Help: Wiki Math

The Wiki supports LaTeX markup: pi=frac{3}{4} sqrt{3}+24 int_0^{1/4}{sqrt{x-x2}dx}

Mathematical Formula (LaTeX) can be inserted into text like this:

```
<math>Insert formula here</math>
```

For example:

```
<math>alpha^2+beta^2=1</math>
```

…displays alpha^2+beta2=1

Displaying a Formula

The Wiki uses a subset of TeX markup, including some extensions from LaTeX and AMSLaTeX , for mathematical formulae. It generates either PNG images or simple HTML markup, depending on the complexity of the expression. While it can generate MathML, it is not currently used due to limited browser support. As browsers become more advanced and support for MathML becomes more wide-spread, this could be the preferred method of output as images have very real disadvantages.

Syntax

Math markup goes inside $...$.

Pros of

Pros of TeX

```
x}}}" means "mathematical variable <math>x</math>", whereas in HTML "{
{{x
```

“ could mean anything. Information has been irrevocably lost.

Example Formulas

The following are a few examples of formulas:

```
<math>sqrt{1-e^2}</math>
```

sqrt{1-e^2}

```
<math>overbrace{ 1+2+cdots+100 }^{5050}</math>
```

overbrace{ 1+2+cdots+100 }^{5050}

```
<math>ax^2 + bx + c = 0</math>
```

ax^2 + bx + c = 0

```
<math>int_{-N}^{N} e^x, dx</math>
```

int_{-N}^{N} e^x, dx

Functions, symbols, special characters

Accents/Diacritics

acute{a} grave{a} hat{a} tilde{a} breve{a} acute{a} grave{a} hat{a} tilde{a} breve{a} check{a} bar{a} ddot{a} dot{a} check{a} bar{a} ddot{a} dot{a}

Standard functions

sin a cos b tan c sin a cos b tan c sec d csc e cot f sec d csc e cot f,! arcsin h arccos i arctan j arcsin h arccos i arctan j,! sinh k cosh l tanh m coth n sinh k cosh l tanh m coth n operatorname{sh},o,operatorname{ch},p,operatorname{th},q operatorname{sh},o,operatorname{ch},p,operatorname{th},q

operatorname{arsinh},r,operatorname{arcosh},s,operatorname{artanh},t operatorname{arsinh},r,operatorname{arcosh},s,operatorname{artanh},t,! lim u limsup v liminf w min x max y lim u limsup v liminf w min x max y inf z sup a exp b ln c lg d log e log_{10} f ker g inf z sup a exp b ln c lg d log e log_{10} f ker g deg h gcd i Pr j det k hom l arg m dim n deg h gcd i Pr j det k hom l arg m dim n,!

Modular arithmetic

s_k equiv 0 pmod{m} s_k equiv 0 pmod{m},! a,bmod,b a,bmod,b,!

Derivatives

nabla , partial x , dx , dot x , ddot y, dy/dx, frac{dy}{dx}, frac{partial^2 y}{partial x_1,partial x_2} nabla , partial x , dx , dot x , ddot y, dy/dx, frac{dy}{dx}, frac{partial^2 y}{partial x_1,partial x_2}

Sets

forall exists empty emptyset varnothing forall exists empty emptyset varnothing,! in ni not in notin subset subseteq supset supseteq in ni not in notin subset subseteq supset supseteq,! cap bigcap cup bigcup biguplus setminus smallsetminus cap bigcap cup bigcup biguplus setminus smallsetminus,! sqsubset sqsubseteq sqsupset sqsupseteq sqcap sqcup bigsqcup sqsubset sqsubseteq sqsupset sqsupseteq sqcap sqcup bigsqcup,!

Operators

+ oplus bigoplus pm mp - + oplus bigoplus pm mp – ,! times otimes bigotimes cdot circ bullet bigodot times otimes bigotimes cdot circ bullet bigodot,! star * / div frac{1}{2} star * / div frac{1}{2},!

Logic

land (or and) wedge bigwedge bar{q} to p land wedge bigwedge bar{q} to p,! lor vee bigvee lnot neg q And lor vee bigvee lnot neg q And,!

Root

sqrt{2} sqrt[n]{x} sqrt{2} sqrtn{x},!

Relations

sim approx simeq cong dot= overset{underset{mathrm{def}}{}}{=} sim approx simeq cong dot= overset{underset{mathrm{def}}{}}{=},! le < ll gg ge > equiv notequiv ne mbox{or} neq propto le < ll gg ge > equiv notequiv ne mbox{or} neq propto,!

