

Variation & Classification

1

Species and Variation

- Living things of the same type belong to the same species.
- Variation means differences within a species.
- A dog is one species, but there are many different types of dog.
- Collie, Terrier and Labrador are all one species, but there is a lot of variation between them.



2

Variation

- What variation is there in these domestic cats?



- Eye colour, size, colour and length of fur are all variations.

3

Human Variation

- Humans are a species, but there is a lot of variation within our species.
- Eye and skin colour, height, arm span and blood group are all variations.



4

What is a Species?

- Species often have very different characteristics. But some species are very similar, like horses and donkeys.
- It gets confusing, so we need a definition.

The definition we use is:

- A species is a group of organisms that can breed together and have offspring. The offspring can also breed.
- Horses and donkeys are different species. They can breed together, but their offspring (a mule) cannot breed. So, mules are not a species.



5

Characteristics

- Many characteristics are passed down from generation to generation.
- These characteristics are inherited.
- Skin colour, eye colour and hair colour are all inherited from our biological parents.



6

Inheriting Variation

But...

- We are not identical to either parent. We show variations.



Variation And Classification

Laura Leal-Taixé, Stefan Roth

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Computer Vision - ECCV 2018 Workshops Laura Leal-Taixé,Stefan Roth,2019-01-22 The six volume set comprising the LNCS volumes 11129 11134 constitutes the refereed proceedings of the workshops that took place in conjunction with the 15th European Conference on Computer Vision ECCV 2018 held in Munich Germany in September 2018 43 workshops from 74 workshops proposals were selected for inclusion in the proceedings The workshop topics present a good orchestration of new trends and traditional issues built bridges into

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