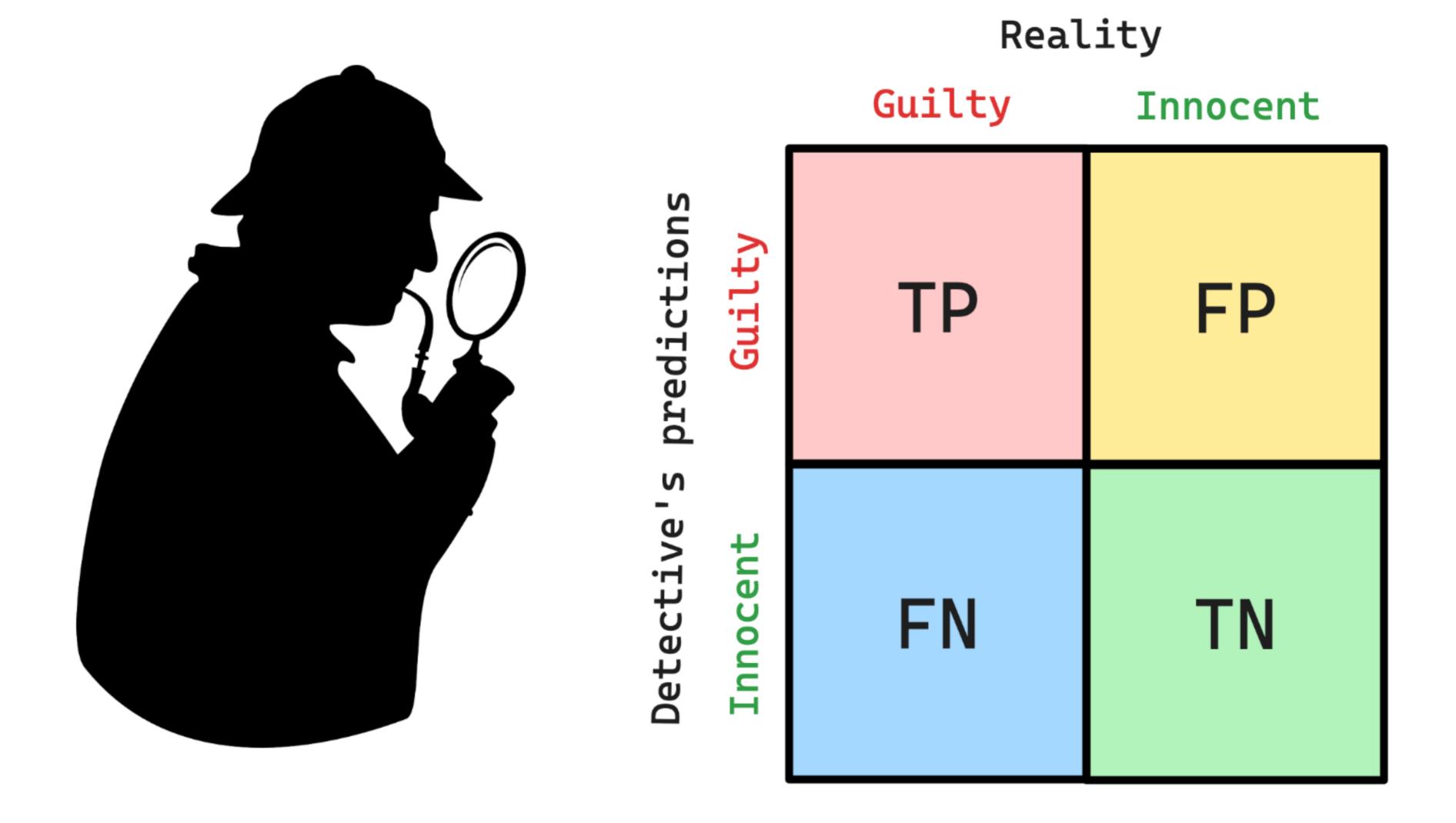
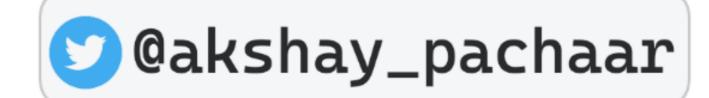
