MathML Torture Test

NOTES:

1. Alternate stylesheets are available from: "View -> Use StyleSheet -> TeX | Mathematica"
2. Click on a MathML fragment to view its WYSIWYG source.
3. In the examples below, the text won't be allowed to decrease pass the scriptminsize or your browser's minimum allowable font size -- this can be set with, e.g, user_pref("font.minimum-size.x-western", 10). To see the effect of the gradual decrease induced by changes in script levels more clearly, you may have to increase your default font size in the menu: "Edit -> Preferences -> Appearance -> Fonts".
   - Here is how the alphabet looks like at scriptminsize: *a, b, c ... x, y, z*
   - Here is how greek letters look like at scriptminsize: α, β, γ ..., ψ, ω, ϑ, ϒ, ϖ
   - Here is how numbers look like at scriptminsize: 0, 1, 2, ..., 10, 11, 12, ...
4. You can use "View -> Text Zoom" in the usual way to zoom the MathML text along with the other text.
5. There is a tracker bug where you can [report rendering errors on the demos](#).

	As rendered by TeX	As rendered by
1	x^2y^2	x^2
2	${}_2F_3$	${}_2$
3	$\frac{x+y^2}{k+1}$	$\frac{x+}{k+}$
4	$x+y^{\frac{2}{k+1}}$	$x+$
5	$\frac{a}{b/2}$	$\frac{}{b}$
6	$a_0+\cfrac{1}{a_1+\cfrac{1}{a_2+\cfrac{1}{a_3+\cfrac{1}{a_4}}}}$	a_0+ a_1+ a

7	$$a_0 + \frac{1}{a_1 + \frac{1}{a_2 + \frac{1}{a_3 + \frac{1}{a_4}}}}$$	$a_0 +$
8	$$\binom{n}{k/2}$$	$\binom{n}{k/}$
9	$$\binom{p}{2} x^2 y^{p-2} - \frac{1}{1-x} \frac{1}{1-x^2}$$	$\binom{p}{2} x^2 y^{p-2} -$
10	$$\sum_{\substack{0 \leq i \leq m \\ 0 < j < n}} P(i,j)$$	$\sum_{\substack{0 \leq i \leq m \\ 0 < j < n}}$
11	$$x^{2y}$$	x
12	$$\sum_{i=1}^{p} \sum_{j=1}^{q} \sum_{k=1}^{r} a_{ij} b_{jk} c_{ki}$$	$\sum_{i=1}^{p} \sum_{j=1}^{q} \sum_{k=1}^{r}$
13	$$\sqrt{1+\sqrt{1+\sqrt{1+\sqrt{1+\sqrt{1+\sqrt{1+\sqrt{1+x}}}}}}}$$	$\sqrt{1+\sqrt{1+\sqrt{1+\sqrt{1}}}}$
14	$$\left(\frac{\partial^2}{\partial x^2} + \frac{\partial^2}{\partial y^2}\right) \left\lvert\varphi(x+iy)\right\rvert^2 = 0$$	$\left(\frac{\partial^2}{\partial x^2} + \frac{\partial^2}{\partial y^2}\right)$
15	$$2^{2^{28}}$$	2^2
16	$$\int_1^x \frac{dt}{t}$$	$\int_1$
17	$$\iint_D dx\,dy$$	$\int\int_D \mathrm{d}$
18	$$f(x) = \begin{cases} 1/3 & \text{if } 0 \leq x \leq 1; \\ 2/3 & \text{if } 3 \leq x \leq 4; \\ 0 & \text{elsewhere.} \end{cases}$$	$f(x) = \begin{cases} 1/3 \\ 2/3 \\ 0 \end{cases}$

19	$\overbrace{x+\cdots+x}^{k\ \text{times}}$	$\overbrace{x+\ .}^{k\ \text{ti}}$
20	y_{x^2}	y
21	$\sum_{p\ \text{prime}} f(p)=\int_{t>1} f(t)\,d\pi(t)$	$\sum_{p\ \text{prime}} f(p)=\int$
22	$\{\underbrace{\overbrace{a,\ldots,a}^{k\ a\text{'s}},\overbrace{b,\ldots,b}^{\ell\ b\text{'s}}}_{k+\ell\ \text{elements}}\}$	$\{\underbrace{\overbrace{a,\ \ldots,\ a,}^{k\ a\text{'s}}}_{k+\ell\ \text{el}}$
23	$\begin{pmatrix} \begin{pmatrix} a & b \\ c & d \end{pmatrix} & \begin{pmatrix} e & f \\ g & h \end{pmatrix} \\ 0 & \begin{pmatrix} i & j \\ k & l \end{pmatrix} \end{pmatrix}$	$\begin{pmatrix} \begin{pmatrix} a & b \\ c & d \end{pmatrix} & \\ 0 & \end{pmatrix}$
24	$\det\begin{vmatrix} c_0 & c_1 & c_2 & \cdots & c_n \\ c_1 & c_2 & c_3 & \cdots & c_{n+1} \\ c_2 & c_3 & c_4 & \cdots & c_{n+2} \\ \vdots & \vdots & \vdots & & \vdots \\ c_n & c_{n+1} & c_{n+2} & \cdots & c_{2n} \end{vmatrix} > 0$	$\det\begin{vmatrix} c_0 & c_1 & c \\ c_1 & c_2 & c \\ c_2 & c_3 & c \\ \vdots & \vdots & \vdots \\ c_n & c_{n+1} & c_n \end{vmatrix}$
25	y_{x_2}	y
26	$x_{92}^{31415}+\pi$	x_{92}^{3141}
27	$x_{y_b^a}^{z_c^d}$	x
28	y_3'''	y y