

The `dynbrackets` package

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v1.0.0 from 2021/04/01

1 Introduction

This package simplifies the syntax of calling dynamic math brackets.

Dynamic math brackets builds on `\left` and `\right` syntax of deploying size sensible brackets in math mode.

2 Usage

`dynbrackets` implements commands to the math braces and parentheses found in Table 1. Note that $\LaTeX$ markup on the table doesn't correspond to dynamic brackets, just the brackets themselves.

To have the brackets change size dynamically with the content one would have to use `\left` and `\right` on each bracket respectively. To simplify the syntax, `dynbrackets` implements a command for each bracket pair. When calling a dynamic bracket, content inside the bracket will automatically be in math mode.

3 Implementation

```
1 \NeedsTeXFormat{LaTeX2e}
2 \ProvidesPackage{dynbrackets}
```

Table 1: List of Math Brackets

Type	$\LaTeX$	<code>dynbrackets</code>	Renders as
Parentheses; round brackets	$(x+y)$	<code>\dbr{}</code>	$(x+y)$
Brackets; square brackets	$[x+y]$	<code>\dbs{}</code>	$[x+y]$
Braces; curly brackets	$\{x+y\}$	<code>\dbc{}</code>	$\{x+y\}$
Angle brackets	$\langle x+y \rangle$	<code>\dba{}</code>	$\langle x+y \rangle$
Pipes; vertical bars	$ x+y $	<code>\dbp{}</code>	$ x+y $
Double pipes	$\ x+y\ $	<code>\dbdp{}</code>	$\ x+y\ $

```

3 [2021/04/01 v1.0.0 Simplifies the syntax of calling dynamic math brackets]
\dbr
4 \newcommand{\dbr}[1]{\ensuremath{\left(#1\right)}}
\dbs
5 \newcommand{\dbs}[1]{\ensuremath{\left[#1\right]}}
\dbc
6 \newcommand{\dbc}[1]{\ensuremath{\left\{#1\right\}}}
\dba
7 \newcommand{\dba}[1]{\ensuremath{\left\langle#1\right\rangle}}
\dbp
8 \newcommand{\dbp}[1]{\ensuremath{\left|#1\right|}}
\dbdp
9 \newcommand{\dbdp}[1]{\ensuremath{\left\| #1\right\|}}

```