Sample document

hari64boli64

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1 LLAlignAnd

2 LLAlignEnd

The following ends with a line break.

$$f(x) = ax^{2} + bx + c$$
$$g(x) = dx^{2} + ex + f$$

The following does not end with a line break.

$$f(x) = ax^{2} + bx + c$$
$$g(x) = dx^{2} + ex + f$$

Here is the next line after the align environment.

3 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.

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

Multi-line alignat environment is not detected.

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

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

4 LLColonEqq

$$\mathbf{x} := \mathbf{y}$$
 $\mathbf{x} := \mathbf{y}$

$$x \setminus coloneqq y \quad x := y \quad ol$$

$$\mathbf{x} ::= \mathbf{y}$$
 $x ::= y$

$$\mathbf{x} \setminus \mathbf{Coloneqq} \ \mathbf{y} \quad x \coloneqq y \quad \mathbf{ok}$$

5 LLColonForMapping

$$A:B$$
 $A:B$

A \colon B A: B ng $f: \mathbb{R} \to \mathbb{R}$ ng

f: \mathbb{R}\to\mathbb{R} \ f: $\mathbb{R} \to \mathbb{R}$ ng f\colon \mathbb{R}\to\mathbb{R}\ $f: \mathbb{R} \to \mathbb{R}$ ok

— We detect all of : in the following -

Here are examples of colons we detect.

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

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.

6 LLCref

Theorem 1. This is a sample theorem.

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

7 LLDoubleQuotes

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

8 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

9 LLEqnarray

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

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

$$a = b \tag{3}$$

10 LLLlGg

$$\begin{array}{lll} \mathbf{n} & \mathbf{n} & \mathbf{m} & \mathbf{ok} \\ \mathbf{n} & << \mathbf{m} & \mathbf{n} << \mathbf{m} & \mathbf{ng} \end{array}$$

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

11 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.

12 LLSharp

$$\fint \#A$$
 ok $\sharp \#A$ ng

13 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.)

14 LLSI

Example: 10 KB, 3.5MiB, 500 GB.

Some Awesome Command. This is not ExaByte..

This 1EB is one ExaByte.

15 LLT

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

16 LLTitle

16.1 The quick brown fox jumps over the lazy dog

16.1.1 This Is a Correct Title

SubParagraph: Test With Ref 1

17 LLUserDefined

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

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