Geometric

Diamond Box triangle angle perp mid nmid | 45^circ Diamond , Box , triangle , angle perp , mid ; nmid , | 45^circ,!

Arrows

leftarrow (or gets) rightarrow (or to) nleftarrow notto leftrightarrow nleftrightarrow longleftarrow longrightarrow longleftrightarrow leftarrow rightarrow nleftarrow notto leftrightarrow nleftrightarrow longleftarrow longrightarrow longleftrightarrow ,! Leftarrow Rightarrow nLeftarrow nRightarrow Leftrightarrow nLeftrightarrow Longleftarrow Longrightarrow Longleftrightarrow (or iff) Leftarrow Rightarrow nLeftarrow nRightarrow Leftrightarrow nLeftrightarrow Longleftarrow Longrightarrow Longleftrightarrow ,! uparrow downarrow updownarrow Uparrow Downarrow Updownarrow nearrow searrow swarrow nwarrow uparrow downarrow updownarrow Uparrow Downarrow Updownarrow nearrow searrow swarrow nwarrow rightharpoonup rightharpoondown leftharpoonup leftharpoondown upharpoonleft upharpoonright downharpoonleft downharpoonright rightleftharpoons leftrightharpoons rightharpoonup rightharpoondown leftharpoonup leftharpoondown upharpoonleft upharpoonright downharpoonleft downharpoonright rightleftharpoons leftrightharpoons ,! curvearrowleft circlearrowleft Lsh upuparrows rightrightarrows rightleftarrows Rrightarrow rightarrowtail looparrowright curvearrowleft circlearrowleft Lsh upuparrows rightrightarrows rightleftarrows Rrightarrow rightarrowtail looparrowright ,! curvearrowright circlearrowright Rsh downdownarrows leftleftarrows leftrightarrows Lleftarrow leftarrowtail looparrowleft curvearrowright circlearrowright Rsh downdownarrows leftleftarrows leftrightarrows Lleftarrow leftarrowtail looparrowleft ,! mapsto longmapsto hookrightarrow hookleftarrow multimap leftrightsquigarrow rightsquigarrow mapsto longmapsto hookrightarrow hookleftarrow multimap leftrightsquigarrow rightsquigarrow ,!

Special

And eth S P % dagger ddagger ldots cdots And eth S P % dagger ddagger ldots cdots,! smile frown wr triangleleft triangleright infty bot top smile frown wr triangleleft triangleright infty bot top,! vdash vDash Vdash models lVert rVert imath hbar vdash vDash Vdash models lVert rVert imath hbar,! ell mho Finv Re Im wp complement ell mho Finv Re Im wp complement,! diamondsuit heartsuit clubsuit spadesuit Game flat natural sharp diamondsuit heartsuit clubsuit spadesuit Game flat natural sharp,!

Unsorted (new stuff)

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Larger Expressions

Parenthesizing big expressions, brackets, bars

Feature Syntax How it looks rendered Bad (frac{1}{2}) (frac{1}{2}) Good left (frac{1}{2} right) left (frac{1}{2} right)

You can use various delimiters with left and right:

Feature Syntax How it looks rendered Parentheses left (frac{a}{b} right) left (frac{a}{b} right) Brackets left [frac{a}{b} right] quad left lbrack frac{a}{b} right rbrack left right quad left lbrack frac{a}{b} right rbrack Braces left { frac{a}{b} right } quad left lbrace frac{a}{b} right rbrace left { frac{a}{b} right } quad left lbrace frac{a}{b} right rbrace Angle brackets left langle frac{a}{b} right rangle left langle frac{a}{b} right rangle Bars and double bars left | frac{a}{b} right vert left Vert

