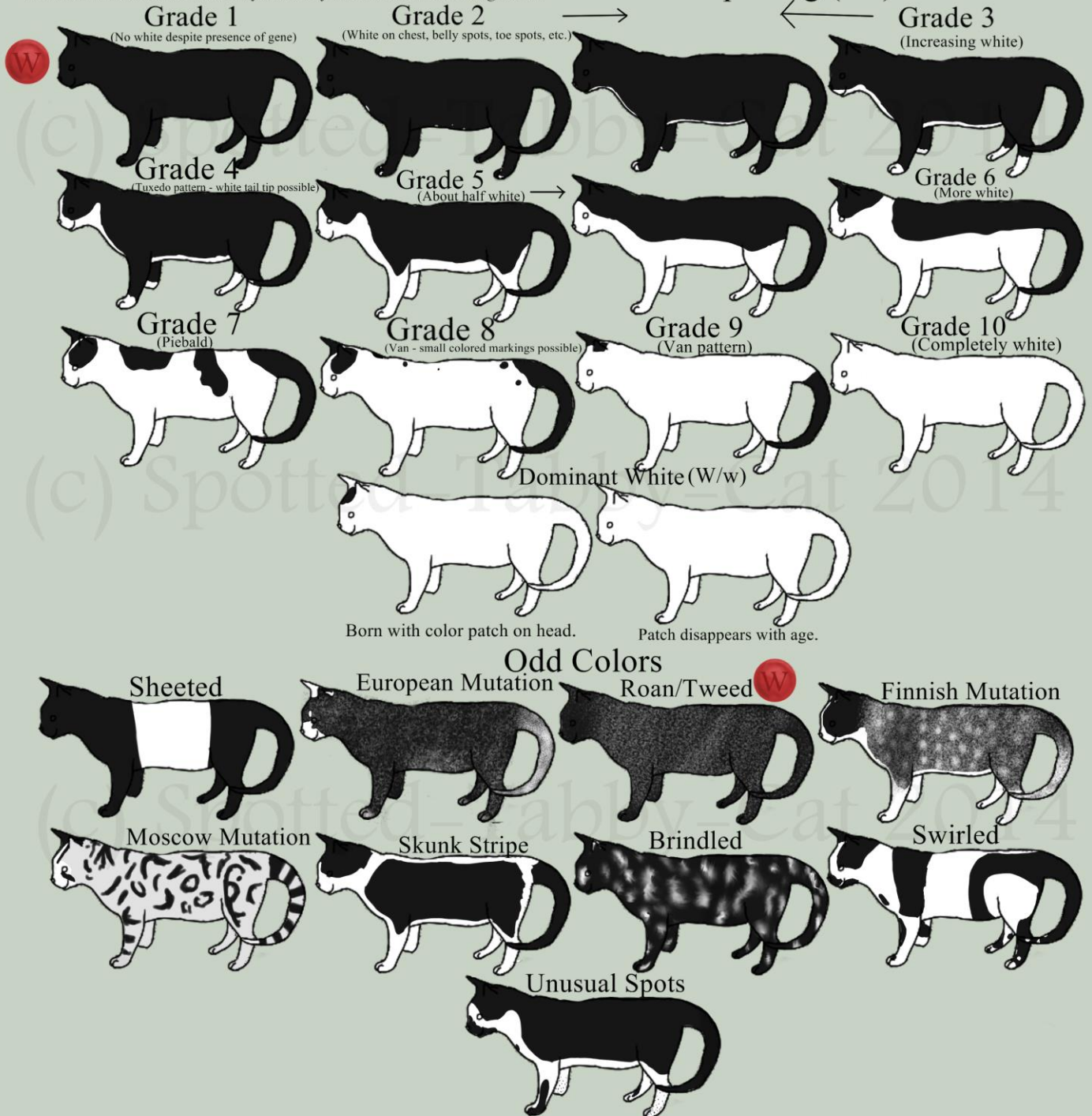
Cat Genetics Tutorial Part 4

White

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White-Spotting (S/s)



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Cat Genetics Tutorial Part 5

Pointism & Albinism

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Siamese (cs/-)

Tonkinese/Mink (cb/cs)