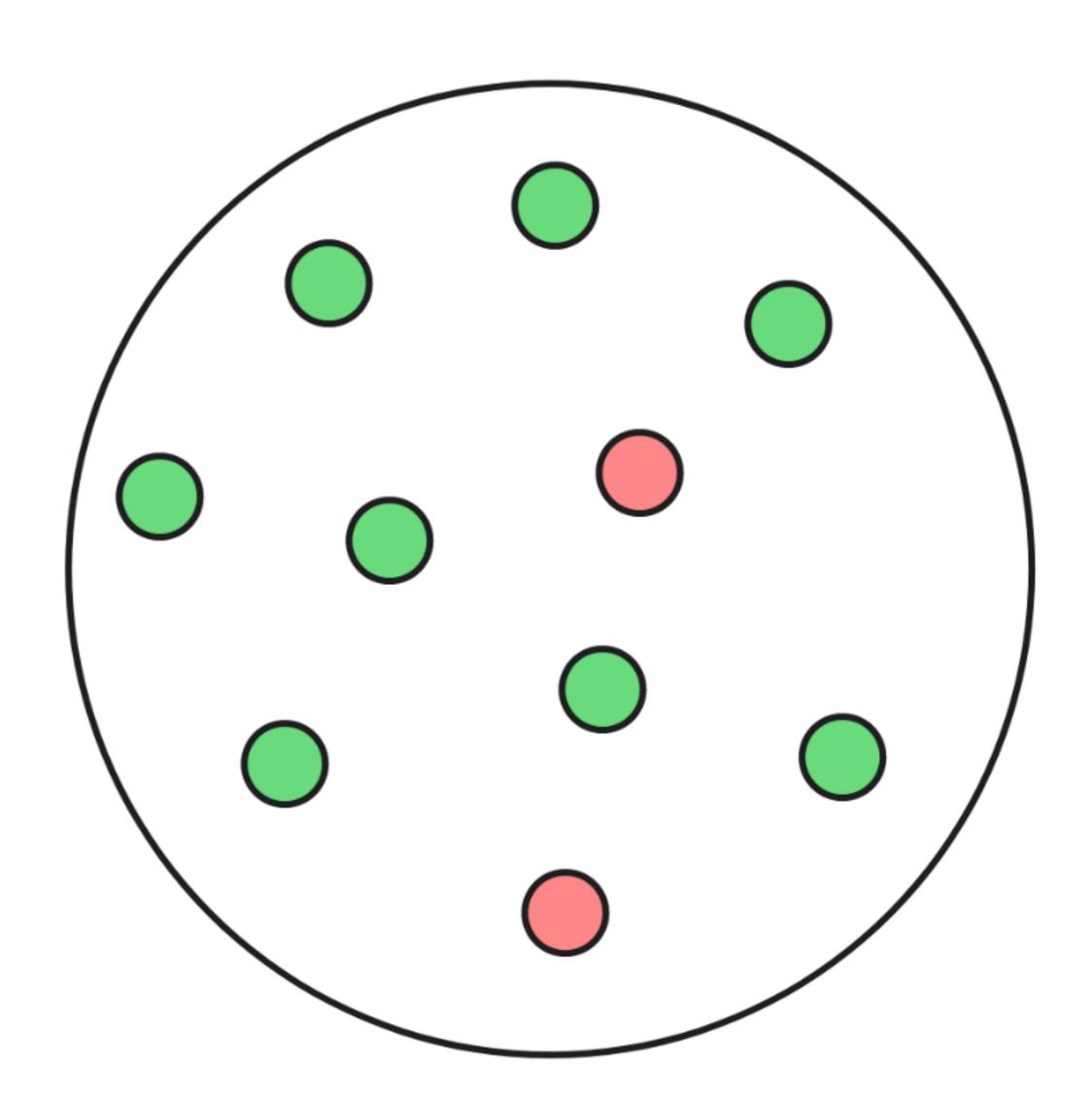
Precision/Recall clearly explained!





