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

We choose a semantic concept as a context: **Airplane_Flying**

We focus on the sub-matrix where **Airplane_Flying** is defined

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

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

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

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

We consider then that **Airplane_Flying** is a context