# Preliminary Work Meta-Learning

## Meta Learning

Machine Learning ≈ 根據資料找一個函數 f 的能力



#### **Meta Learning**

≈根據資料找一個找一個函數f的函數F的能力

$$F($$
  $\frac{1}{\text{cat}}$   $\frac{1}{\text{dog}}$   $\frac{1}{\text{cat}}$   $\frac{1}{\text{dog}}$   $\frac{1}{\text{dog}}$   $\frac{1}{\text{cat}}$   $\frac{1}{\text{dog}}$   $\frac{1}{\text{dog}}$   $\frac{1}{\text{cat}}$   $\frac{1}{\text{cat}}$   $\frac{1}{\text{dog}}$   $\frac{1}{\text{cat}}$   $\frac{1}{\text{dog}}$   $\frac{1}{\text{cat}}$   $\frac{1}{\text{cat}}$   $\frac{1}{\text{dog}}$   $\frac{1}{\text{cat}}$   $\frac{1}{\text{cat}}$ 



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Different decisions in the red boxes lead to different algorithms. What happens in the red boxes is decided by humans until now.



