

box transformation in pdf-trans.tex



before



after



bounding box

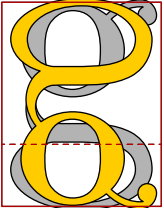
Yoga



`\boxflipx <box>`

`\boxflipx`

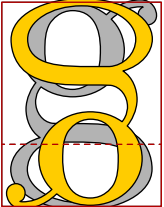
Yoga



`\boxflipy <box>`

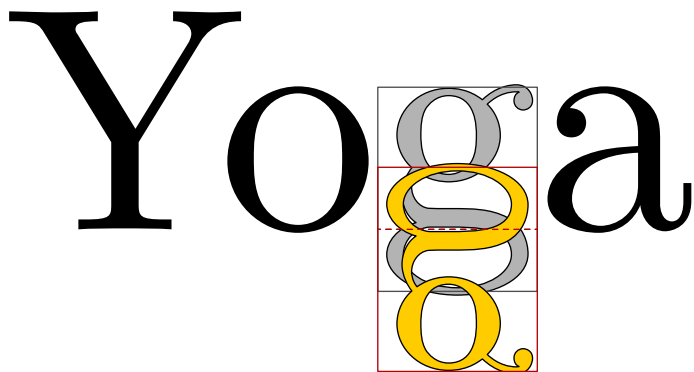
`\boxflipy`

Yoga

A decorative, calligraphic letter 'g' in yellow with a grey shadow. It is enclosed in a red rectangular box. A horizontal dashed red line is drawn across the middle of the box, passing through the center of the 'g'.

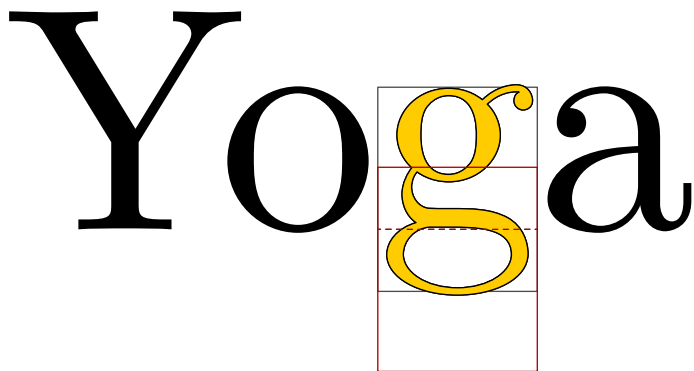
`\boxflipxy` <box>

`\boxflipxy`



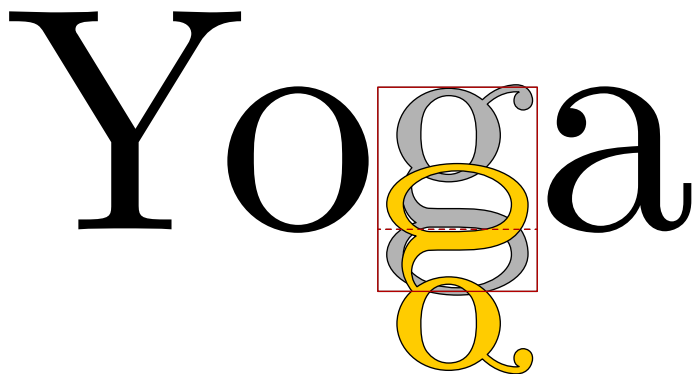
`\boxflipbase <box>`

`\boxflipbase`



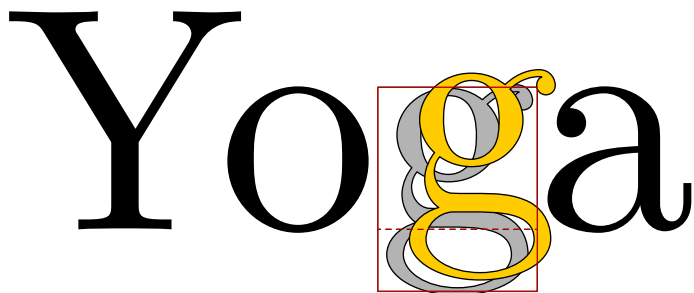
`\bboxtrans {<trans>} <box>`

`\bboxtrans \boxflipbase`



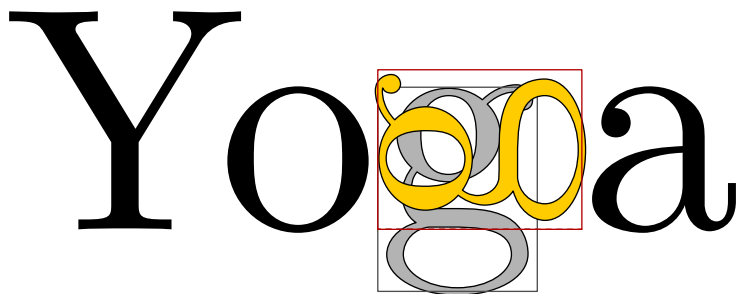
```
\cboxtrans {<trans>} <box>
```

```
\cboxtrans \boxflipbase
```



