Contents

1 Math

Math font styles

$$
\begin{aligned}
&A \\
&A \\
&A \\
&\mathrm{A} \\
&\mathcal{A} \\
&\mathscr{A} \\
&\mathfrak{A} \\
&\mathbb{A}
\end{aligned}
$$

```
\begin{align*}
        &A\\
        &\mathord{A}     \\ % default
        &\mathit{A}      \\ % default
        &\mathrm{A}      \\
        &\mathcal{A}     \\
        &\mathscr{A}     \\
        &\mathfrak{A}    \\
        &\mathbb{A}
\end{align*}
```

Symbols

$$\mathbb{N} \subseteq \mathbb{Z} \stackrel{?}{=} \mathbb{R}$$
$$\Im x \forall y . x + \mathbb{1} * y^{-1} \neq \not\emptyset$$
$$\mathrm{fun}^{1}_{\mathrm{abc}}(x) = * \mathit{fun}^{k+1}_{\mathrm{abc}}(x)$$

```
$\N \subseteq \Z \questioneq \R$\\
$\quantor x \forall y. x + \mathbb{1}
    * y^{-1} \neq \blank$
\[
        \func{fun}_{\var{abc}}^{1} (x)
    = \func*{fun}_{\var{abc}}^{k+1} (x)
\]
```

2 Complexity Classes

Complexity Classes

P, NP and APX are some complexity classes. Clever spacing (NP-complete), inline math mode ($\mathrm{P} \subseteq \mathrm{NP}$) and display style

$$\mathrm{P} \neq \textsc{ExpTime}$$

are supported.
There is also

- kExpTime
- NkExpTime
- 4ExpTime
- N4ExpTime
- kExpSpace
- 5ExpSpace

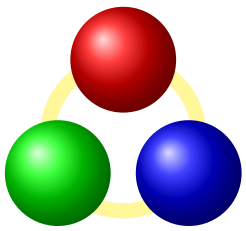
```
\PTime, \NP and
    \complclass{APX} are some
    complexity classes.
Clever spacing (\NP-complete),
inline math mode ($\PTime
    \subseteq \NP$)
and display style
\[
        \PTime \neq \ExpTime
\]
are supported.

There is also
\begin{itemize}
        \item \kExpTime
        \item \NkExpTime
        \item \kExpTime[4]
        \item \NkExpTime[4]
        \item \kExpSpace
        \item \kExpSpace[5]
\end{itemize}
```

A About this document

Usage of `latex-example` (for this document only).

```
\begin{latex-example}[lefthand width=3.5cm]{Test123}
\begin{tikzpicture}
\path[fill=yellow!50!white] (0,0) circle (11mm);
\path[fill=white] (0,0) circle (9mm);
\foreach \w/\c in {90/red,210/green,330/blue}
{\path[shading=ball,ball color=\c] (\w:1cm) circle (7mm);}
\end{tikzpicture}
\end{latex-example}
```

Test123



```
    \begin{tikzpicture}

\path[fill=yellow!50!white]
(0,0) circle (11mm);
    \path[fill=white] (0,0)
circle (9mm);
    \foreach \w/\c in
{90/red,210/green,330/blue}

{\path[shading=ball,ball
color=\c] (\w:1cm) circle
(7mm);}
    \end{tikzpicture}
```