

# Examples of how to use `shortex.sty`

Created by Jonathan Huggins and Trevor Campbell

Updated July 7, 2021

## 1 Brackets and bracket-like functions

You can specify a bracket size using  $-1, \dots, 4$ , where  $-1$  uses `\left` and `\right`,  $0$  uses nothing, and positive numbers use increasingly large fixed sizes. When inline, bracket sizes are not adjusted.

- Regular brackets: `\rbra{\frac{x}{y}}`
  - Inline:  $(\frac{x}{y})$
  - Display:  $\left(\frac{x}{y}\right)$
- Curly brackets: `\cbra[2]{\frac{x}{y}}`
  - Inline:  $\{\frac{x}{y}\}$
  - Display:  $\left\{\frac{x}{y}\right\}$
- Square brackets: `\sbra[4]{\frac{x}{y}}`
  - Inline:  $[\frac{x}{y}]$
  - Display:  $\left[\frac{x}{y}\right]$

Other bracket-like, semantic command are also available, including `\abs`, `\set`, `\floor`, `\ceil`, `\norm`, `\inner`, and `\card`.

## 2 annotation commands

<code>\barA</code>	$\bar{A}$
<code>\bara</code>	$\bar{a}$
<code>\bA</code>	$\bar{A}$
<code>\bB</code>	$\bar{B}$
<code>\balpha</code>	$\bar{\alpha}$
<code>\bGamma</code>	$\bar{\Gamma}$
<code>\mcA</code>	$\mathcal{A}$
<code>\hmcA</code>	$\hat{\mathcal{A}}$
<code>\mfA</code>	$\mathfrak{A}$
<code>\mfa</code>	$\mathfrak{a}$
<code>\bmfA</code>	$\mathfrak{A}$
<code>\bmfa</code>	$\mathfrak{a}$
<code>\hA</code>	$\hat{A}$
<code>\ha</code>	$\hat{a}$
<code>\halpha</code>	$\hat{\alpha}$
<code>\hGamma</code>	$\hat{\Gamma}$
<code>\bhA</code>	$\hat{\mathbf{A}}$
<code>\bha</code>	$\hat{\mathbf{a}}$
<code>\bhalpha</code>	$\hat{\alpha}$
<code>\bhGamma</code>	$\hat{\Gamma}$
<code>\whA</code>	$\widehat{A}$
<code>\wha</code>	$\widehat{a}$
<code>\tdA</code>	$\tilde{A}$
<code>\tda</code>	$\tilde{a}$
<code>\tdalpha</code>	$\tilde{\alpha}$
<code>\tdGamma</code>	$\tilde{\Gamma}$
<code>\btdA</code>	$\tilde{\mathbf{A}}$
<code>\btda</code>	$\tilde{\mathbf{a}}$
<code>\btdalpha</code>	$\tilde{\alpha}$
<code>\btdGamma</code>	$\tilde{\Gamma}$
<code>\biA</code>	$\mathbf{A}$
<code>\bia</code>	$\mathbf{a}$
<code>\bhiA</code>	$\hat{\mathbf{A}}$
<code>\bhia</code>	$\hat{\mathbf{a}}$