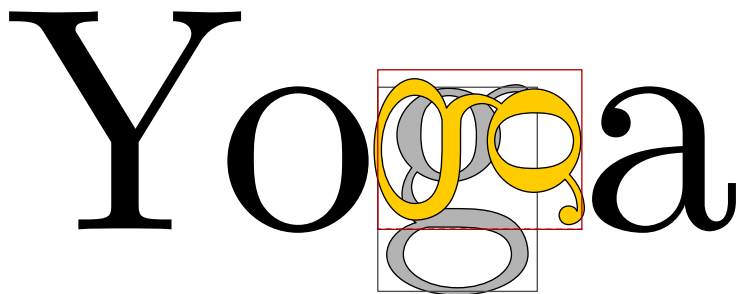
```
\boxtranslate {<dimexpr>}{<dimexpr>} <box>
```

```
\boxtranslate {3mm}{2mm}
```



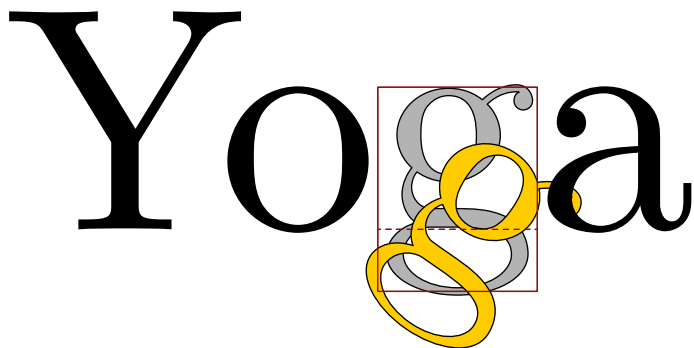
`\boxrevolveleft <box>`

`\boxrevolveleft`



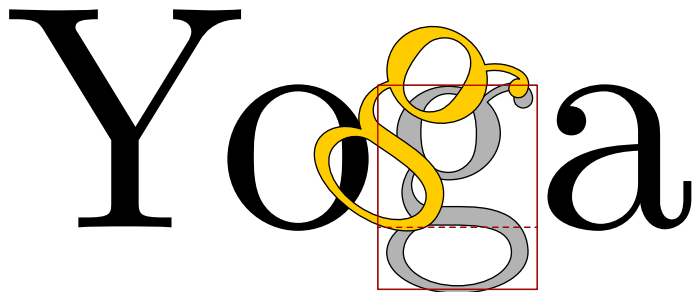
`\boxrevolveright <box>`

`\boxrevolveright`



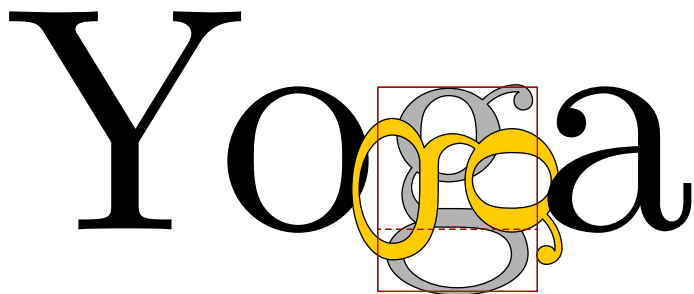
`\boxrotate {<angle>} <box>`

`\boxrotate {394.7}`



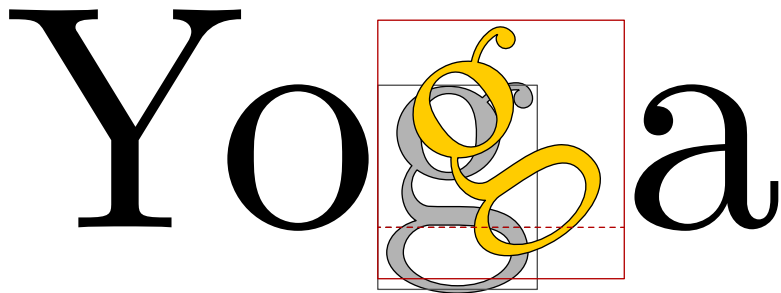
```
\boxrotatexy {<angle>}{<dimexpr>}{<dimexpr>} <box>
```

```
\boxrotatexy {34.2}{\wd \transbox }{\ht \transbox }
```