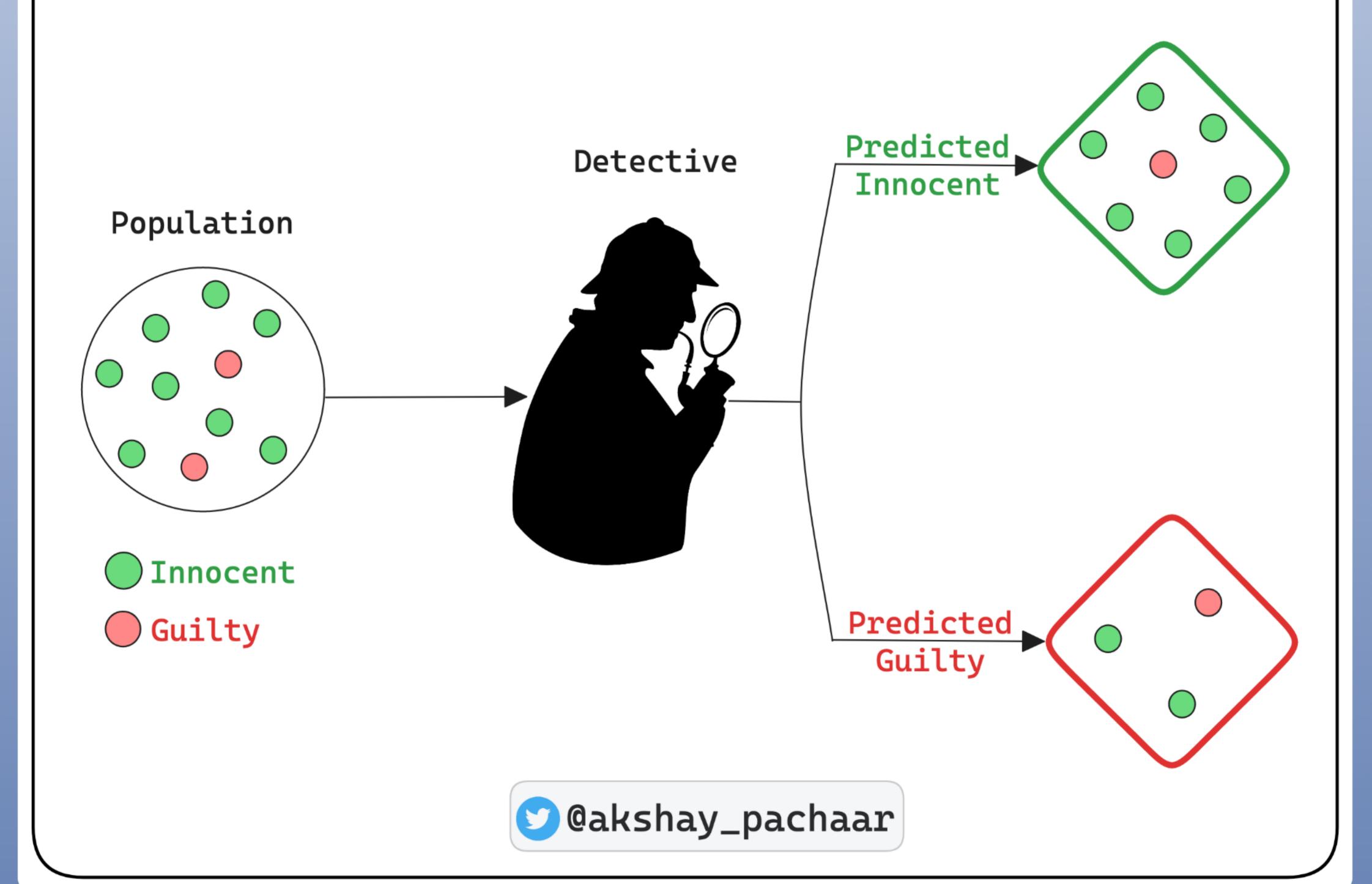
Population

- Innocent
- Guilty

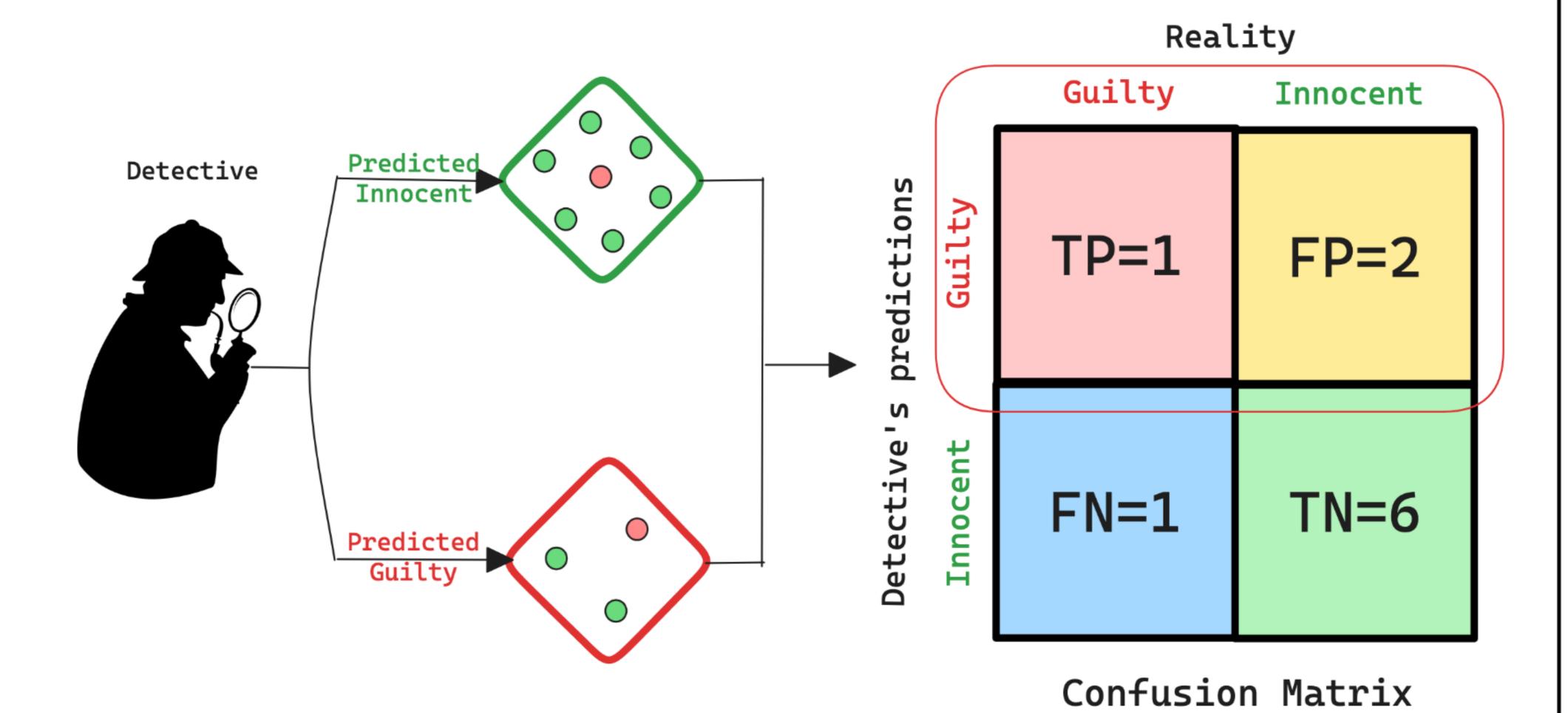




Detectives's Investigation



