


# ORES Custom Documentation VI

*Disclaimer: No guarantee for the correctness of information / explanations / sources is given.*

## Goals

1. Metrics List: Create Table as a general quickview ✓
2. Metrics: which combinations are particularly useful, which are nonsensical?
  - Ask for documentation on IRC (✓)
  - Logically exclude combinations?
  - Document outputs
3. Recent Changes filter classes: how are edits assigned to them?
  - Also ask for documentation on IRC ✓
  - Which metrics are included in the process? ✓
  - How are the metrics (precision, recall, threshold) included in the associated API calls? What do the (GET?)-Requests look like?
4. Take a closer look at the Threshold Plot for Logistic Regression (Link)
  - What is the meaning of the areas around the curves?
  - What is queue rate exactly?
5. Take a closer look at the Swagger API Documentation
6.  Improve knowledge of ORES Docs and foremost the metrics

## 1 Metrics List: Table

Metric	Quick Definition	Value
accuracy	Portion of correctly predicted data	$\frac{TP+TN}{Total}$
counts	Number of <b>F&amp;T</b> -labels and predictions	
f1	Harmonic mean of recall and precision	$2 * \frac{rec*prec}{rec+prec}$
filter_rate	Portion of observations predicted to be negative	$1 - match\_rate = \frac{TN+FN}{Total}$
fpr	Probability of a false alarm	$\frac{FP}{FP+TN}$
match_rate	Portion of observations predicted to be positive	$\frac{TP+FP}{Total}$
pr_auc	Measure of classification performance	
precision	Ability to find only relevant cases	$\frac{TP}{TP+FP}$
rates	Proportion of <b>F&amp;T</b> -labels to the total	
recall	Ability to find <b>all</b> relevant cases	$\frac{TP}{TP+FN}$
roc_auc	Measure of classification performance	
!f1	Negated f1	$2 * \frac{!rec*!prec}{!rec+!prec}$
!precision	Negated precision	$\frac{TN}{TN+FN}$
!recall	Negated recall	$\frac{TN}{TN+FP}$

## 2 Metrics combinations

example: [https://ores.wikimedia.org/v3/scores/enwiki/?models=damaging&model\\_info=statistics.thresholds.true.%27maximum%20!precision%20@%20precision%20%3E=%200.9%27](https://ores.wikimedia.org/v3/scores/enwiki/?models=damaging&model_info=statistics.thresholds.true.%27maximum%20!precision%20@%20precision%20%3E=%200.9%27)

## 3 Recent Changes Quality Prediction Filters

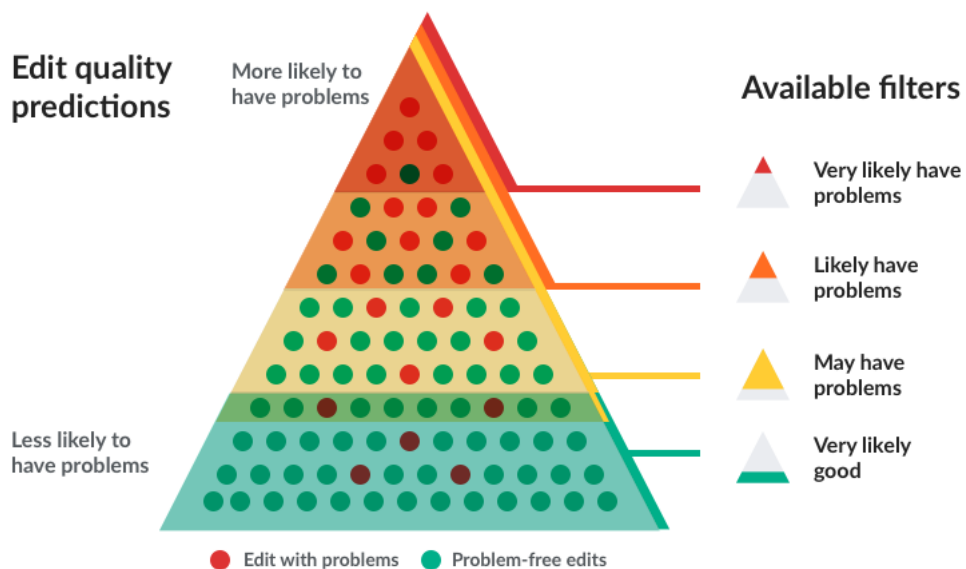
The Recent Changes quality prediction filters are a helpful tool in varying the precision and recall of catching damaging edits. They can be applied on the Recent changes site (Link).

## Contribution quality predictions

Filter	Precision	Recall	Threshold range	
Very likely good	99%	91.1%	0	0.315
May have problems	15%	86.3%	0.144	1
Likely have problems	45.7%	48.1%	0.612	1
Very likely have problems	90%	8.2%	0.912	1

Wikipedia Source

To put those numbers into context: we can expect that, for example, the *Likely have problems* filter will be right about 45.7% of the time, classifying a contribution as damaging while catching 48.1% of problem edits. To better understand threshold ranges it's helpful to also take a look at the following graphic:



Wikimedia Source