frac{c}{d} right | left | frac{a}{b} right vert left Vert frac{c}{d} right | Floor and ceiling functions: left lfloor frac{a}{b} right rfloor left lceil frac{c}{d} right rceil left lfloor frac{a}{b} right rfloor left lceil frac{c}{d} right rceil Slashes and backslashes left / frac{a}{b} right backslash left / frac{a}{b} right backslash Up, down and up-down arrows left uparrow frac{a}{b} right downarrow quad left Uparrow frac{a}{b} right Downarrow quad left updownarrow frac{a}{b} right Updownarrow left uparrow frac{a}{b} right downarrow quad left Uparrow frac{a}{b} right Downarrow quad left updownarrow frac{a}{b} right Updownarrow Delimiters can be mixed,
as long as left and right match || left [0,1 right)
left langle psi right | || left left . frac{A}{B} right } to X Size of the delimiters big(Big(bigg(Bigg(dots Bigg bigg] Big] big] . big{ Big{ bigg{ Bigg{ dots Biggrangle biggrangle Bigrangle bigrangle big{ Big{ bigg{ Bigg{ dots Biggrangle biggrangle Bigrangle bigrangle . big| Big| bigg| Bigg| dots Bigg| bigg| Big| big| big| Big| bigg| Bigg| dots Bigg| bigg| Big| big| . biglfloor Biglfloor bigglfloor Bigglfloor dots Biggrceil biggrceil Bigrceil bigrceil biglfloor Biglfloor bigglfloor Bigglfloor dots Biggrceil biggrceil Bigrceil bigrceil . biguparrow Biguparrow bigguparrow Bigguparrow dots BiggDownarrow biggDownarrow BigDownarrow bigDownarrow biguparrow Biguparrow bigguparrow Bigguparrow dots BiggDownarrow biggDownarrow BigDownarrow bigDownarrow . bigupdownarrow Bigupdownarrow biggupdownarrow Biggupdownarrow dots BiggUpdownarrow biggUpdownarrow BigUpdownarrow bigUpdownarrow bigupdownarrow Bigupdownarrow biggupdownarrow Biggupdownarrow dots BiggUpdownarrow biggUpdownarrow BigUpdownarrow bigUpdownarrow . big / Big / bigg / Bigg / dots Biggbackslash biggbackslash Bigbackslash bigbackslash big / Big / bigg / Bigg / dots Biggbackslash biggbackslash Bigbackslash bigbackslash

Alphabets and typefaces

Texvc cannot render arbitrary Unicode characters. Those it can handle can be entered by the expressions below. For others, such as Cyrillic, they can be entered as Unicode or HTML entities in running text, but cannot be used in displayed formulas.

_2. **Greek alphabet** Alpha Beta Gamma Delta Epsilon Zeta Alpha Beta Gamma Delta Epsilon Zeta ,! Eta Theta Iota Kappa Lambda Mu Eta Theta Iota Kappa Lambda Mu ,! Nu Xi Pi Rho Sigma Tau Nu Xi Pi Rho Sigma Tau,! Upsilon Phi Chi Psi Omega Upsilon Phi Chi Psi Omega ,! alpha beta gamma delta epsilon zeta alpha beta gamma delta epsilon zeta ,! eta theta iota kappa lambda mu eta theta iota kappa lambda mu ,! nu xi pi rho sigma tau nu xi pi rho sigma tau ,! upsilon phi chi psi omega upsilon phi chi psi omega ,! varepsilon digamma vartheta varkappa varepsilon digamma vartheta varkappa ,! varpi varrho varsigma varphi varpi varrho varsigma varphi,! _2. **Blackboard Bold/Scripts** mathbb{A} mathbb{B} mathbb{C} mathbb{D} mathbb{E} mathbb{F} mathbb{G} mathbb{A} mathbb{B} mathbb{C} mathbb{D} mathbb{E} mathbb{F} mathbb{G} ,! mathbb{H} mathbb{I} mathbb{J} mathbb{K} mathbb{L} mathbb{M} mathbb{H} mathbb{I} mathbb{J} mathbb{K} mathbb{L} mathbb{M} ,! mathbb{N} mathbb{O} mathbb{P} mathbb{Q} mathbb{R} mathbb{S} mathbb{T} mathbb{N} mathbb{O} mathbb{P} mathbb{Q} mathbb{R} mathbb{S} mathbb{T} ,! mathbb{U} mathbb{V} mathbb{W} mathbb{X} mathbb{Y} mathbb{Z} mathbb{U} mathbb{V} mathbb{W} mathbb{X} mathbb{Y} mathbb{Z},! _2. **boldface (vectors)** mathbf{A} mathbf{B} mathbf{C} mathbf{D} mathbf{E} mathbf{F} mathbf{G} mathbf{A} mathbf{B} mathbf{C} mathbf{D} mathbf{E} mathbf{F} mathbf{G} ,! mathbf{H} mathbf{I}

