Ω : sample space

 $X_2:\Omega\to\mathbb{R}$

 $X_2() = 1.02$

 $X_2(\ \ \)=17.4$

...

"weight of the animal in kg"









 $X_3:\Omega\to\mathbb{N}^+$

"fur colour of the animal"

 $X_2()$

 $X_2(\mathbf{v})=3$

(1: yellow, 2: blue, 3: orange, ...)

 $X_1:\Omega\to\mathbb{R}$

"height of the animal in cm"

 $X_1() = 9.6$

 $X_1(\ \) = 72.8$

...