Formula Demo

This test demonstrates how embedded javascript can help to integration DocPlatform Formatter with a service rendering external entities like for example the LaTeX formulas. Individual formulas are retrieved from message data and passed directly to the external rendering service. Rendered results are then visualized as plain images with appropriate dimension and resolution.

This is the first formula: $\mathrm{x}=1+\mathrm{y}\overline{1+2z^2}$, and this is the second formula: $\int_0^\infty e^{-x^2}dx = \frac{\sqrt{\pi}}{2}$, followed by the third formula: $\binom{n+1}{k} = \binom{n}{k} + \binom{n}{k-1}$, and the forth formula: $\left\{\frac{x^2}{y^3}\right\}$, and this is a formula with sub and superscripts and braces: $\underbrace{a+\overbrace{b+\cdots}^{=t}+z}_{\text{total}} \quad a+\overbrace{b+\cdots}^{126}+z$. This is a matrix formula: $\begin{bmatrix} \frac{5}{6} & \frac{1}{6} & 0 \\ \frac{5}{6} & 0 & \frac{1}{6} \\ 0 & \frac{5}{6} & \frac{1}{6} \end{bmatrix}$, and even bigger one: $A_{m,n} = \begin{pmatrix} a_{1,1} & a_{1,2} & \cdots & a_{1,n} \\ a_{2,1} & a_{2,2} & \cdots & a_{2,n} \\ \vdots & \vdots & \ddots & \vdots \\ a_{m,1} & a_{m,2} & \cdots & a_{m,n} \end{pmatrix}$, and finally - we are getting at the very last formula which is relatively complicated and recursive: $\frac{1}{1+\frac{1}{2+\frac{1}{3+x}}} + \frac{1}{1+\frac{1}{2+\frac{1}{3+x}}}$, and that's all for now.