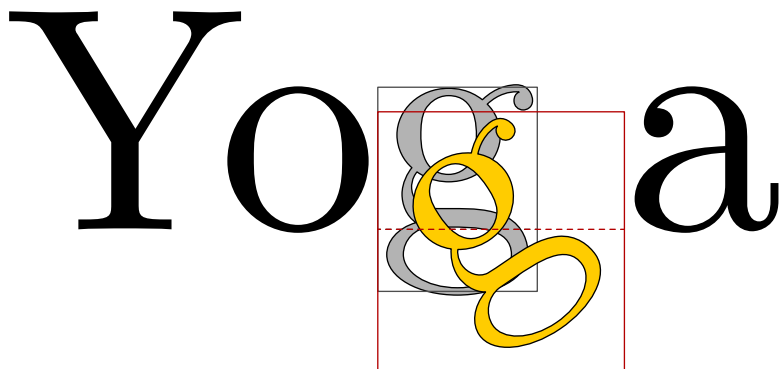
```
\boxrotatec {<angle>} <box>
```

```
\boxrotatec {90}
```



```
\boxrotatebb1 {<angle>} <box>
```

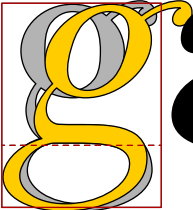
```
\boxrotatebb1 {-34.1}
```



```
\boxrotatebbr {<angle>} <box>
```

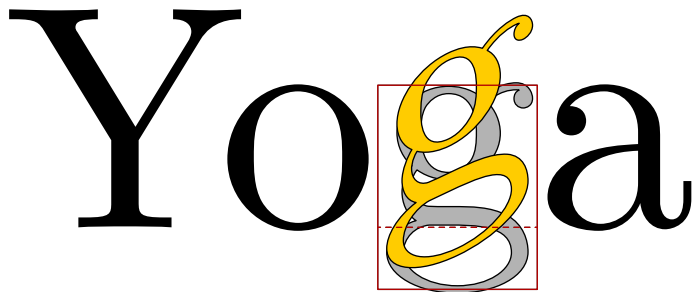
```
\boxrotatebbr {-34.2}
```

Yoga

A decorative lowercase 'g' with a yellow and grey 3D effect, enclosed in a red bounding box. The 'g' is slanted and has a shadow, giving it a three-dimensional appearance. It is positioned between the 'o' and 'a' in the word 'Yoga'.

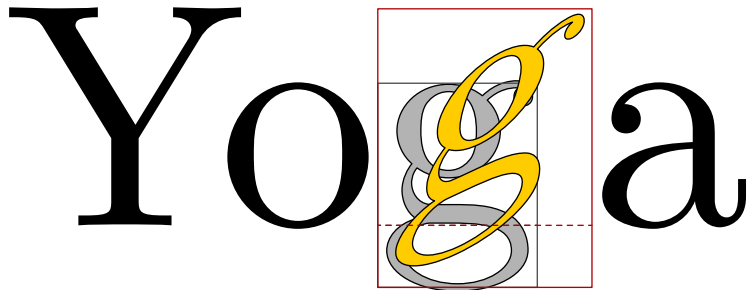
```
\boxslantx {<angle>} <box>
```

```
\boxslantx {15.2}
```



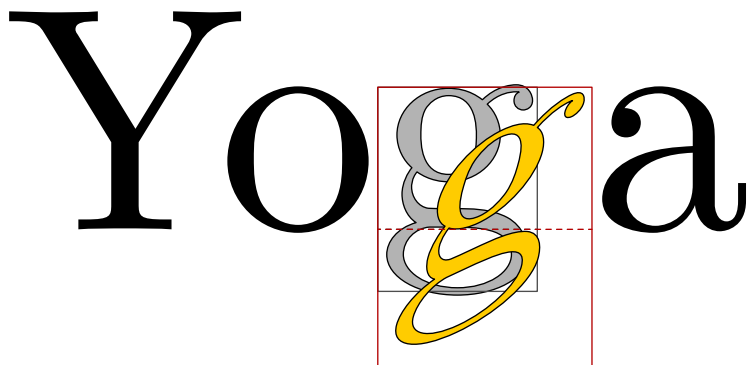
```
\boxslanty {<angle>} <box>
```

```
\boxslanty {25.3}
```



```
\boxslantbb1 {<angle>}{<angle>} <box>
```

