

This is not an attack on the industry or any individual educational collection

## What do I mean?

How many herptile species in the world?

8,489 amphibians, 74 families, 558 genera

11,820 reptile species, 92 families, 1226 genera

+2167 subspecies!

# Not that many in captivity though...

NOPE!

- Over **2000** reptile species...\*
- Over 1000 amphibian species...\*

This is a HUGE proportion

HOW can we be teaching with near single digit species to learn with?

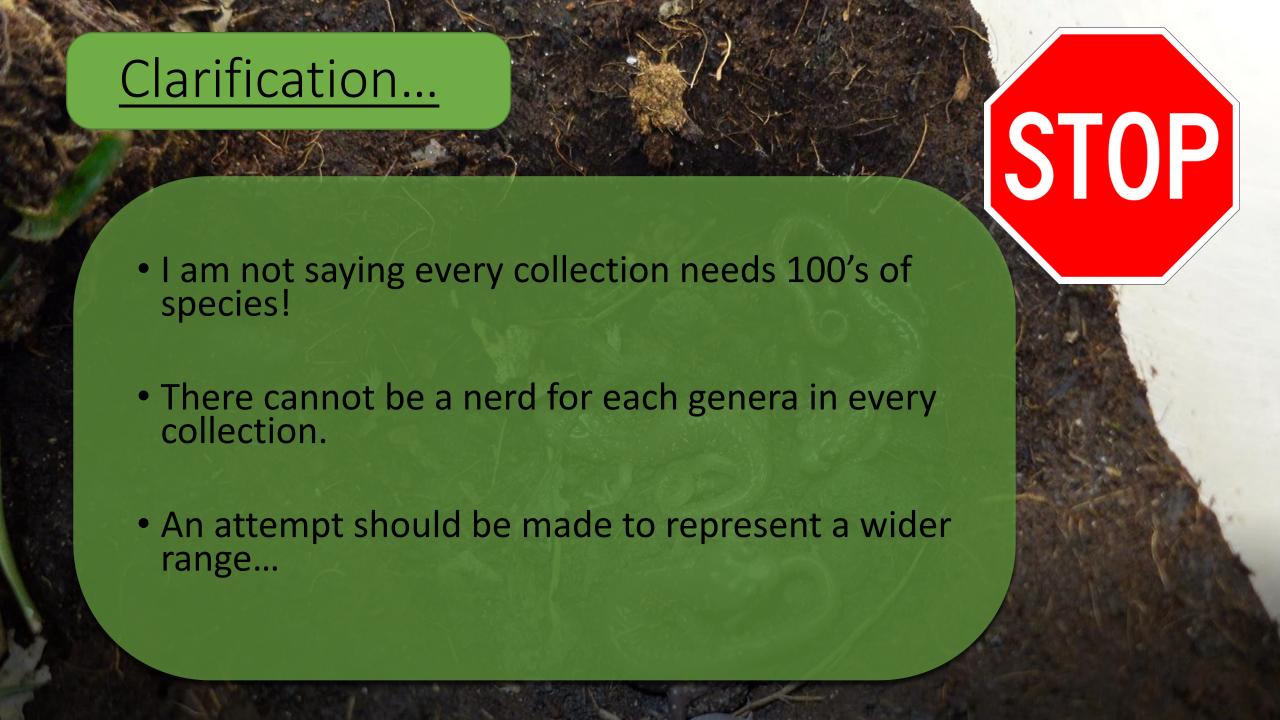
\*According to recent National Geographic Photo Ark data

