

```
<< RG`;
```

setIndexed

? setIndexed

setIndexed[x] set symbol x as indexed variable,
i.e. x[i], x[i, j] will have sub- and superscripts in Traditional form

```
setIndexed[x]
```

```
x[i]
```

```
x[i]
```

```
x[i] // TraditionalForm
```

 x_i

```
x[i] // TeXForm
```

 x_i

```
x[i, j] // TraditionalForm
```

 x_i^j

```
Clear[x]
```

setPrime

? setPrime

setPrime[x] set symbol prime`x in traditional form to have prime (') as superscript

```
setPrime[x]
```

```
prime`x // TraditionalForm
```

 x'

```
prime`x // TeXForm
```

 x'

```
setIndexed[prime`x]
```

```
prime`x[1] // TraditionalForm
```

 x'_1

```
prime`x[1] // TeXForm
x'_1

Clear[prime`x]; Remove[prime`x]
```

setBar

? setBar

setBar[x] set symbol bar`x in traditional form to have overbar

```
setBar[x]

bar`x // TraditionalForm
 $\overline{x}$ 

bar`x // TeXForm
\bar{x}

Export["/tmp/notation/barx.tex", bar`x // TraditionalForm]
/tmp/notation/barx.tex

Run["pdflatex", "-output-directory=/tmp/notation", "/tmp/notation/barx.tex"]
0

Clear[bar`x]; Remove[bar`x]
```

matrixElement

```
matrixElement["annihilation"] // TraditionalForm
 $\mathcal{M}_{\text{annihilation}}$ 

matrixElement["annihilation"] // TeXForm
\mathcal{M}_{\text{annihilation}}
```