

Using `\pdfmarkupcomment` in math mode

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1 Simple formulas

PDF annotations work in inline formula ($\sum_{i=1}^n i = \frac{1}{2}n \cdot (n + 1)$), as well as in display mode:

$$f(x) = \prod_{i=1}^n \left(i - \frac{1}{2i}\right)$$

Of course, you can only comment parts of a formula:

$$(a + b = c)^{d+e} \quad \backslash[(a+b=c)^{\backslash\pdfmarkupcomment[style=mathpopup]{d+e}\{comment\}}\backslash]$$

As you can see the size of the PDF annotation is too big! The math content is set into a box to measure the size. Unfortunately, the math context gets lost, which results in a wrong size, as the math snippets are set as inline formula into the box by default. You can correct this with the option `mathstyle` (`\textstyle`, `\displaystyle`, `\scriptstyle`, `\scriptscriptstyle`)

$$(a + b = c)^{d+e} \quad \backslash[(a+b=c)^{\backslash\pdfmarkupcomment[style=mathpopup, mathstyle=\scriptstyle]{d+e}\{comment\}}\backslash]$$

Of course, it also works with equations:

$\sum_{i=1}^n i = \frac{1}{2}n \cdot (n+1)$	(1)	<pre>\begin{equation} \pdfmarkupcomment[style=mathpopup, mathstyle=\displaystyle] {\sum_{i=1}^n i = \frac{1}{2}n \cdot (n+1)}{\comment} \end{equation}\label{eq:display}</pre>
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In formula 1 `mathstyle=\displaystyle` was used.

2 Complex formulas

If you use more complex environments like `eqnarray*`, you can no longer comment the complete formula, as this would break the internals of the environment. Remember that you can only comment, what you can put into a math box (`$math stuff$`). Therefore, you can only comment parts of the complex formula:

$\frac{1}{\sqrt{n}} = \frac{\sqrt{n}}{n} = \frac{n}{n\sqrt{n}}$	<pre>\begin{eqnarray*} \pdfmarkupcomment[style=mathpopup] {\mathrm{left}}{\comment} & \pdfmarkupcomment[style=mathpopup] {\mathrm{middle}}{\comment} & \pdfmarkupcomment[style=mathpopup] {\mathrm{right}}{\comment} \\ \pdfmarkupcomment[style=mathpopup, mathstyle=\displaystyle] {\frac{1}{\sqrt{n}}}{\comment} = & \pdfmarkupcomment[style=mathpopup, mathstyle=\displaystyle] {\frac{\sqrt{n}}{n}}{\comment} = & \pdfmarkupcomment[style=mathpopup, mathstyle=\displaystyle] {\frac{n}{n\sqrt{n}}}{\comment} \\ \end{eqnarray*}</pre>
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