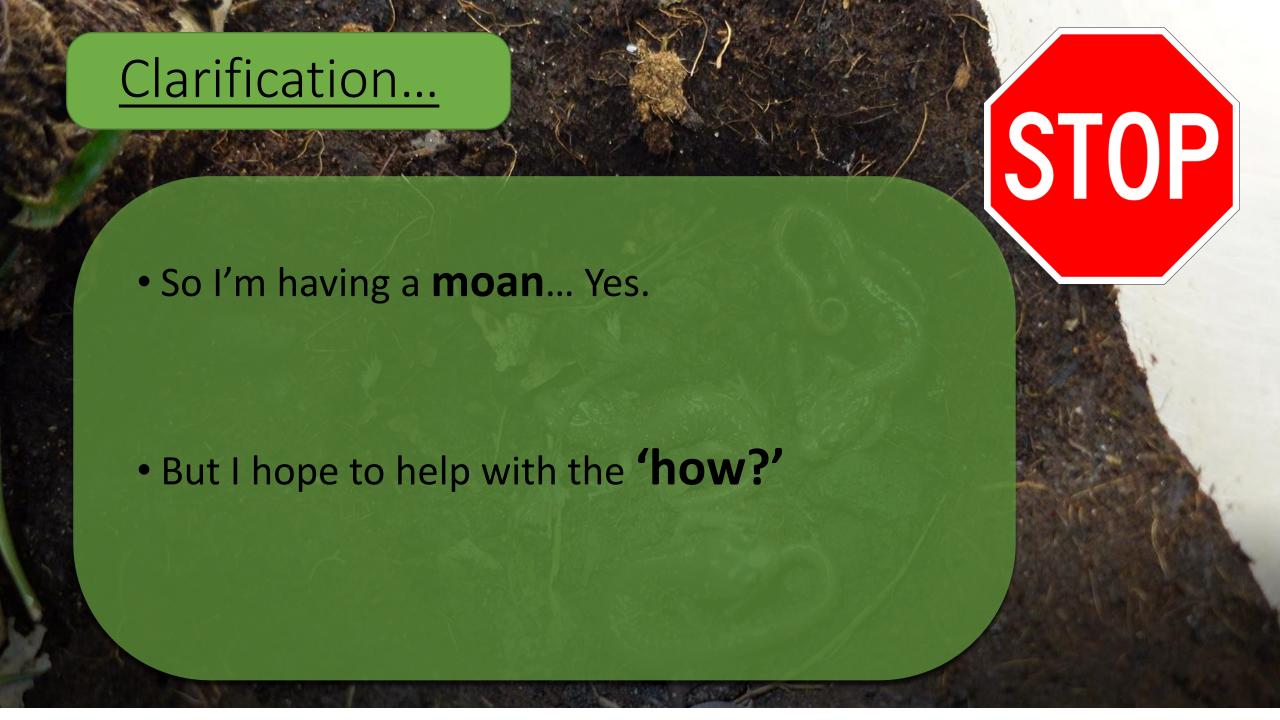


 Corn Snakes, Royal Pythons, Bearded Dragons, Leopard Gecko, Crested Gecko, Pacman Frog, White's Tree Frog... These do not cover care requirements for enough niches!

• ... But their care does need to be covered in depth...

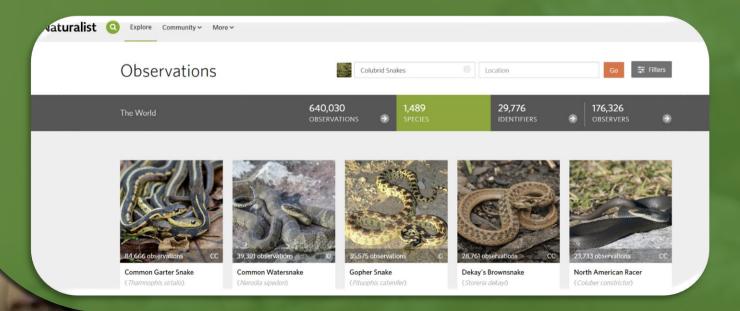
A conundrum





- 1. Take an over represented species
- 2. Move back to its genus or further
- 3. See what other species are in captivity
- 4. Find out what species are ideal (communicate with genera experienced people!)
- 5. Source them & COMMUNICATE WITH THE TRADE

- Pick a species you want and alternative to!
- Corn Snake *Pantherophis guttatus*
- Check out & take note of the Family or Genus!
- Colubridae & Pantherophis



### Colubridae Temporal range: Oligocene to recent



Colubridae species

#### Scientific classification 🥖

Kingdom: Animalia

Phylum: Chordata

Class: Reptilia

Suborder:

Order: Squamata

Superfamily: Colubroidea

Family: Colubridae

Oppel, 1811

Serpentes

- So Colubridae or Pantherophis...
- Head to the Reptile Database by Peter Uetz et al



### THE REPTILE DATABASE

NEW 24 July 2022

- What's new ? (07/22)
- **About**
- Publications
- Many species?
- Links (Related pages)
- Data / downloads
- Data sources, journals
- Editors / SAB / Credits
- Advanced Search











