

* True Positive Rate (TPR), Recall, or Sensitivity

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- * Precision

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- * Precision

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- * F-1 Score

F1 = Harmonic Mean (Precision, Recall)

* Arithmetic Mean

$$\frac{1}{2} (\text{Precision} + \text{Recall}) = \frac{1}{2} \left(\frac{TP}{TP + FP} + \frac{TP}{TP + FN} \right)$$

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* Geometric Mean

$$(\text{Precision} \times \text{Recall})^{\frac{1}{2}} = \left(\frac{\text{TP}}{\text{TP} + \text{FP}} \times \frac{\text{TP}}{\text{TP} + \text{FN}} \right)^{\frac{1}{2}}$$

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* F-1 Score or Harmonic Mean

$$2 \times \frac{\text{Precision} \times \text{Recall}}{\text{Precision} + \text{Recall}} = \frac{\text{TP}}{\text{TP} + \frac{1}{2} (\text{FP} + \text{FN})}$$

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- * Precision

$$\text{Precision} = \frac{\text{TP}}{\text{TP} + \text{FP}}$$

- * F-1 Score

$$\text{F1} = \frac{\text{TP}}{\text{TP} + \frac{1}{2}(\text{FP} + \text{FN})}$$