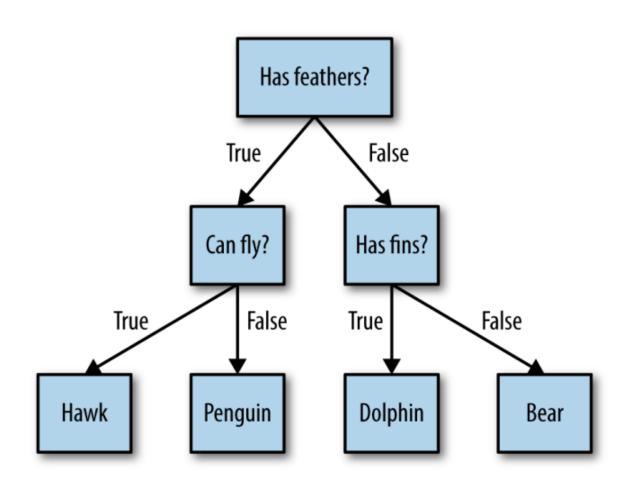
### **Decision Trees - Intuition**

Dr. Muhammad Wasim

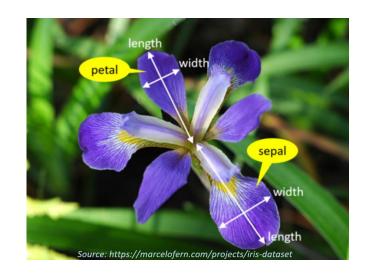
### Decision Tree Intuition



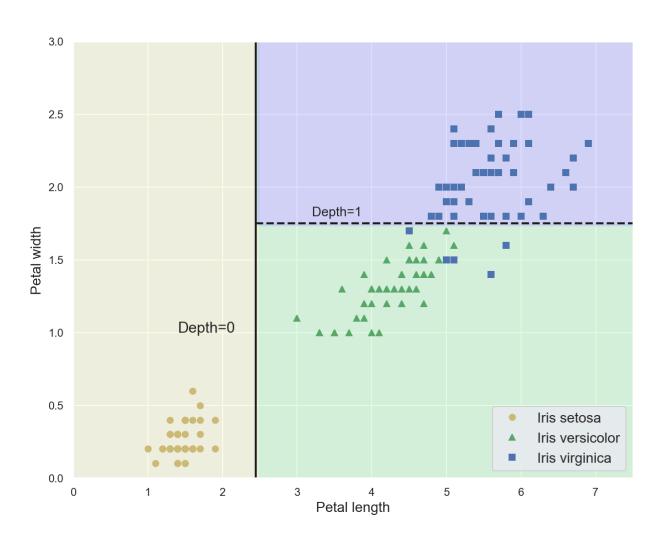
## Iris Plant Categories

#### Can you identify different types of Iris flowers?

Sepal Length	Sepal Width	Petal Length	Petal Width	Туре
5.1	3.5	1.4	0.2	Iris setosa
4.9	3.0	1.4	0.2	Iris setosa
7.0	3.2	4.7	1.4	Iris versicolor
6.4	3.2	4.5	1.5	Iris versicolor
6.3	3.3	6.0	2.5	Iris virginica
5.8	3.3	6.0	2.5	Iris viginica



# Decision Boundary in a Decision Tree



# An Example Dataset

<b>Loves Popcorn</b>	Loves Soda	Age	Loves A Movie
Yes	Yes	7	No
Yes	No	12	No
No	Yes	18	Yes
No	Yes	35	Yes
Yes	Yes	38	Yes
Yes	No	50	No
No	No	83	No