

bug

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Chapter 1

Issue 1401: rendering custom LaTeX

1.1 @example block / show with text/latex MIME

```
struct Table end

Base.show(io, ::MIME"text/latex", ::Table) = write(io, raw"""
A table:
\begin{tabular}{r|ccc}
& i & y & z \\
\hline
& Int64 & Char & Int64 \\
\hline
1 & 1 & 'A' & 5 \\
2 & 2 & 'B' & 6 \\
3 & 3 & 'C' & 7 \\
4 & 4 & 'D' & 8 \\
\end{tabular}
and an equation
 $x \geq 1$ 
""")

Table()
```

A table:

| | i | y | z |
|---|-------|------|-------|
| | Int64 | Char | Int64 |
| 1 | 1 | 'A' | 5 |
| 2 | 2 | 'B' | 6 |
| 3 | 3 | 'C' | 7 |
| 4 | 4 | 'D' | 8 |

and an equation

$$x \geq 1$$

1.2 @raw block

| | i | y | z |
|---|-------|------|-------|
| | Int64 | Char | Int64 |
| 1 | 1 | 'A' | 5 |
| 2 | 2 | 'B' | 6 |
| 3 | 3 | 'C' | 7 |
| 4 | 4 | 'D' | 8 |

1.3 Inline LaTeX

Note: this should render as just text, not as a table.

```
\begin{tabular}{r|ccc} & i & y & z \\\hline & Int64 & Char & Int64 \\\hline 1 & 1 & 'A' & 5 \ 2 & 2 & 'B' & 6 \ 3 & 3 & 'C' & 7 \ 4 & 4 & 'D' & 8 \end{tabular}
```

Chapter 2

Issue 1345

```
using DataFrames, StatsBase
df = DataFrame(i=1:10, x=0.1:0.1:1.0, y='a':'j')
describe(df)
```

| | variable | mean | min | median | max | nmissing | eltype |
|---|----------|----------|-----|----------|-----|----------|----------|
| | Symbol | Union... | Any | Union... | Any | Int64 | DataType |
| 1 | i | 5.5 | 1 | 5.5 | 10 | 0 | Int64 |
| 2 | x | 0.55 | 0.1 | 0.55 | 1.0 | 0 | Float64 |
| 3 | y | | a | | j | 0 | Char |

Chapter 3

Printing LaTeX from Julia

To pretty-print LaTeX from Julia, overload `Base.show` for the `MIME"text/latex"` type. For example:

```
struct LaTeXEquation
    content::String
end

function Base.show(io::IO, ::MIME"text/latex", x::LaTeXEquation)
    # Wrap in $$ for display math printing
    return print(io, "\$\$ " * x.content * " \$\$")
end

LaTeXEquation(raw"""
    \left[\begin{array}{c}
        x \\
        y
    \end{array}\right]
""")
```

$$\begin{bmatrix} x \\ y \end{bmatrix}$$

```
struct LaTeXEquation2
    content::String
end

function Base.show(io::IO, ::MIME"text/latex", x::LaTeXEquation2)
    # Wrap in |[...]| for display math printing
    return print(io, "\\| " * x.content * " \\|")
end

LaTeXEquation2(raw"""
    \left[\begin{array}{c}
        x \\
        y
    \end{array}\right]
""")
```

$$\begin{bmatrix} x \\ y \end{bmatrix}$$