**Error Metrics for Skewed Classes**

A series of real numbers that evaluate a learning algorithm

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| Skewed classes – Having a lot of examples from 1 class than from other class |
| **Solution: Precision/Recall** |
| Let y=1 in presence of rare class that we want to detect  **Precision** = #actual in rare class / # predicted as rare class  **Recall** = #correctly detected as rare class for all rare class |
| **Trading off precision and recall** |
| Classify as 1 only if confident: Raise h(x) >= 0.5 to h(x) >= 0.7 to raise precision  Avoid misclassify as 0. Decrease the threshold to 0.3      P.S: Data test on cross validation set, chose the one that maximize the F1 score |
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