

The latex-lab-mathintent code^{*}

L^AT_EX Project

October 30, 2026

Abstract

Contents

1	Introduction	1
2	The Implementation	1
2.1	File declaration	1
2.2	Invisible ops	1
2.3	MathML intent and arg	2
	Index	2

1 Introduction

This file implements Experiments with the MathML4 `intent` feature. Initially to give readings for invisible times and function application.

2 The Implementation

¹ `<@@=math>`

² `<*=kernel>`

2.1 File declaration

³ `\ProvidesFile{latex-lab-mathintent.ltx}`

⁴ `[2026-01-16 v0.1c MathML intent attributes]`

*

2.2 Invisible ops

```
5 \ExplSyntaxOn

6 \protected\def\invisibletimes{
7 \if_cs_exist:N\luamml_annotate:en
8 \luamml_annotate:en {
9 core = {[0] = 'mo', intent="times", "~~~~2062"},
10 }{
11 \latelua{}
12 }
13 \fi:
14 }

15 \protected\def\functionapplication{
16 \if_cs_exist:N\luamml_annotate:en
17 \luamml_annotate:en {
18 core = {[0] = 'mo', intent="applied_to", "~~~~2061"},
19 }{
20 \latelua{}
21 }
22 \fi:
23 }
```

2.3 MathML intent and arg

These commands have stub definitions in the Kernel Here we enable their active definition.

```
24 \AtBeginDocument{
25 \if_cs_exist:N \luamml_attribute:een
26 \let\MathMLintent\relax
27 \NewDocumentCommand \MathMLintent {} {
28 \luamml_attribute:een { intent }
29 }

30 \let\MathMLarg\relax
31 \NewDocumentCommand \MathMLarg {} {
32 \luamml_attribute:een { arg }
33 }
34 \fi:
35 }

36 \ExplSyntaxOff

37 </kernel>
```

Index

The *italic* numbers denote the pages where the corresponding entry is described, numbers underlined point to the definition, all others indicate the places where it is used.

A		L	
<code>\AtBeginDocument</code>	24	<code>\latelua</code>	11, 20
		<code>\let</code>	26, 30
D		luamml commands:	
<code>\def</code>	6, 15	<code>\luamml_annotate:nn</code>	7, 8, 16, 17
		<code>\luamml_attribute:nnn</code>	25, 28, 32
E		M	
<code>\ExplSyntaxOff</code>	36	<code>\MathMLarg</code>	30, 31
<code>\ExplSyntaxOn</code>	5	<code>\MathMLintent</code>	26, 27
F		N	
fi commands:		<code>\NewDocumentCommand</code>	27, 31
<code>\fi:</code>	13, 22, 34		
<code>\functionapplication</code>	15	P	
I		<code>\protected</code>	6, 15
if commands:		<code>\ProvidesFile</code>	3
<code>\if_cs_exist:N</code>	7, 16, 25	R	
<code>\invisibletimes</code>	6	<code>\relax</code>	26, 30