**Amphisbaenians** 



- So Colubridae or Pantherophis...
- Click 'Advanced Search'

ome page	Advanced search		
Advanced search	Please use the following text boxes to conduct your search. To see a complete list of every species in the Reptile Database, leave the text boxes blank and click on 'Search'. To perform an exact match against the parameters you enter, check the boxes beside the fields. More details in <a href="mailto:search tips">search tips</a>		
Search tips			
Contact us	Advanced search		
Global Reptile BioBlitz			
reptile-database.org	Search category	Search input	Exact match
	Higher taxa (e.g. Crocodylia, Sauria, Viperidae, lizard, snake):	colubridae	
	Genus (e.g. Chamaeleo, Oligodon):		
	Species epithet (e.g. elegans, ornatus):		
	Subspecies (e.g. Ablepharus bivittatus lindbergi):		
	Author (e.g. Boulenger, Linnaeus):		
	<b>Year</b> (e.g. 2006):		
	Common name or synonym (e.g. Abronia, Amphibolurus):		
	Distribution (e.g. Madagascar, Florida):		
	Types (e.g. USNM 6769):		
	Reference (author or title keyword):		
		Search	

- So Colubridae or Pantherophis...
- Search the family, take note of the genera within, then start looking through the genera via the Advanced Search

#### arch results

#### Search Parameters

> Higher taxa: colubridae

#### Search results

Species found: 2079

- > Adelophis copei DUGÈS, 1879
- > Adelophis foxi ROSSMAN & BLANEY, 1968
- Adelphicos daryi CAMPBELL & FORD, 1982
- > Adelphicos ibarrorum CAMPBELL & BRODIE, 1988
- > Adelphicos latifasciatum LYNCH & SMITH, 1966
- > Adelphicos newmanorum TAYLOR, 1950
- > Adelphicos nigrilatum SMITH, 1942
- > Adelphicos quadrivirgatum JAN, 1862
- > Adelphicos sargii (FISCHER, 1885)
- Adelphicos veraepacis STUART, 1941
- > Adelphicos visoninum (COPE, 1866)
- > Aeluroglena cucullata BOULENGER, 1898
- > Afronatrix anoscopus (COPE, 1861)
- Ahaetulla anomala (ANNANDALE, 1906)
- <u>Ahaetulla borealis MALLIK, SRIKANTHAN, PAL, D'SOUZA, SHANKER & GANESH, 2020</u>
- <u> Yhaetulla dispar (GÜNTHER, 1864)</u>
  - tulla farnsworthi MALLIK, SRIKANTHAN, PAL, D'SOUZA, SHANKER & GANESH

#### Search results

#### Search Parameters

> Genus: pantherophis

#### Search results

#### Species found: 8

- > Pantherophis alleghaniensis (HOLBROOK, 1836)
- > Pantherophis bairdi (YARROW, 1880)
- > Pantherophis emoryi (BAIRD & GIRARD, 1853)
- > Pantherophis guttatus (LINNAEUS, 1766)
- > Pantherophis obsoletus (SAY, 1823)
- > Pantherophis ramspotti CROTHER, WHITE, SAVAGE, ECKSTUT, GRAHAM & GARDNER, 2011
- > Pantherophis spiloides (DUMÉRIL, BIBRON & DUMÉRIL, 1854)
- > Pantherophis vulpinus (BAIRD & GIRARD, 1853)

- What are some other genera I found to look at?
- Elaphe, Lampropeltis, Nerodia, Oreocryptophis... Lets look at Elaphe

#### earch results

#### Search Parameters

> Genus: elaphe

#### Search results

Species found: 20

- > Archelaphe bella (STANLEY, 1917)
- > Elaphe anomala (BOULENGER, 1916)
- > Elaphe bimaculata SCHMIDT, 1925
- > Elaphe cantoris (BOULENGER, 1894)
- > Elaphe carinata (GÜNTHER, 1864)
- > Elaphe climacophora (BOIE, 1826)
- > Elaphe davidi (SAUVAGE, 1884)
- > Elaphe dione (PALLAS, 1773)
- > Elaphe hodgsoni (GÜNTHER, 1860)
- > Elaphe moellendorffi (BOETTGER, 1886)
- > Elaphe quadrivirgata (BOIE, 1826)
- > Elaphe quatuorlineata LACEPEDE, 1789
- > Elaphe sauromates (PALLAS, 1811)
- > Elaphe schrenckii STRAUCH, 1873
- > Elaphe taeniura (COPE, 1861)
- > Elaphe urartica JABLONSKI, KUKUSHKIN, AVCI, BUNYATOVA, ILGAZ, TUNIYEV ET JANDZIK, 2019
- > Elaphe xiphodonta QI, SHI, MA, GAO, BU, GRISMER, LI & WANG, 2021
- > Elaphe zoigeensis HUANG, DING, BURBRINK, YANG, HUANG, LING, CHEN & ZHANG, 2012
- Pseudelaphe flavirufa (COPE, 1867)

seudelaphe phaescens (DOWLING, 1952)

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• Elaphe... Start researching & finding genus experts through reputable community sources, we then find available, safe, interesting species-