mathbf{J} mathbf{K} mathbf{L} mathbf{M} mathbf{H} mathbf{I} mathbf{J} mathbf{K} mathbf{L} mathbf{M} ,! mathbf{N} mathbf{O} mathbf{P} mathbf{Q} mathbf{R} mathbf{S} mathbf{T} mathbf{N} mathbf{O} mathbf{P} mathbf{Q} mathbf{R} mathbf{S} mathbf{T} ,! mathbf{U} mathbf{V} mathbf{W} mathbf{X} mathbf{Y} mathbf{Z} mathbf{U} mathbf{V} mathbf{W} mathbf{X} mathbf{Y} mathbf{Z} ,! mathbf{a} mathbf{b} mathbf{c} mathbf{d} mathbf{e} mathbf{f} mathbf{g} mathbf{a} mathbf{b} mathbf{c} mathbf{d} mathbf{e} mathbf{f} mathbf{g} ,! mathbf{h} mathbf{i} mathbf{j} mathbf{k} mathbf{l} mathbf{m} mathbf{h} mathbf{i} mathbf{j} mathbf{k} mathbf{l} mathbf{m} ,! mathbf{n} mathbf{o} mathbf{p} mathbf{q} mathbf{r} mathbf{s} mathbf{t} mathbf{n} mathbf{o} mathbf{p} mathbf{q} mathbf{r} mathbf{s} mathbf{t} ,! mathbf{u} mathbf{v} mathbf{w} mathbf{x} mathbf{y} mathbf{z} mathbf{u} mathbf{v} mathbf{w} mathbf{x} mathbf{y} mathbf{z} ,! mathbf{0} mathbf{1} mathbf{2} mathbf{3} mathbf{4} mathbf{0} mathbf{1} mathbf{2} mathbf{3} mathbf{4} ,! mathbf{5} mathbf{6} mathbf{7} mathbf{8} mathbf{9} mathbf{5} mathbf{6} mathbf{7} mathbf{8} mathbf{9},! _2. **Boldface (greek)** boldsymbol{Alpha} boldsymbol{Beta} boldsymbol{Gamma} boldsymbol{Delta} boldsymbol{Epsilon} boldsymbol{Zeta} boldsymbol{Alpha} boldsymbol{Beta} boldsymbol{Gamma} boldsymbol{Delta} boldsymbol{Epsilon} boldsymbol{Zeta} ,! boldsymbol{Eta} boldsymbol{Theta} boldsymbol{Iota} boldsymbol{Kappa} boldsymbol{Lambda} boldsymbol{Mu} boldsymbol{Eta} boldsymbol{Theta} boldsymbol{Iota} boldsymbol{Kappa} boldsymbol{Lambda} boldsymbol{Mu},! boldsymbol{Nu} boldsymbol{Xi} boldsymbol{Pi} boldsymbol{Rho} boldsymbol{Sigma} boldsymbol{Tau} boldsymbol{Nu} boldsymbol{Xi} boldsymbol{Pi} boldsymbol{Rho} boldsymbol{Sigma} boldsymbol{Tau},! boldsymbol{Upsilon} boldsymbol{Phi} boldsymbol{Chi} boldsymbol{Psi} boldsymbol{Omega} boldsymbol{Upsilon} boldsymbol{Phi} boldsymbol{Chi} boldsymbol{Psi} boldsymbol{Omega},! boldsymbol{alpha} boldsymbol{beta} boldsymbol{gamma} boldsymbol{delta} boldsymbol{epsilon} boldsymbol{zeta} boldsymbol{alpha} boldsymbol{beta} boldsymbol{gamma} boldsymbol{delta} boldsymbol{epsilon} boldsymbol{zeta},! boldsymbol{eta} boldsymbol{theta} boldsymbol{iota} boldsymbol{kappa} boldsymbol{lambda} boldsymbol{mu} boldsymbol{eta} boldsymbol{theta} boldsymbol{iota} boldsymbol{kappa} boldsymbol{lambda} boldsymbol{mu},! boldsymbol{nu} boldsymbol{xi} boldsymbol{pi} boldsymbol{rho} boldsymbol{sigma} boldsymbol{tau} boldsymbol{nu} boldsymbol{xi} boldsymbol{pi} boldsymbol{rho} boldsymbol{sigma} boldsymbol{tau},! boldsymbol{upsilon} boldsymbol{phi} boldsymbol{chi} boldsymbol{psi} boldsymbol{omega} boldsymbol{upsilon} boldsymbol{phi} boldsymbol{chi} boldsymbol{psi} boldsymbol{omega},! boldsymbol{varepsilon} boldsymbol{digamma} boldsymbol{vartheta} boldsymbol{varkappa} boldsymbol{varepsilon} boldsymbol{digamma} boldsymbol{vartheta} boldsymbol{varkappa} ,! boldsymbol{varpi} boldsymbol{varrho} boldsymbol{varsigma} boldsymbol{varphi} boldsymbol{varpi} boldsymbol{varrho} boldsymbol{varsigma} boldsymbol{varphi},! _2. **Italics** mathit{A} mathit{B} mathit{C} mathit{D} mathit{E} mathit{F} mathit{G} mathit{A} mathit{B} mathit{C} mathit{D} mathit{E} mathit{F} mathit{G} ,! mathit{H} mathit{I} mathit{J} mathit{K} mathit{L} mathit{M} mathit{H} mathit{I} mathit{J} mathit{K} mathit{L} mathit{M} ,! mathit{N} mathit{O} mathit{P} mathit{Q} mathit{R} mathit{S} mathit{T} mathit{N} mathit{O} mathit{P} mathit{Q} mathit{R} mathit{S} mathit{T} ,! mathit{U} mathit{V} mathit{W} mathit{X} mathit{Y} mathit{Z} mathit{U} mathit{V} mathit{W} mathit{X} mathit{Y} mathit{Z} ,! mathit{a} mathit{b} mathit{c} mathit{d} mathit{e} mathit{f} mathit{g} mathit{a} mathit{b} mathit{c} mathit{d} mathit{e} mathit{f} mathit{g} ,! mathit{h} mathit{i} mathit{j} mathit{k} mathit{l} mathit{m} mathit{h} mathit{i} mathit{j} mathit{k} mathit{l} mathit{m} ,! mathit{n} mathit{o} mathit{p} mathit{q} mathit{r} mathit{s} mathit{t} mathit{n} mathit{o} mathit{p} mathit{q} mathit{r} mathit{s} mathit{t} ,! mathit{u} mathit{v} mathit{w} mathit{x}

