realhats v6.0

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`realhats` is a package for LATEX that makes the `\hat` command put real hats on symbols. For example, the input `\hat{a}=\hat{b}` will produce the output:

$$\hat{a} = \hat{b}$$

To make a vector with a hat, the input `\hat{\mathbf{a}}` produces:

$$\hat{\mathbf{a}}$$

The command `\hat` will choose a hat randomly from thirteen hats:

	beret		Santa hat
	sombrero		witch's hat
	top hat		Ash's hat
	fez		cowboy hat
	crown		dunce's cap
	policeman's hat		Scottish hat
	birthday hat		mortarboard

Variables can be given a non-random hat, using the command `\hat` with an optional parameter:

command	produces	command	produces
`\hat[beret]{a}`		`\hat[santa]{a}`	
`\hat[sombrero]{a}`		`\hat[witch]{a}`	
`\hat[tophat]{a}`		`\hat[ash]{a}`	
`\hat[fez]{a}`		`\hat[cowboy]{a}`	
`\hat[crown]{a}`		`\hat[dunce]{a}`	
`\hat[policeman]{a}`		`\hat[scottish]{a}`	
`\hat[birthday]{a}`		`\hat[mortarboard]{a}`	

You can also pass these same options when loading the package. For example, `\usepackage[cowboy]{realhats}` will cause the package to use cowboy hats everywhere (unless a different hat is given to the `\hat` command).