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Elaphe anomala (Korean Rat Snake)

Elaphe bimaculata (Twin-Spotted Rat Snake)

Elaphe climacophora (Japanese Rat Snake)

Elaphe dione (Dione's Rat Snake)

Elaphe schrenckii (Russian Rat Snake)

Elaphe taeniura (Beauty Snake)

# Corn snakes?



Elaphe anomala (Korean Rat Snake)



Elaphe dione (Dione's Rat Snake)



Elaphe bimaculata (Twin-Spotted Rat Snake)



Elaphe schrenckii (Russian Rat Snake)



Elaphe climacophora (Japanese Rat Snake)



Elaphe taeniura (Beauty Snake)

# Bearded Dragons?



Pogona henrylawsoni (Rankins Dragon)

### A wider look at *Agamidae*



Laudakia stellio (Painted Dragon)



Xenagama taylori (Shield Tail Agama)



Uromastyx ornate + sp
(Uromastyx species)



Phrynocephalus mystaceus (Toad Headed Agama)

# Leopard Geckos?



Eublepharis fuscus
(Western Leopard Gecko)

### A wider look at *Eublepharidae*



Eublepharis hardwickii (East Indian Leopard Gecko)



Aeluroscalabotes felinus (Cat Gecko)



Goniurosaurus orientalis (Japanese Cave Gecko)



Holodactylus africanus (African Clawed Gecko)

# Royal pythons?



Antaresia childreni (Children's Python)



Python anchietae
(Angolan Python)

A wider look at **Pythonidae** 



Bothrochilus boa (Bismarck Ringed Python)



Morelia bredli (Bredl's Python)

# Crested Geckos?



Correlophus sarasinorum (Roux's Giant Gecko)



Strophurus ciliaris (Spiny-tailed Gecko)

### A wider look at *Diplodactylidae*



Rhacodactylus auriculatus (Gargoyle Gecko)



Rhacodactylus leachianus (New Caledonia Giant Gecko)

## Bosc monitors?

### A wider look at *Varanidae*



Varanus acanthurus (Spiny-Tailed Monitor)



Varanus beccarii
(Spiny-Tailed Monitor)



Varanus prasinus (Emerald Tree Monitor)



Varanus macraei (Blue Tree Monitor)

# White's Tree Frogs?



Hyla arborea/H. savignyi
(European Tree Frog/Savigny's Tree Frog)



Triprion spinosus (Crowned Tree Frog)

A wider look at *Hylidae & nearby*Anurans NOT via The Reptile Database...



Agalychnis lemur (Lemur Leaf Frog)



Pithecopus hypocondrialis (Tiger Monkey Tree Frog)



Polypedates otilophus (Borneo Eared Frog)

# Mongolian Gerbils?

### A wider look at *Meriones & nearby*



Meriones persicus
(Persian Jird)



Meriones shawi (Shaw's Jird)

+ way more!



Gerbillus cheesmani (Cheesman's Gerbil)



# Why?

Yes morphs can cover the aesthetics, but what does that help? Line pockets? A range of morphs =/= species diversity.

But is the education sector not also dealing with some conservation?

We can support this on the captive side by aiding zoos & keepers in establishing & maintaining captive populations of lesser kept species.

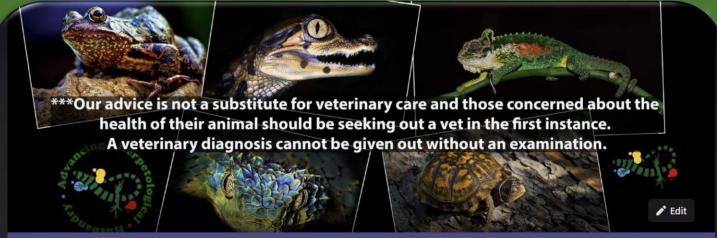
Remember that there is not enough space in zoos for conservation...

Student passion effect? Public interest effect?

## Reputable?







- Advancing Herpetological Husbandry
- Advancing Herpetological Husbandry
  - Events
- Not Just a Pet Rock (Python regius)
- How Not to Slay The Dragon –
   Pogona vitticeps
- Advancing Amphibian Husbandry
- Giant Leaps in Giant Husbandry
- Reptile Lighting
- Herp HQ (FB & Youtube)
- UK Animal Care Technicians (UKACT)
- Skinks UK
- Bioactive Vivaria Worldwide
- Herping the Globe
- European Reptiles and Amphibians Husbandry Group

Advancing Herpetological Husbandry

Private group · 32.3K members

Group by Advancing Herpetological Husbandry - Events