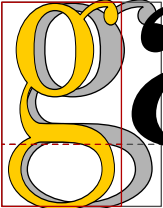
```
\boxslantbb1 {15}{25}
```



```
\boxslantbbr {<angle>}{<angle>} <box>
```

```
\boxslantbbr {15}{25}
```

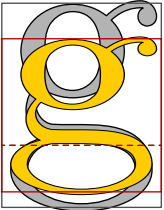
Yoga



```
\boxscalex {<numexpr>} <box>
```

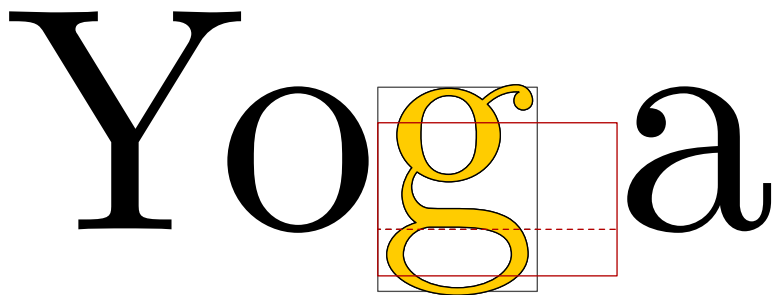
```
\boxscalex {75}
```

Yoga



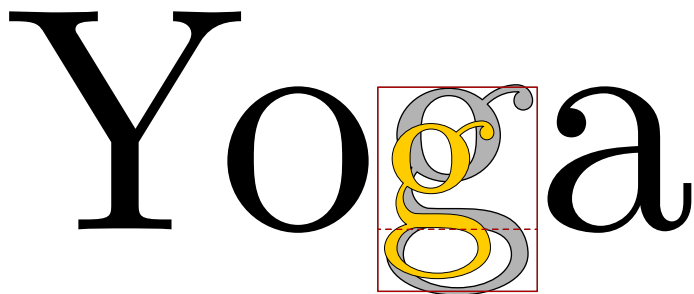
```
\boxscaley {<numexpr>} <box>
```

```
\boxscaley {75}
```



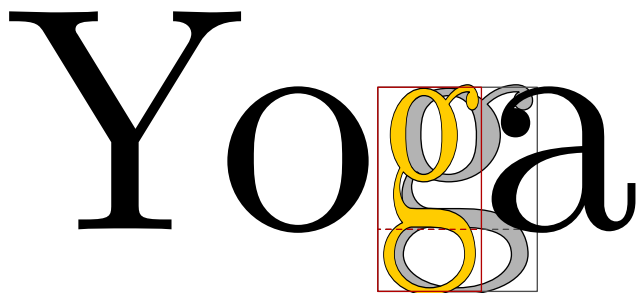
```
\boxscalexy {<numexpr>}{<numexpr>} <box>
```

```
\cboxtransoff \boxscalexy {150}{75}
```



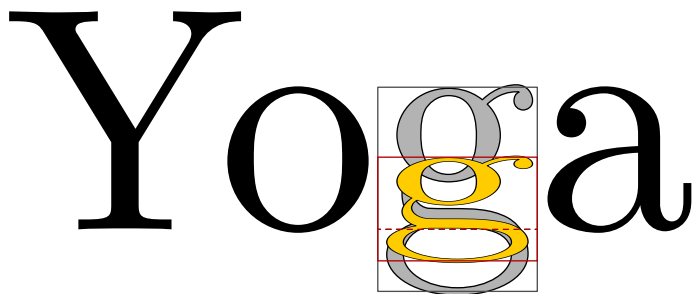
```
\boxscale {<numexpr>} <box>
```

```
\bboxtransoff \boxscale {75}
```



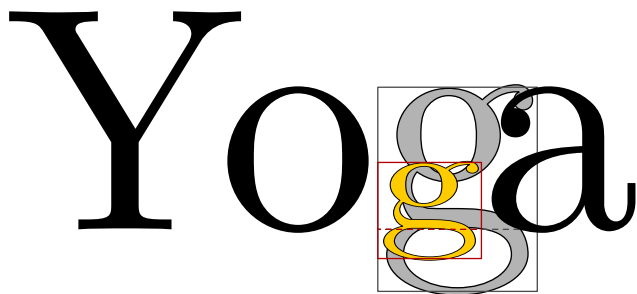
```
\boxscaleto {<dimexpr>} <box>
```

```
\boxscaleto {.5in+.1cm}
```



