Sample document

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1 LLAlignAnd

2 LLAlignSingleLine

- Long line before display (same result) -

Lorem ipsum.

Lorem ipsum.

$$f(x) = ax^2 + bx + c$$

$$f(x) = ax^2 + bx + c$$

This is an equation environment.

This is an align environment.

Short line before display (different result) -

Lrm:

Lrm:

$$f(x) = ax^2 + bx + c$$

$$f(x) = ax^2 + bx + c$$

This is an equation environment.

This is an align environment.

Single-line alignat environment is also detected.

$$f(x) = ax^2 + bx + c$$

 $\label{eq:Multi-line} \mbox{ Multi-line alignat environment is not detected.}$

$$f(x) = ax^2 + bx + c$$

$$g(x) = dx^2 + ex + f$$

3 LLColonEqq

```
\begin{array}{lll} \mathbf{x} := \mathbf{y} & x := y & \mathbf{ng} \\ \mathbf{x} \setminus \mathbf{coloneqq} & x := y & \mathbf{ok} \\ \mathbf{x} ::= \mathbf{y} & x ::= y & \mathbf{ng} \\ \mathbf{x} \setminus \mathbf{Coloneqq} & x ::= y & \mathbf{ok} \end{array}
```

4 LLColonForMapping

```
\begin{array}{lll} A:B & A:B & \text{ok} \\ A \setminus \text{colon B} & A:B & \text{ng} \\ f(x): \mathbb{R} \setminus \mathbb{R} \setminus \mathbb{R} & f(x): \mathbb{R} \to \mathbb{R} & \text{ng} \\ f(x) \setminus \text{colon } \mathbb{R} \setminus \mathbb{R} \setminus \mathbb{R} & f(x): \mathbb{R} \to \mathbb{R} & \text{ok} \\ \end{array}
```

— We detect all of : in the following -

Here are examples of colons we detect.

- $X: Y \to Z$,
- $X: Y \mapsto Z$.,
- $X: \mathbb{R}^{n^2+2n+1} \to \mathbb{R}$

and

 $X: (Y \text{ at new line in tex file}) \to (Z \text{ at new line in tex file}).$ (1)

- We do NOT detect any of: in the following

Here are examples of ':' we do not detect.

- $X: Y \to Z$, the correct use of colon.
- A:B:C=1:2:3, the colon for ratio.
- A: B = 1: 2 and $\alpha \to \beta$, separated by dollar sign.
- f: (some very very very very long long long long words) $\to \mathbb{R}$, the false negative.

5 LLCref

Theorem 1. This is a sample theorem.

Use Thm. 1 with cref instead of Theorem 1 with ref to avoid mistakes.

6 LLDoubleQuotation

Use "XXX" instead of "XXX" or "XXX".

7 LLENDash

- Erdos-Renyi (random graph, Erdős-Rényi)
- Einstein-Podolsky-Rosen (quantum physics, Einstein-Podolsky-Rosen)
- Fruchterman-Reingold (graph drawing, Fruchterman-Reingold)
- Gauss-Legendre (numerical integration, Gauss-Legendre)
- Gibbs-Helmholtz (thermodynamics, Gibbs-Helmholtz)
- Karush-Kuhn-Tucker (optimization, Karush-Kuhn-Tucker)

Exception: Fritz-John (optimization, name of a person) False Positive: Wrong-Example

8 LLEquarray

We should not use equarray. It has some spacing issues.

$$x = y \tag{2}$$

$$a = b (3)$$

9 LLLlGg

$$n \mid ll m \quad n \ll m \quad ok$$

 $n << m \quad n << m \quad ng$

I like human <<< cat <<<<<<< dog.

10 LLRefEq

To refer to the equation, use (1) with eqref instead of (1) with ref. You can avoid the mistakes of forgetting to add parentheses.

11 LLSharp

$$\fint \#A = \emptyset \$$
 $\fint \#A = \emptyset \$ $\fint \#A = \emptyset \$

12 LLNonASCII

The following line contains non-ASCII characters.

日本語の文章は、upLaTeX でフツウに書けます。 (You can write Japanese sentences as usual with upLaTeX.)

13 LLSI

Example: 10 KB, 3.5 MiB, 500 GB.

Some Awesome Command. This is not ExaByte..

This 1EB is one ExaByte.

14 LLT

$$X^T \quad X^{\top} \quad X^{\mathsf{T}}$$

15 LLTitle

15.1 non title case words

15.1.1 This Is a Correct Title

SubParagraph: Test With Ref 1

16 LLUserDefined

You can define your own rule, such as prohibiting the use of a f^a.

$$f^{a}(X)$$
 $f^{a}(X)$