mathit{y} mathit{z} mathit{u} mathit{v} mathit{w} mathit{x} mathit{y} mathit{z} ,! mathit{0} mathit{1} mathit{2} mathit{3} mathit{4} mathit{0} mathit{1} mathit{2} mathit{3} mathit{4} ,! mathit{5} mathit{6} mathit{7} mathit{8} mathit{9} mathit{5} mathit{6} mathit{7} mathit{8} mathit{9},! _2. **Roman typeface** mathrm{A} mathrm{B} mathrm{C} mathrm{D} mathrm{E} mathrm{F} mathrm{G} mathrm{A} mathrm{B} mathrm{C} mathrm{D} mathrm{E} mathrm{F} mathrm{G} ,! mathrm{H} mathrm{I} mathrm{J} mathrm{K} mathrm{L} mathrm{M} mathrm{H} mathrm{I} mathrm{J} mathrm{K} mathrm{L} mathrm{M} ,! mathrm{N} mathrm{O} mathrm{P} mathrm{Q} mathrm{R} mathrm{S} mathrm{T} mathrm{N} mathrm{O} mathrm{P} mathrm{Q} mathrm{R} mathrm{S} mathrm{T} ,! mathrm{U} mathrm{V} mathrm{W} mathrm{X} mathrm{Y} mathrm{Z} mathrm{U} mathrm{V} mathrm{W} mathrm{X} mathrm{Y} mathrm{Z} ,! mathrm{a} mathrm{b} mathrm{c} mathrm{d} mathrm{e} mathrm{f} mathrm{g} mathrm{a} mathrm{b} mathrm{c} mathrm{d} mathrm{e} mathrm{f} mathrm{g},! mathrm{h} mathrm{i} mathrm{j} mathrm{k} mathrm{l} mathrm{m} mathrm{h} mathrm{i} mathrm{j} mathrm{k} mathrm{l} mathrm{m} ,! mathrm{n} mathrm{o} mathrm{p} mathrm{q} mathrm{r} mathrm{s} mathrm{t} mathrm{n} mathrm{o} mathrm{p} mathrm{q} mathrm{r} mathrm{s} mathrm{t} ,! mathrm{u} mathrm{v} mathrm{w} mathrm{x} mathrm{y} mathrm{z} mathrm{u} mathrm{v} mathrm{w} mathrm{x} mathrm{y} mathrm{z} ,! mathrm{0} mathrm{1} mathrm{2} mathrm{3} mathrm{4} mathrm{0} mathrm{1} mathrm{2} mathrm{3} mathrm{4} ,! mathrm{5} mathrm{6} mathrm{7} mathrm{8} mathrm{9} mathrm{5} mathrm{6} mathrm{7} mathrm{8} mathrm{9},! _2. **Fraktur typeface** mathfrak{A} mathfrak{B} mathfrak{C} mathfrak{D} mathfrak{E} mathfrak{F} mathfrak{G} mathfrak{A} mathfrak{B} mathfrak{C} mathfrak{D} mathfrak{E} mathfrak{F} mathfrak{G} ,! mathfrak{H} mathfrak{I} mathfrak{J} mathfrak{K} mathfrak{L} mathfrak{M} mathfrak{H} mathfrak{I} mathfrak{J} mathfrak{K} mathfrak{L} mathfrak{M} ,! mathfrak{N} mathfrak{O} mathfrak{P} mathfrak{Q} mathfrak{R} mathfrak{S} mathfrak{T} mathfrak{N} mathfrak{O} mathfrak{P} mathfrak{Q} mathfrak{R} mathfrak{S} mathfrak{T} ,! mathfrak{U} mathfrak{V} mathfrak{W} mathfrak