Burmese (cb/-)

Lynx Point (cs/- + A/-)
(alternatively cb/-, cs/cb)

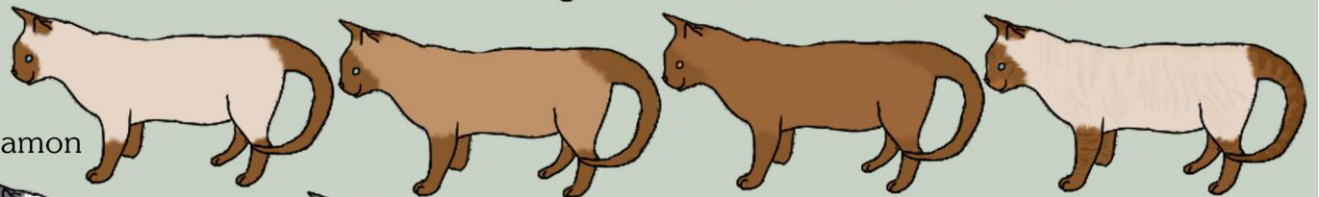
Black



Chocolate



Cinnamon



Blue



Lilac



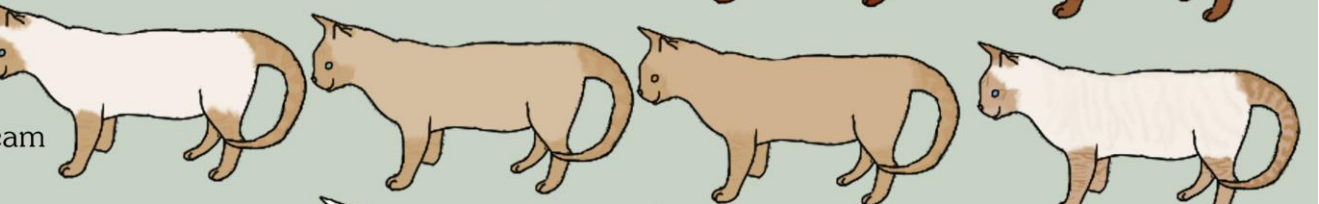
Fawn



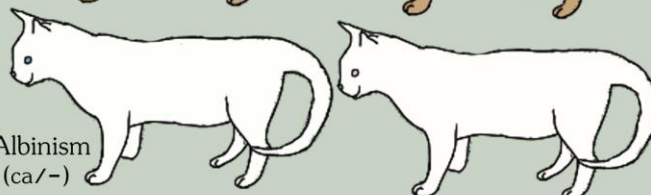
Red



Cream



Blue-Eyed Albinism
(ca/-)



Pink-Eyed Albinism
(c/c)

