

# Input

## Annotated Image Dataset




Airplane	1	1	1
Airplane_Flying	0	1	1
Sky	0	1	1
Ground	1	0	0

## A Content to be Analysed



## Step 1: Knowledge Extraction

- 1– We choose a semantic concept as a context: **Airplane\_Flying**
- 2– We focus on the sub-matrix where **Airplane\_Flying** is defined



Airplane	1	1	1
<b>Airplane_Flying</b>	0	1	1
Sky	0	1	1
Ground	1	0	0

- 3– We compute similarities between the other concepts within the define sub-matrix

$$\text{sim}(\text{Airplane}, \text{Sky}) = 1$$

$$\text{sim}(\text{Airplane}, \text{Ground}) = 0$$

- 4– We consider then that **Airplane\_Flying** is a context