Sample document

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1 LLAlignAnd

2 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}
```

3 LLColonForMapping

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

— We detect all of: in the following.

Here is the example of colon we detect.

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

and

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

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

Here is the example of ':' undetected:

- $X: Y \to Z$, 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.

4 LLCref

Theorem 1. This is a sample theorem.

Use Thm. 1 with cref instead of Theorem 1 with ref.

5 LLDoubleQuotation

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

6 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

7 LLNonASCII

! "#\$%&' ()*+, -. / 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.)

8 LLSI

Example: 10 KB, 3.5MiB, 500 GB.

Some Awesome Command. This is not ExaByte..

This 1EB is one ExaByte.

9 LLT

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

10 LLTitle

10.1 non title case words

10.1.1 This Is a Correct TitleSubParagraph: Test With Ref 1

11 LLUserDefined

I want to use a instead of a for superscript.

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