

To be able to see the difference between text and math mode I switch to a sans serif font. The math mode stays with serifs.

text mode:

1234 abc

1234.1234 abc

1,234.123,45 abc

12,345.123,45

1,234,567,890

1,234,567,890 mm

12,345.123,45 MPa $\sqrt{m}$

1,234,567,890.123,456,789,0, 1,234,567,890.123,456,789,0

+123,456, +1,234,567, +12,345,678

-123,456, -1,234,567, -12,345,678

$\pm 123,456$ ,  $\pm 1,234,567$ ,  $\pm 12,345,678$

12,345,678.123,456,78  $\times 10^{1234.1234}$

12,345,678.123,456,78  $\times 10^{+1234.1234}$

12,345,678.123,456,78  $\times 10^{1234}$

$10^{1234}$

$+10^{1234}$

$-10^{1234}$

$\pm 10^{1234}$

$\pm 10^{1234}$

math mode:

1234.1234

12,345.123,45

1,234,567,890%

1,234,567,890 mm

12,345.123,45 MPa $\sqrt{m}$

1,234,567,890.123,456,789,0, 1,234,567,890.123,456,789,0

+123,456, +1,234,567, +12,345,678

-123,456, -1,234,567, -12,345,678

$\pm 123,456$ ,  $\pm 1,234,567$ ,  $\pm 12,345,678$

12,345,678.123,456,78  $\times 10^{1234.1234}$

12,345,678.123,456,78  $\times 10^{+1234.1234}$

12,345,678.123,456,78  $\times 10^{1234}$

$10^{1234}$

$+10^{1234}$

$-10^{1234}$

$\pm 10^{1234}$

$\pm 10^{1234}$

1.0

0.1

0.1

$1.0 \times 10^5$

Round to 2 digits resp. 1 digit in exponents:

$12,345,678.12 \times 10^{1234.1}$

$12,345,678.12 \times 10^{+1234.1}$

$12,345,678.12 \times 10^{1234.0}$

Round to 0 digits:

$12,345,678$

$12,345,678$

$12,345,678$

$12,345,678$

Replace zero by —:

$12,345,678.—$

$12,345,678.12$

$12,345,678.—$

Don't add missing zero:

1.

.1

$1. \times 10^5$

English:

$12,345,678.123,456,78 \times 10^{1234}$

German:

$12\,345\,678,123\,456\,78 \cdot 10^{1234}$

Portuguese:

$12\,345\,678,123\,456\,78 \cdot 10^{1234}$

English:

$12,345,678.123,456,78 \times 10^{1234}$

German (foreign language):  $12\,345\,678,123\,456\,78 \cdot 10^{1234}$

Padding:

$12,345.123,4 \times 10^{1234}$

$0,012,345.123,4 \times 10^{1234}$

$12,345.123,4 \times 10^{1234}$

$0,012,345.123,4 \times 10^{1234}$

$x,x12,345.123,4 \times 10^{1234}$

$12,345.123,4 \times 10^{1234}$

tabulars:

1.1	$\times 10^1$
12.12	$\times 10^{12}$
123.123	$\times 10^{123}$
1234.1234	$\times 10^{1234}$
12,345.123,45	$\times 10^{1234.1}$
123,456.123,45	

1.1	
12.12	
123.123	
1.1	$\times 10^1$
12.12	$\times 10^{12}$
123.123	$\times 10^{123}$
1234.1234	$\times 10^{1234}$
12,345.123,45	$\times 10^{1234.1}$
12,345.123,45	$\times 10^{1234.1}$
123,456.123,45	
1.1	$\times 10^1$
12.12	$\times 10^{12}$
123.123	$\times 10^{123}$
1234.1234	$\times 10^{1234}$
12,345.123,45	$\times 10^{1234.1}$
12,345.123,45	$\times 10^{1234.1}$
123,456.123,45	
1.1	
12.12	
123.123	
1234.1234	
1.1	$\times 10^1$
12.12	$\times 10^{12}$
123.123	$\times 10^{123}$
1234.1234	$\times 10^{1234}$
12,345.123,45	$\times 10^{1234.1}$
12,345.123,45	$\times 10^{1234.1}$
123,456.123,45	
1.1	
12.12	
123.123	
1234.1234	
1.1	
12.12	
123.123	
1234.1234	
1,234.123,45	
+12,343.000	$\times 10^{-3}$
<b>1234.000</b>	
+12,343.000	$\times 10^{-3}$
<b>1234.000</b>	
+12,343.000	$\times 10^{-3}$
<b>1234.000</b>	

$+12,343.000 \times 10^{-3}$   
 $12,343.000 \times 10^{-3}$

1234.000

1234.000 abc

1234.123 abc

1234.123 abc

12,345.123 abc

12,345.123

$||10^3||$

$||10^3||$

$||1\ 234||$

$||1234.000||$

1000.000

-10,000.000

-1000.000

-100.000

-100.00

-1000.00

-10,000.00

1000.00

1000.00

1000.00

1000.00

$"10^{1234}"$

$"10^{1234.0}"$

$"10^{1234~"}$

$"10^{1234.0}"$

$"10^{1234}"$

$"10^{1234.0}$

1234.4567

1234

fd

**1.1**

12.12

123.123

1234.1234

1,234.123,45

filled column

**1.1**  
12.12  
123.123  
1234.1234  
1,234.123,45

$$\begin{array}{|c|c|} \hline
\text{Mathe} & \text{Text} \\ \hline
\begin{array}{|c|c|} \hline
\text{Mathe} & \text{Text} \\ \hline
\begin{array}{|c|c|} \hline
\textbf{1.1} & \text{asdf} \\ \hline
12.12 & \\ \hline
123.123 & \\ \hline
1234.1234 & \\ \hline
1,234.123,45 & \text{asdf} \\ \hline
\end{array} &
\begin{array}{|c|c|} \hline
\textbf{1.1} & \text{asdf} \\ \hline
12.12 & \\ \hline
123.123 & \\ \hline
1234.1234 & \\ \hline
1,234.123,45 & \text{asdf} \\ \hline
\end{array} \\ \hline
\end{array} & \left( \begin{array}{c} 1.1 \\ 12.12 \\ 123.123 \\ 1234.1234 \\ 1,234.123,45 \end{array} \right) = \left( \begin{array}{cc} \textit{moin} & 1.1 \\ \textit{moin} & 12.12 \\ \textit{moin} & 123.123 \\ \textit{moin} & 1234.1234 \\ \textit{moin} & 1,234.123,45 \end{array} \right) \\ \hline
\end{array}$$

(1)

1,234.123,45  
1234  
987               $123.3 \times 10^5$  654  
987 123,3e5654  
987  123.3         $\times 10^5$  654  
987              123,3e5654  
987              123.3  $\times 10^5$  654

Test for empty cells:

$$\begin{array}{|c|c|} \hline
12.21 & 34.43 \\ \hline
56.65 & \\ \hline
\end{array}$$

13,413  
14,400.000,0 pt  
14,400.000,0 pt  
5060.9619 mm  
506.0303 cm  
14,346.167,0 bp  
199.2920 in  
16.6992 ft  
16.6992 foot  
5.0537 m  
0.0000 km  
| 12.1200  
| 123.1230  
| 1234.1234