# Cheatography

## Biodiversity Cheat Sheet by Becky B (Beckyb9) via cheatography.com/141887/cs/30508/

#### What is Biodiversity?

Biodiversity is a term used to describe the enormous variety of life on Earth. It can be used more specifically to refer to all of the species in one region or ecosystem. Biodiversity refers to every living thing, including plants, bacteria, animals, and humans.

#### Biodiversity components

Ecological diversity	Biomes, Bioregions, Landsc- apes, Ecosystems, Habitats, Niches, Population
Organismal diversity	Kingdom, Phyla, Families, Genera, Species, Subspe- cies, Population, Individual
Genetic diversity	Population, Individual, Chromosome, Genes, Nucleotides

#### Convation of Biodiversity

Convention on Biodiv-	www.cbd.int
ersity link	
Set up in 1988 by United	Have a group
Nations Environnent	of experts and
Programme (UNEP)	scientists
Need to share costs between	n developed

Need to share costs between developed and developing countries

It represents a dramatic step forward in the conservation of biological diversity, the sustainable use of its components, and the fair and equitable sharing of benefits arising from the use of genetic resources.

1992- 1993 received 168 signatures committing to change

#### **Ecological diversity**

The variation in both terrestrial	Looking
and <b>aquatic</b> ecosystems.	at
Ecological diversity can also take	diversity
into account the variation in the	at a
complexity of a biological	broder
community, including the number	scale
of different <b>niches</b> , the number of	
and other ecological processes.	

#### **Ecological diversity (cont)**

The approuch we **now** use to look at conserving diversity

Can be dificult to distin-	Wetland,
guish between different	Moors, Chalk
Bimoes	Grassland
Has a wide range of	Can be within

Has a wide range of different species

Can be within a very small area

#### Organismal diversity

About the number and types of different individual species out there.

Classific-	Linked to line
ation of	
species into	
groups	

Full	Names are meant to
taxonomic	represent their decent.
diversity	Understanding about
	species.

#### Genus name change

Example of a Tomato plants name change and how using linage can get confusing

1753: Linnaeus- Solanum lycopersicum

1768: Miller- Lycopersicon esculentum

1881: Karst- Lycopersicon lycopersicum

1974: Nicolson- Lycopersicon lycopersicum

1983: Lycopersicon esculentum (Miller)

2001: Peralta & Spooner- Genetics put it in

the *Solanum* genus

Ongoing conflict with the name- including in the literature

#### **Genetic Diversity**

What makes a	How does one
species the	individual differ from
species it is?	another?
Can be a different	This is why Donkeys
number of	and Horses can't
Chomesones	always mate

#### Benefits of genetic diversity

Different varieties of wheat:

- > Environmental preferences
- > Seasonal preferences (winter)
- > Heat and drought tolerance
- > Yield
- > Resistance to disease or pests
- > Protein content

Utilise wild and	Genetic breeding
alternative	and/or Genetic Modifi-
varieties	cation

#### **Genetic Subspecies of Tiger**

Genetic tests	Identified 6 subspecies
2004	of tigers (and 3 extinct)

Geographic isolation and morphological characteristics

Bengal tiger, Amur tiger, South China tiger, Sumatran tiger, Indochinese tiger, and Malayan tiger

Split around	natural selection to
100,000 years	adapt to different
ago	habitats.

Very little gene flow between subspecies

### Conervation can be hard

Can't save every species	Need to prioritise
Different threats	Some might be threatened by land use other by poaching. Need to focus on one problem rather than multiple
If fousing on one Subspecies you don't have to travel as much as if you looked at the whole	Which is the most beneficial to save



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Published 20th January, 2022. Last updated 20th January, 2022. Page 1 of 1. Sponsored by **ApolloPad.com**Everyone has a novel in them. Finish
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