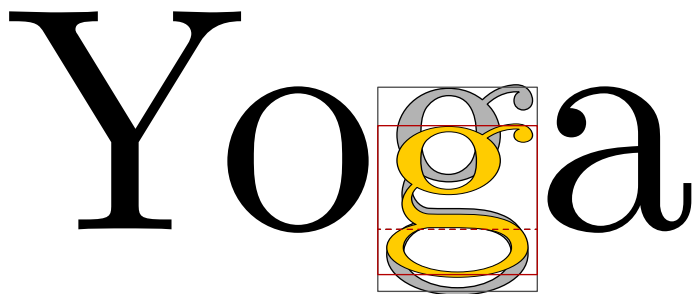
```
\boxscaleyto {<dimexpr>} <box>
```

```
\boxscaleyto {.5in+.1cm}
```



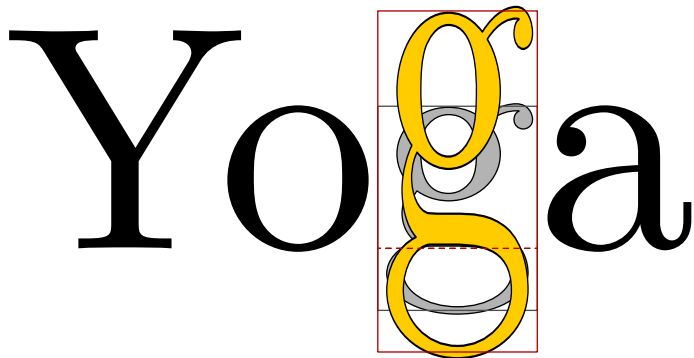
```
\boxscalexyto {<dimxpr>}{<dimexpr>} <box>
```

```
\boxscalexyto {.5in+.1cm}{1in/2}
```



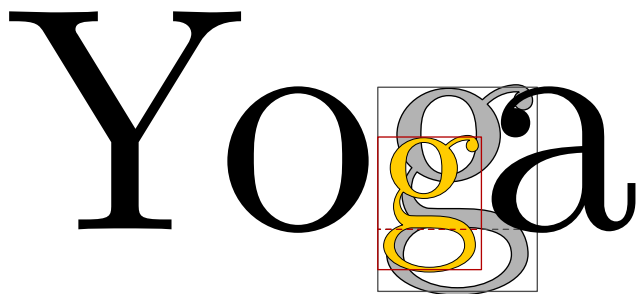
```
\boxscalehtto {<dimexpr>} <box>
```

```
\boxscalehtto {.5in+.1cm}
```



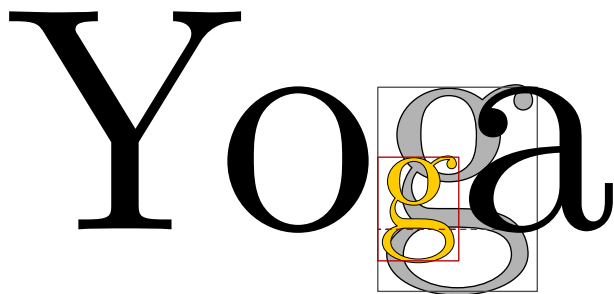
```
\boxscaledpto {<dimexpr>} <box>
```

```
\boxscaledpto {.5in+.1cm}
```



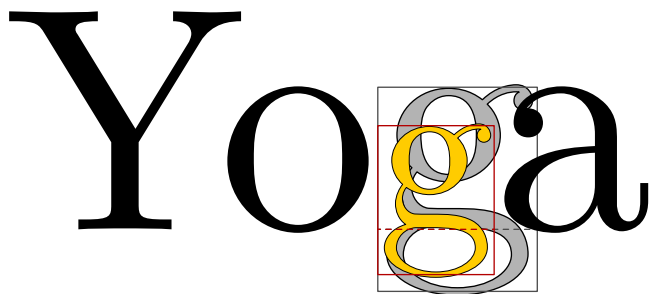
```
\boxuniscalexto {<dimexpr>} <box>
```

```
\boxuniscalexto {.5in+.1cm}
```