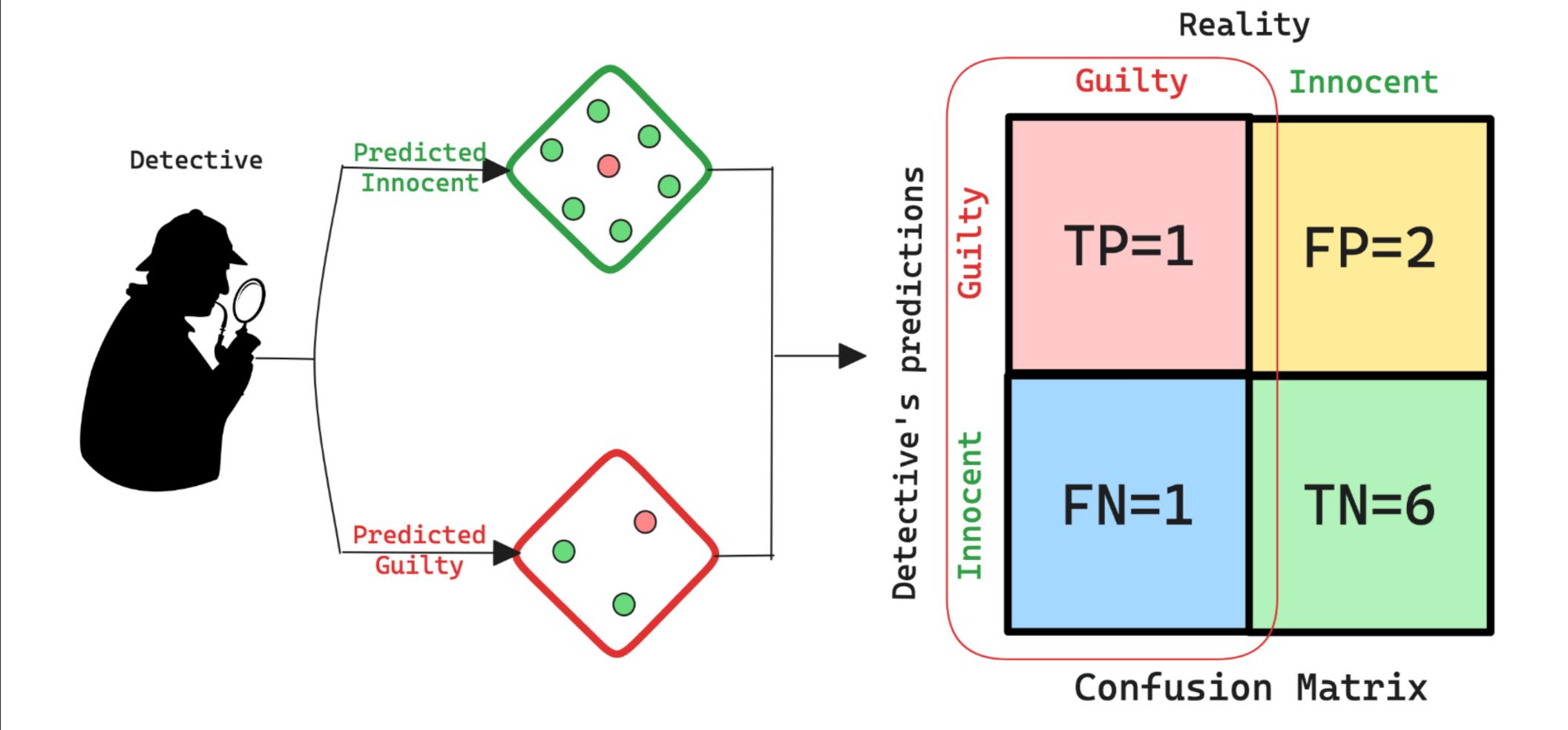
Precision



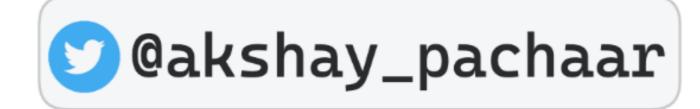
- Our detective accused 3 but only 1 is truly guilty.
- True Positives are 1. (TP: guilty accused guilty)
- O False Positives are 2.(FP: innocent accused as guilty)
- O Precision is TP / (TP+FP) = 1 / (1+2) = 0.33. $\frac{1}{3}$



