

Sample document

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1 LAlignAnd

$\&=$	$a = b$	ok
	$c = d$	
$=\&$	$a = b$	ng
	$c = d$	
$=\{\}\&$	$a = b$	ok
	$c = d$	

2 LAlignSingleLine

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.

$$\begin{aligned} f(x) &= ax^2 + bx + c \\ g(x) &= dx^2 + ex + f \end{aligned}$$

3 LLColonEqq

$x := y$	$x := y$	ng
$x \backslash \text{coloneqq} y$	$x := y$	ok
$x ::= y$	$x ::= y$	ng
$x \backslash \text{Coloneqq} y$	$x ::= y$	ok

4 LLColonForMapping

$A : B$	$A : B$	ok
$A \backslash \text{colon} B$	$A : B$	ng
$f : \backslash \text{mathbb{R}} \backslash \text{to} \backslash \text{mathbb{R}}$	$f : \mathbb{R} \rightarrow \mathbb{R}$	ng
$f \backslash \text{colon} \backslash \text{mathbb{R}} \backslash \text{to} \backslash \text{mathbb{R}}$	$f : \mathbb{R} \rightarrow \mathbb{R}$	ok

— We detect all of : in the following —

Here are examples of colons we detect.

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

and

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

— We do NOT detect any of : in the following —

Here are examples of ‘:’ we do not detect.

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

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

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

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

9 LLLlGg

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

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

$$\begin{array}{lll} \backslash\# & \#A & \text{ok} \\ \backslash\text{sharp} & \sharp A & \text{ng} \end{array}$$

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, 3.5MiB, 500 GB.

Some Awesome Command.This is not ExaByte..

This 1EB is one ExaByte.

14 LLT

$$X^T \quad X^\top \quad X^\intercal$$

15 LLTitle

15.1 The quick brown fox jumps over the lazy dog

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.

$$f^a(X) \quad f^{\mathrm{a}}(X)$$