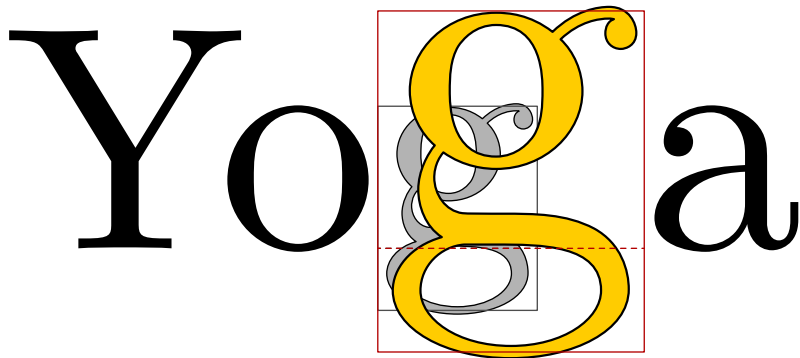
```
\boxuniscaleyto {<dimexpr>} <box>
```

```
\boxuniscaleyto {.5in+.1cm}
```



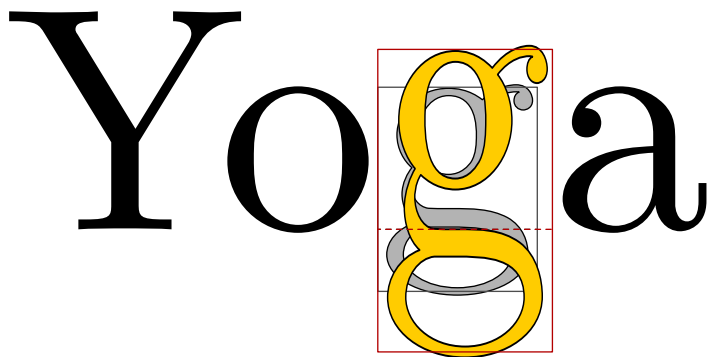
```
\boxunyscalehtto {<dimexpr>} <box>
```

```
\boxunyscalehtto {.5in+.1cm}
```



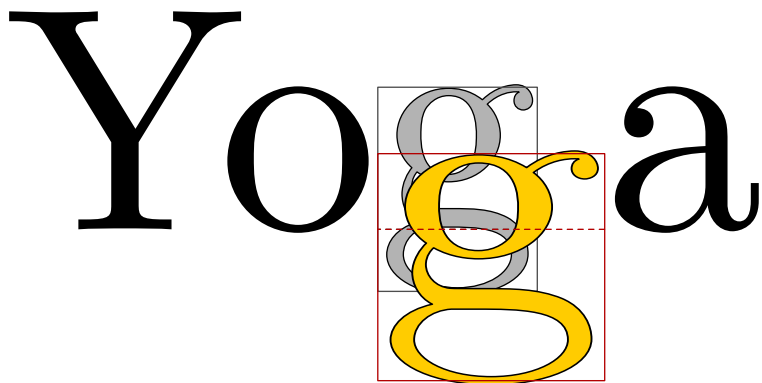
```
\boxuniscaledpto {<dimexpr>} <box>
```

```
\boxuniscaledpto {.5in+.1cm}
```



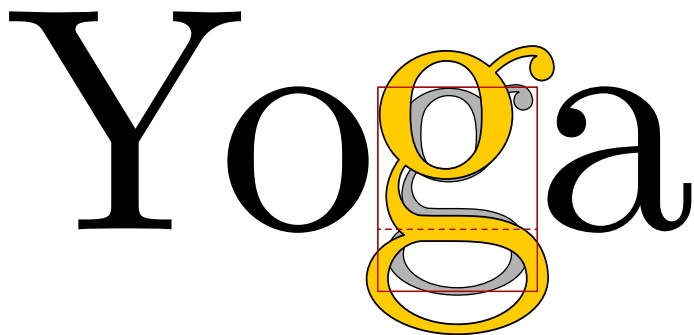
```
\boxextscale {<dimexpr>}{<dimexpr>}{<dimexpr>} <box>
```

```
\boxextscale {2mm}{5mm}{8mm}
```



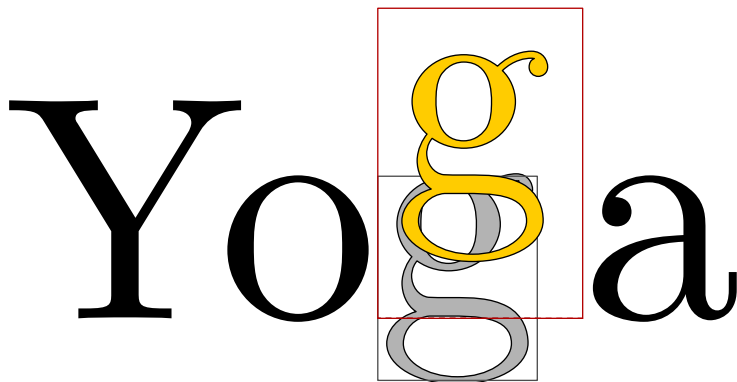
```
\boxextscaleto {<dimexpr>}{<dimexpr>}{<dimexpr>} <box>
```

```
\boxextscaleto {3cm}{1cm}{2cm}
```