Cat Genetics Tutorial Part 6

Silver & Gold Series

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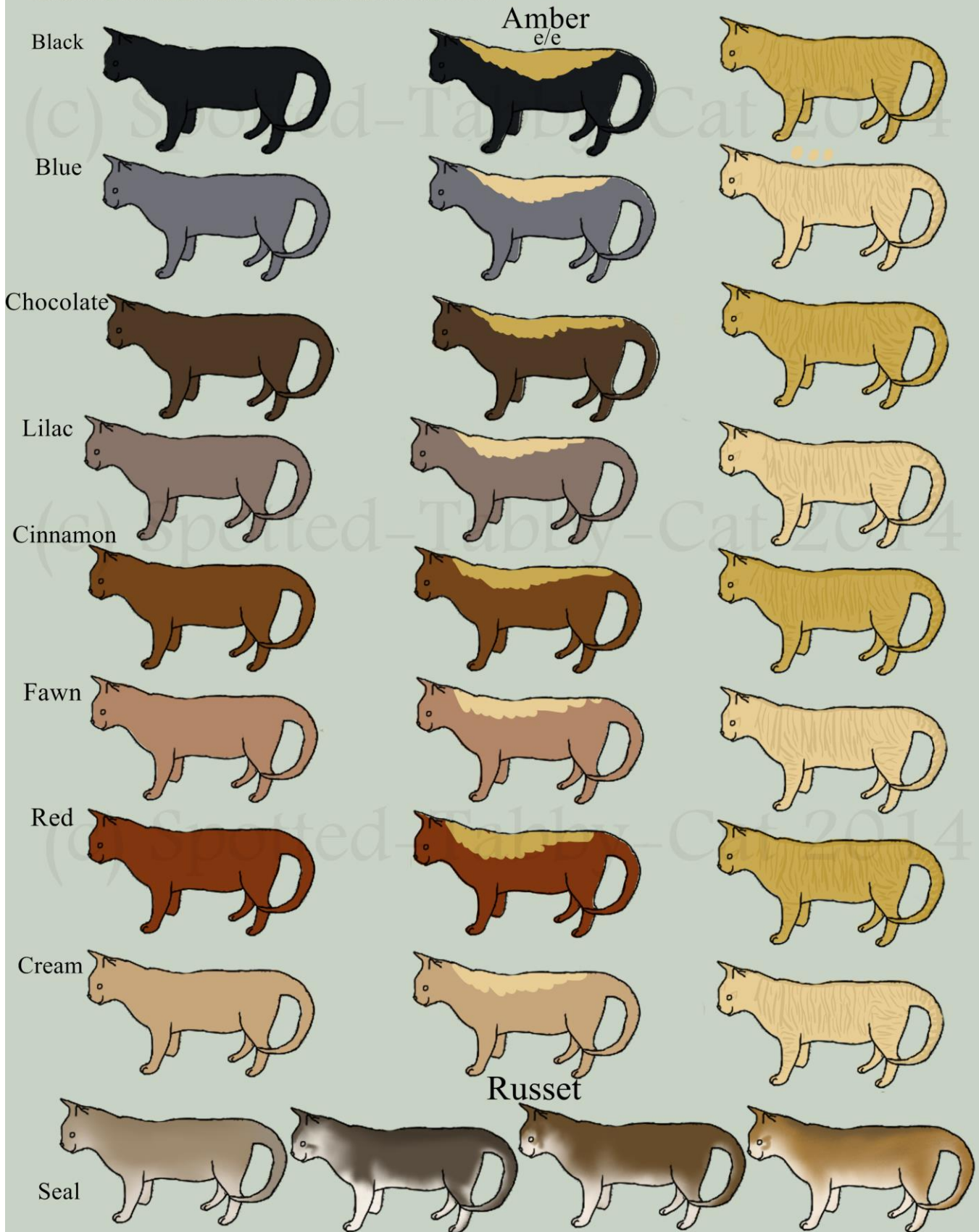
	Silver Series Tabby wb/wb $A/-$	Chinchilla (Tipped) Wb/Wb $A/-$	Shaded Wb/wb a/a	Smoke wb/wb a/a
Black				
Chocolate				
Cinnamon				
Blue				
Lilac				
Fawn				
Red				
Cream				
Golden Series i/i Wb/wb	Wb/Wb	Wb/wb	Wb/wb	
Black				
Chocolate				
Cinnamon				
Blue				
Lilac				
Fawn				
Red				
Cream				

Cat Genetics Tutorial Part 6

Color Changes

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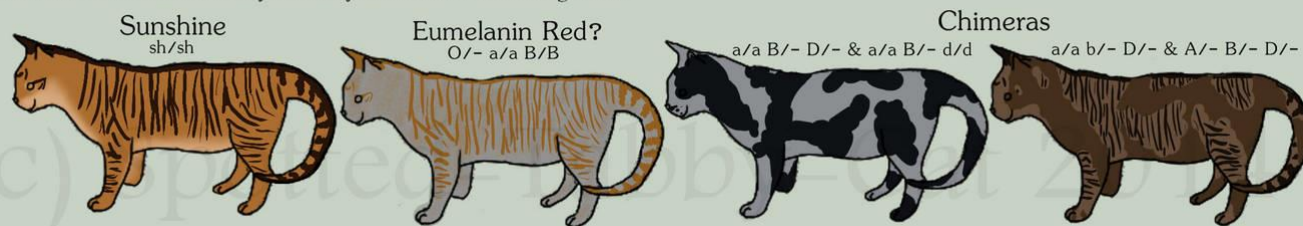