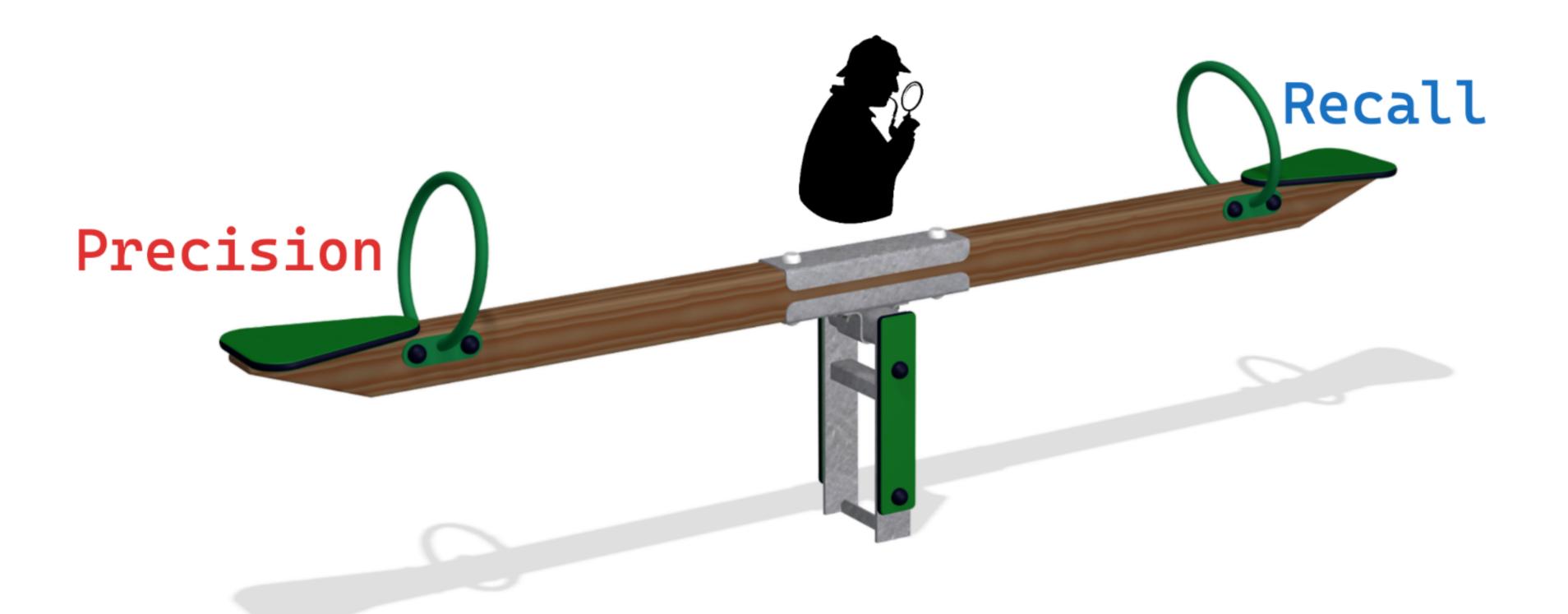
Recall



- Our detective was able to find only 1/2 guilty parties
- True Positives are 1. (TP: guilty accused guilty)
- O False Negatives are 1.(FN: guilty but not accused)
- \bigcirc Recall is TP / (TP+FN) = 1 / (1+1) = 0.50 \bigcirc

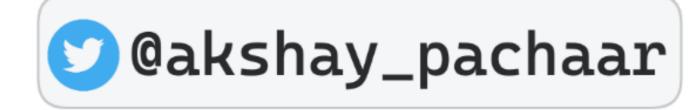


Striking a balance



Let's consider two scenarios:

- 1. In a small, peaceful town, false accusations might cause social unrest, so the detective may aim for higher Precision.
- 2. In a crime-ridden city, catching all criminals is crucial, favouring higher Recall.



Thank You!



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