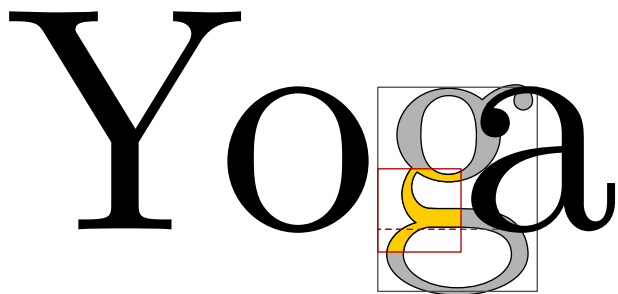
```
\boxexts {<dimexpr>}{<dimexpr>}{<dimexpr>}{<dimexpr>} <box>
```

```
\boxexts {3mm}{3mm}{5mm}{5mm}
```



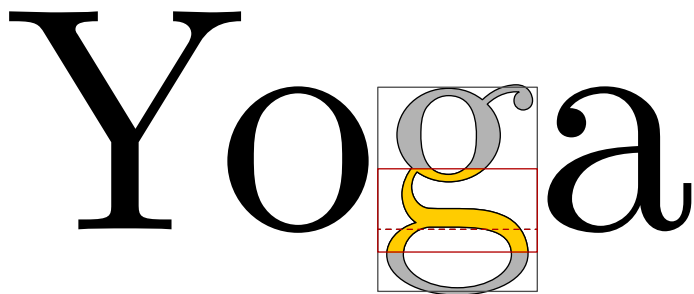
```
\boxextents {<dimexpr>}{<dimexpr>}{<dimexpr>}{<dimexpr>} <box>
```

```
\boxextents {2mm}{4mm}{6mm}{8mm}
```



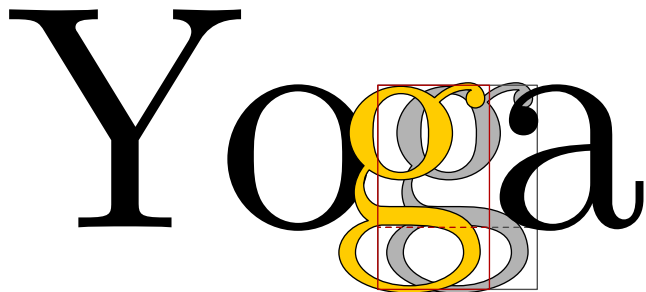
```
\boxxformspec resources{/Foo /Bar} \boxxform <box>
```

```
\boxxformspec resources{\the \pdfpageresources } \boxxform \boxresizeto {11mm}{8mm}{3mm}
```



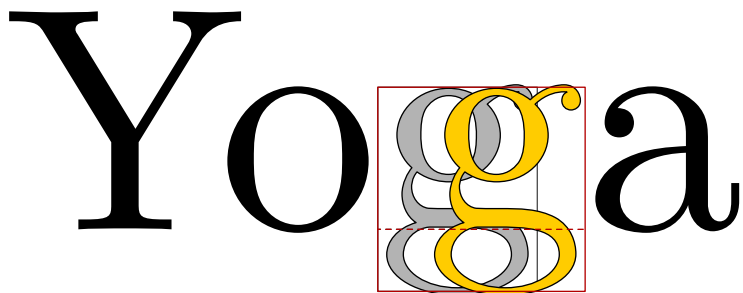
`\boxclip <box>`

`\boxclip \boxresizeto {}{8mm}{3mm}`



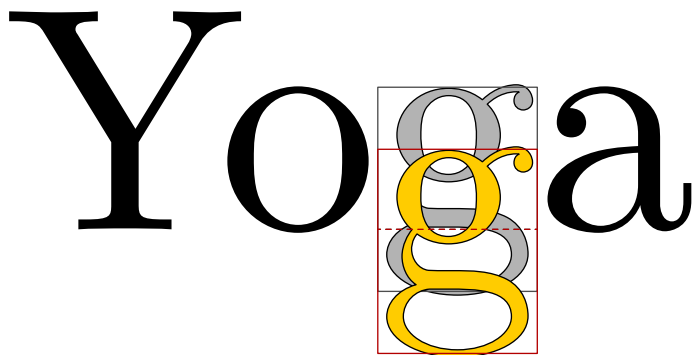
```
\boxmoveleft {<dimexpr>} <box>
```

```
\boxmoveleft {.3\wd \transbox }
```



