

And Jhon Infers ...

If today is **rainy**, then carry an **umbrella**, otherwise, **do not**.

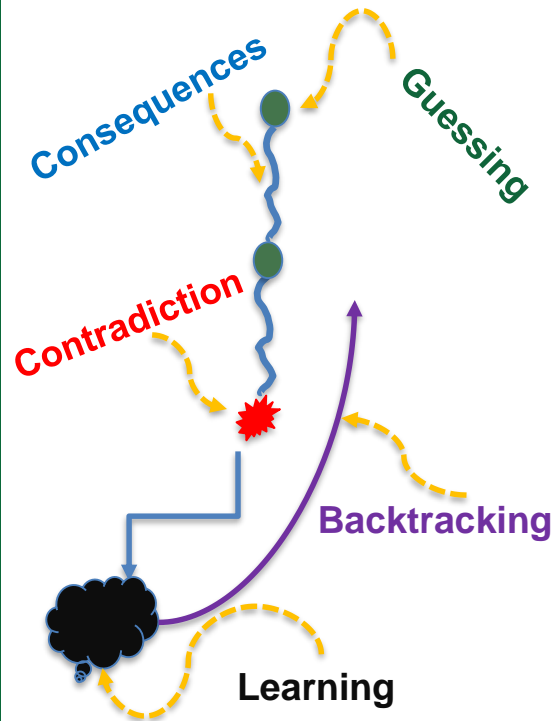
SAT Solving

Rainy OR **Sunny**
not Rainy OR not **Sunny**
not **Sunny** OR not **tkUmbrella**
not Rainy OR **tkUmbrella**

**SAT
Solver**

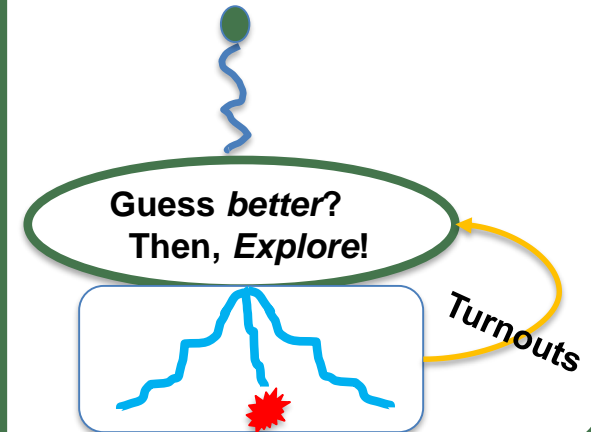
Rainy, not **Sunny**, **tkUmbrella**.
Sunny, not Rainy, not **tkUmbrella**.

CDCL SAT Solving



- Fast Contradiction Discovery.
- High Quality Contradiction.

Explore to Guess Better



Evaluation and Potential

First evaluation shows
Potential ...

Number of interesting **Future
Directions ...**