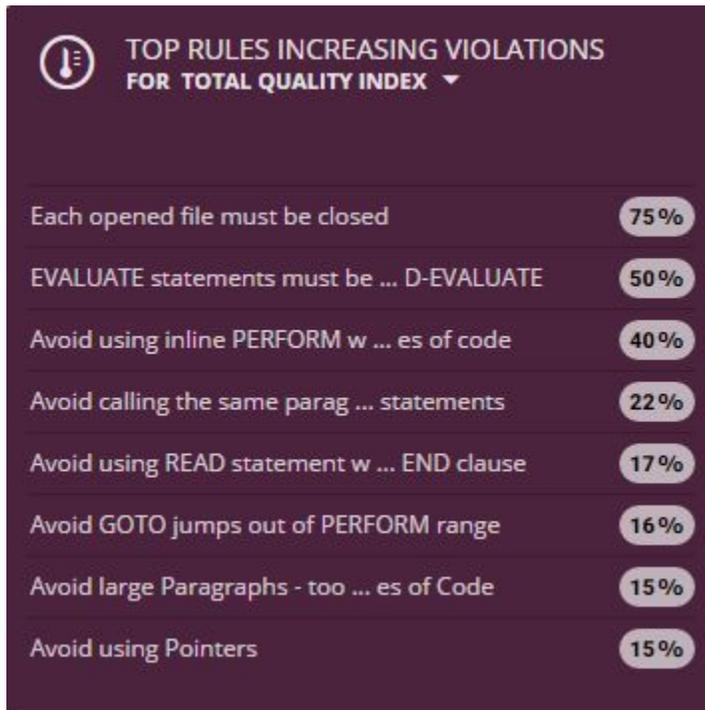# Top Rules with increasing or decreasing violations tile

Top Rules with increasing/decreasing violations tiles display a list of Quality Rules and a value for each. The value represents the **difference** in the **number of violations** for the Quality Rule between the most recent and the previous snapshot. The higher the value, the larger the difference.

TOP RULES INCREASING VIOLATIONS
FOR TOTAL QUALITY INDEX ▼

Rule	Value
Each opened file must be closed	75%
EVALUATE statements must be ... D-EVALUATE	50%
Avoid using inline PERFORM w ... es of code	40%
Avoid calling the same parag ... statements	22%
Avoid using READ statement w ... END clause	17%
Avoid GOTO jumps out of PERFORM range	16%
Avoid large Paragraphs - too ... es of Code	15%
Avoid using Pointers	15%

TOP RULES INCREASING VIOLATIONS
FOR TOTAL QUALITY INDEX ▼

Rule	Value
Avoid undocumented Methods	+ 7,298
Avoid Methods with a very lo ... code ratio	+ 6,534
Avoid unreferenced Methods	+ 1,504
Avoid Artifacts with lines l ... characters	+ 1,307
Avoid Too Many Copy Pasted Artifacts	+ 1,118
Avoid Artifacts with High Fan-Out	+ 1,101
Avoid functions overriding v ... l' keyword	+ 914
Avoid Classes with a High La ... f Cohesion	+ 806

It is possible to choose between three values (as shown in the examples above):

- **ratio** - shows a percentage difference (increase)
- **added** - shows the exact number of added violations
- **removed** - shows the exact number of removed violations)

Note that the value displayed in the tile when using the "ratio" option may be different from the value for the number of **added** or **removed** violations for a given Quality Rule, since the value is a **difference** between the number of violations since the previous snapshot and takes **added and removed violations into account**.

Violation count difference is displayed on the right of a rule and a red dot is added when the rule is critical. Rules are clickable and will take you direct to the Quality Rule in the **Quality Investigation view** (see **Engineering Dashboard** for more information).

> ⓘ Note that the default behaviour in the dashboard is to display ONLY Critical Violations (see **Data Filtering on Critical Violations**) - therefore the display in this tile will reflect this and only Critical Violations (with a red dot) will be displayed. If the default filter is disabled to show ALL violations, then the tile will display Critical and non-Critical Violations

Configuration

- **type**: tile type has to be *NewViolationsForQualityRules*
- **parameters**
    - **business** the health factor ID
    - **variation** decide value to be considered
        - **ratio** (default value), show the variation of violations between current and previous snapshot
        - **added** show the variation focusing on added violations only
        - **removed** show the variation focussing on removed violations only
- **color** : tile color
- other parameters for sizing and positioning of the tile - see **Tile Sizing and Positioning**

```
{
  "type": "NewViolationsForQualityRules",
  "parameters": {
    "business": 60017,
        "variation":"added"
  },
  "color": "dark-grey-red",
  "col": 7,
  "row": 2,
  "sizex": 2,
  "sizey": 2,
  "min-sizex": 2,
  "min-sizey": 1,
  "max-sizex": 4,
  "max-sizey": 5
}
```