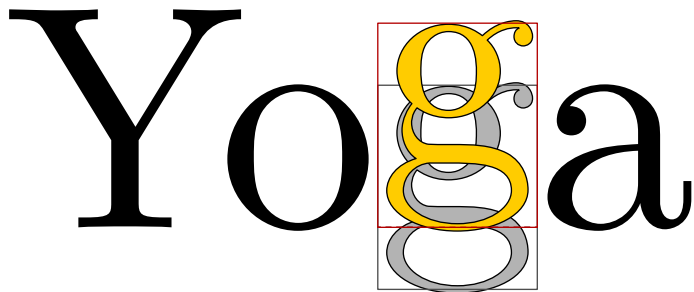
```
\boxmoveright {<dimexpr>} <box>
```

```
\boxmoveright {.3\wd \transbox }
```



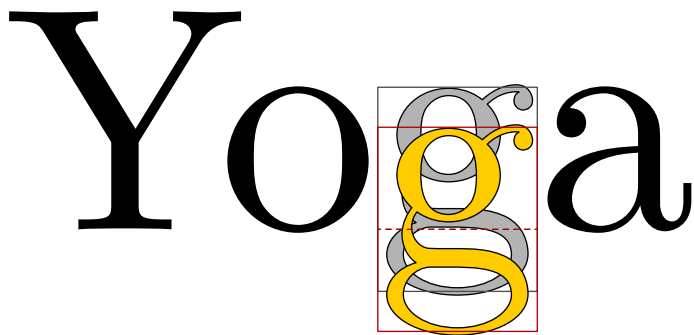
```
\boxlower {<dimexpr>} <box>
```

```
\boxlower {\dp \transbox }
```



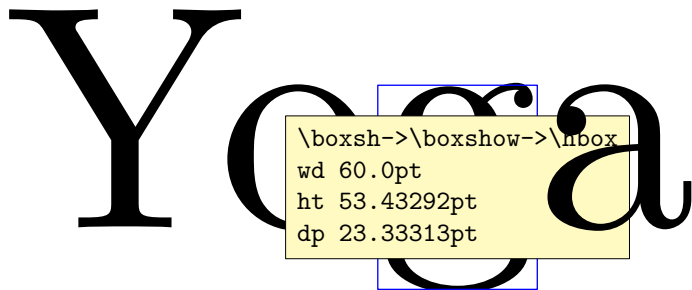
```
\boxraise {<dimexpr>} <box>
```

```
\boxraise {\dp \transbox }
```



```
\boxbaselineat {<numexpr>} <box>
```

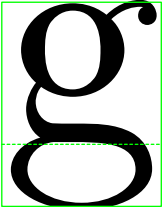
```
\boxbaselineat {50}
```



\boxinfo <box>

\boxinfo \boxsh

Yoga



```
\boxshow {<gsspec>}{<gsspec>}{<gsspec>} <box>
```

```
\boxshow {0 1 0 RG}{[1 1]0 d}{}
```

Yoga

```
\boxmarkers {<dimexpr>}{<dimexpr>}{<gsspec>} <box>
```

```
\boxmarkers {-12pt}{3pt}{1 0 0 RG 1 J}
```

Yoga

```
\boxpath {<gsspec>}{<paintop>} <box>
```

```
\boxpath {3 w .7 0 0 rg 1 .8 0 RG}{B}\bboxtrans {\boxextscale {3mm}{3mm}{3mm}}\boxmoveright {3mm}
```

Yoga

```
\boxroundpath {<dimexpr>}{<gsspec>}{<paintop>} <box>
```

```
\boxroundpath {4mm}{3 w .7 0 0 rg 1 .8 0 RG}{B}\boxextent {3mm}
```

Yoga

```
\boxedgypath {<dimexpr>}{<gsspec>}{<paintop>} <box>
```

```
\boxedgypath {4mm}{3 w .7 0 0 rg 1 .8 0 RG}{B}\boxextent {3mm}
```

Each transformation expands to <box> (\hbox in most cases).

Each transformation must be followed by a <box>.

<box> states for any kind of \TeX box; \hbox, \vbox, \vtop, \box, \copy

<trans> is a list of box transformations

<dimexpr> states for dimen in e \TeX form

<numexpr> states for integer in e \TeX form

<angle> is an integer or float-like string

<gsspec> is a literal pdf content stream

<paintop> means pdf painting operator (S, f, B, W...)

See the code for more.