{X} mathfrak{Y} mathfrak{Z} mathfrak{U} mathfrak{V} mathfrak{W} mathfrak{X} mathfrak{Y} mathfrak{Z} ,! mathfrak{a} mathfrak{b} mathfrak{c} mathfrak{d} mathfrak{e} mathfrak{f} mathfrak{g} mathfrak{a} mathfrak{b} mathfrak{c} mathfrak{d} mathfrak{e} mathfrak{f} mathfrak{g} ,! mathfrak{h} mathfrak{i} mathfrak{j} mathfrak{k} mathfrak{l} mathfrak{m} mathfrak{h} mathfrak{i} mathfrak{j} mathfrak{k} mathfrak{l} mathfrak{m} ,! mathfrak{n} mathfrak{o} mathfrak{p} mathfrak{q} mathfrak{r} mathfrak{s} mathfrak{t} mathfrak{n} mathfrak{o} mathfrak{p} mathfrak{q} mathfrak{r} mathfrak{s} mathfrak{t} ,! mathfrak{u} mathfrak{v} mathfrak{w} mathfrak{x} mathfrak{y} mathfrak{z} mathfrak{u} mathfrak{v} mathfrak{w} mathfrak{x} mathfrak{y} mathfrak{z} ,! mathfrak{0} mathfrak{1} mathfrak{2} mathfrak{3} mathfrak{4} mathfrak{0} mathfrak{1} mathfrak{2} mathfrak{3} mathfrak{4} ,! mathfrak{5} mathfrak{6} mathfrak{7} mathfrak{8} mathfrak{9} mathfrak{5} mathfrak{6} mathfrak{7} mathfrak{8} mathfrak{9},! _2. **Calligraphy/Script** mathcal{A} mathcal{B} mathcal{C} mathcal{D} mathcal{E} mathcal{F} mathcal{G} mathcal{A} mathcal{B} mathcal{C} mathcal{D} mathcal{E} mathcal{F} mathcal{G} ,! mathcal{H} mathcal{I} mathcal{J} mathcal{K} mathcal{L} mathcal{M} mathcal{H} mathcal{I} mathcal{J} mathcal{K} mathcal{L} mathcal{M} ,! mathcal{N} mathcal{O} mathcal{P} mathcal{Q} mathcal{R} mathcal{S} mathcal{T} mathcal{N} mathcal{O} mathcal{P} mathcal{Q} mathcal{R} mathcal{S} mathcal{T} ,! mathcal{U} mathcal{V} mathcal{W} mathcal{X} mathcal{Y} mathcal{Z} mathcal{U} mathcal{V} mathcal{W} mathcal{X} mathcal{Y} mathcal{Z},! _2. **Hebrew** aleph beth gimel daleth aleph beth gimel daleth,!

Formatting issues

Spacing

Note that TeX handles most spacing automatically, but you may sometimes want manual control.

Feature Syntax How it looks rendered double quad space a qquad b a qquad b quad space a quad b a quad b text space a b a b text space without PNG conversion a mbox{ } b a mbox{ } b large space a;b a;b medium space a>b (not supported) small space a,b a,b no space ab ab, small negative space a!b a!b

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