

Grey Race Simulator Rehab

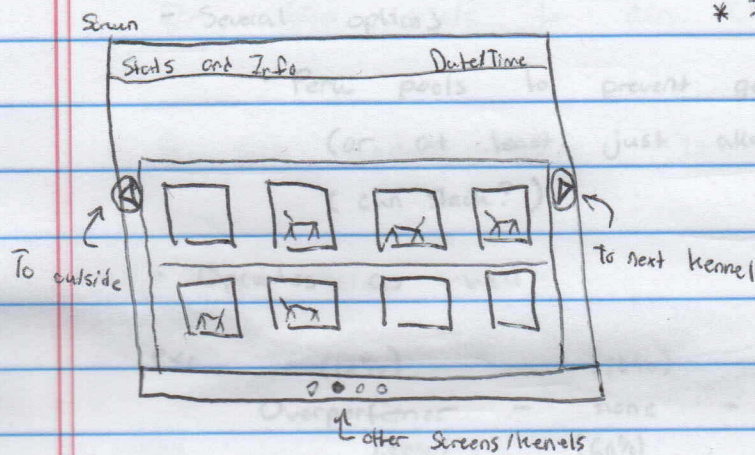
- 2D management simulation for Greyhound Racing / Breeding.
- Goal will be to breed the fastest dog possible to win.
 - will require selection of good dogs to breed for fast offspring
- Gameplay
 - Select dogs from menus to breed and determine if their suitable for racing.
 - Dogs can be selected from external family dogs (to prevent inbreeding)
 - Dogs will either be bred to use, or can be purchased from other breeders
 - Goal will be to win Race in 'A' class (most competitive) to gain most amount of money. (Maybe like F1, dog Champ, ~~and~~ breeder change each year)
 - * Need wins (Champ) in previous league to go up one.
 - Traits to breed for
 - Speed (Top Speed of dog)
 - Stamina (Consistency of Speed)
 - ~~Height~~
 - Height / Weight (Could affect overall speed?) (ratio?)
 - Color (no effect)
 - Guidance (how easily trained / follows race tag)
 - Parenting (how good they are at Siring)
 - will give small bumps to stats of offspring if high parenting.
 - Each Day (or week) * Need to make game not 'drag-on'
 - Can train specific dogs for stat bumps (3 max? There will be a max)
 - Can choose to breed a pair (but can't race for a week)
 - (female can't race for year)
 - (stats degrade heavily due to puppies)
 - Retire dog for adoption
 - Each week Race a maximum number of dogs

Greyt Race

Interface

art will be

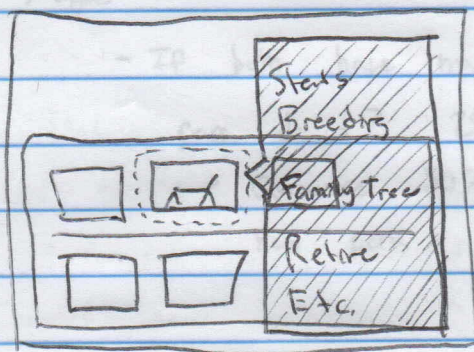
(maybe can be used)
 480×270 scaled to
 1920×1080 very low res



* Include

- Current Day of week / Day (Wednesday 7th)
- Current money
- Grid based Kennels

* Selecting a dog will bring up their Stats on opposite side of screen as well as options (breeding / Training / Retire / etc. Stats / Career)



* Breeding Screen would be a family tree style display

* There will be certain game/age 'genes' that gives boosts and have a chance to pass down the dominant / non-dominant. (over performer for example will make consistency boundary higher above stat)

* Training - Will Increase Favorably (or decrease in the case of variance)

- Speed (top speed)
- Acceleration (time to get to speed)
- Stamina (time spent at top speed before degrading)
- Consistency (variance of stat performances)

actual stat
 $75 \rightarrow 80 \rightarrow 85$

Greyt Race

Breeding Traits

- Several options to run from pulling repo
- Perk pools to prevent getting everything
(or at least just allowing three perks)
(can stack?)

- Opposites as well

ex.	(15%)	(70%)	(15%)	→ uncommon
Overperformer	-	none	- underperformer	
Lucky	(20%)	(60%)	(20%)	→ common
	-	none	- unlucky	
Large (Abnormal)	(5%)	(90%)	(5%)	→ rare
	-	none	- Small (Abnormal)	

- Breeding could be a 50/50 between parents

- Maybe

- If both have matching traits 75% chance to

pass down? 25% to be random new choice

• Otherwise 50% chance to pass down? vs. 50% at

new perk

- Created new repository & docker image logic

- Dogs can be sold and their value will be based on stats and as well as perks. Rare perks will bump up cost significantly.

• Also Added updated versioning to image builders.

- Updated AMI builder with requested parameters and updated VAMH files.

→ Reached consensus with new repo and Jenkins.

Grey Race Cr 12/22/23

Breeding Chance

Scenarios

No Perks

- Generate from

array of Perks

like last page.

(Ex. Below)

At Least One

- 50/50

- 50% generate from array

- 50% parents perk (with small chance failure)?

Two (Both Parents)

→ -75/25

- 75% choose a parents perk

- 25% chance generate from array

Should this be higher for better chance?

Ex. No Parent Perks

Perk	A	B	C	D	E
Positive	20%	35%	15%	10%	5%
Negative	20%	35%	15%	10%	5%
Neutral	60%	30%	70%	80%	90%

Rate (weight)

35	$\frac{35}{100} + \frac{60}{100}$
25	$\frac{25}{100} + \frac{35}{100}$
15	$\frac{15}{100} + \frac{15}{100}$
20	$\frac{20}{100} + \frac{10}{100}$
5	$\frac{5}{100} + \frac{5}{100}$

Chance of Nothing

$\frac{35}{100} \times \frac{60}{100}$	= 22.75%
$\frac{25}{100} \times \frac{35}{100}$	= 7.5%
$\frac{15}{100} \times \frac{15}{100}$	= 2.25%
$\frac{20}{100} \times \frac{10}{100}$	= 2%
$\frac{5}{100} \times \frac{5}{100}$	= 0.25%

= 61.25%

of nothing

14.375 at good

14.375 of bad

0.7% all good or all bad.

0.3875 x ... = 5.81% chance to fill all perk slots

57% chance to get at least one perk (Good or Bad if the same)