Cat Genetics Tutorial Part 8

Weirdos

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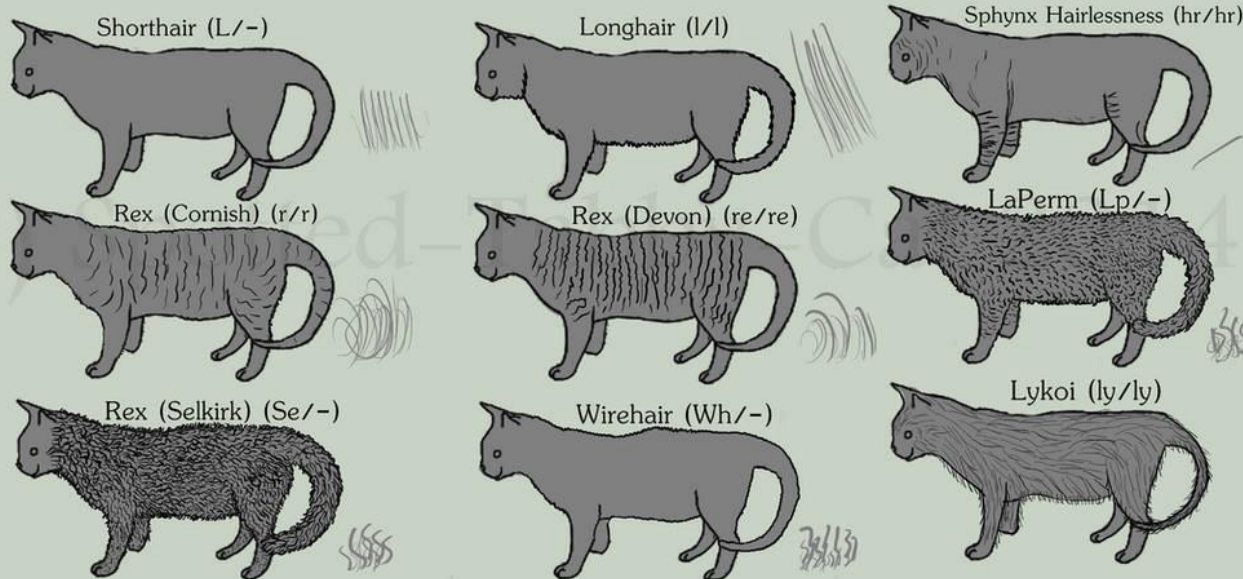
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Cat Genetics Tutorial Part 9

Hair

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Cat Genetics Tutorial Part 10

Tails

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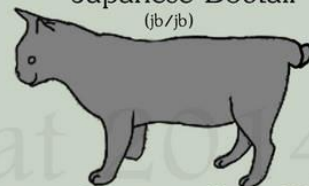
Tailless Manx
(M/m, Homozygous dominant fatal)



Stumpy Manx
(M/m)



Japanese Bobtail
(jb/jb)



Kinky Tail
(?/?)



Curled Tail
(?/?)



Singapore Kinky Half Tail
(Recessive?)



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Cat Genetics Tutorial Part 11

Ears

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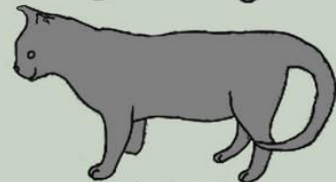
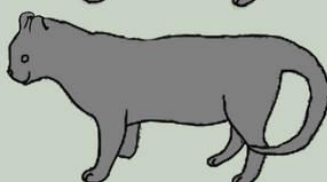
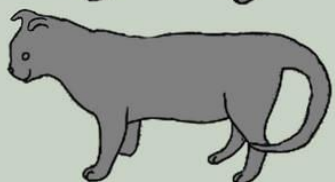
Fold
(Fd/fd, Homozygous fatal)



Curl
(Cu/-)



Double Pinnae ("Four Ears")
(?/?)



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Soft Cartilage

Cat Genetics Tutorial Part 12

Other

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Glitter/Mica
B/- d/d a/a mc/mc?



Satin
B/- a/a st/st?



Birman Gloving
bg/bg?



Polydactylism



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