

# My Paper on NLSY97 Data

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## 1 The First Section

This is where I talk about basic  $\text{\LaTeX}$ . Using the `parskip` package, I can create a new paragraph by using line breaks, which I will do now.

I can also make cool equations inline by using parentheses—like this:  $x + 2$ —or by using single dollar signs—like this:  $x + 2$ . Parentheses are preferred because the left and right delimiter are distinct.

I can make cool equations in a block style by using the `equation` environment like so:

$$y = x\beta + \varepsilon$$

or by using double dollar signs:

$$y = x\beta + \varepsilon$$

Again, the `equation` environment is preferred because the begin and end delimiters are different.

I can also add a bibliography, but this is beyond the scope of our discussion right now. Overleaf has plenty of resources for this on their [website](#). Another good place to look for  $\text{\LaTeX}$  help is the [WikiBook](#) on it.

## 2 The Second Section

Wherein we do tables and graphs. To include the graph we made in ggplot, we create the `figure` environment. The ‘H’ option tells LaTeX to ‘hold’ the position of the figure instead of positioning it somewhere else. I use the `caption` command to add a caption—although I also put a title on the plot in ggplot so you would typically choose one or the other. I use the `label` command after the caption to add a label. Then in my paper I can use the `ref` command and LaTeX knows I am referring to Figure 1.

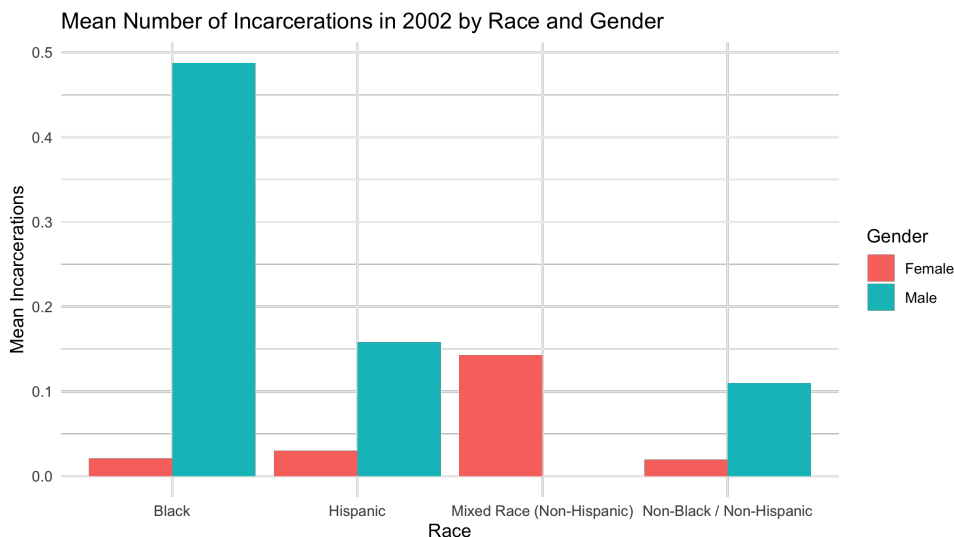


Figure 1: Mean Number of Incarcerations in 2002 by Race and Gender (this is the LaTeX caption, not the ggplot title)

Tables are somewhat easier, since `kableExtra` and `stargazer` generate LaTeX code that is ready to just “copy-paste” into our document. The `label` argument in the R code is the label that the table will have in the tex output, if you want to `ref` it.

Table 1: Mean incarcerations in 2002 by Race and Gender

Gender	Black	Hispanic	Mixed Race Non Hispanic	Non Black Non Hispanic
Female	0.0211268	0.0298013	0.1428571	0.0193192
Male	0.4876712	0.1579509	0.0000000	0.1099476

Table 2: Regression Output. Omitted category is Black Females.

	<i>Dependent variable:</i>
	Arrests in 2002
Hispanic	−0.159*** (0.038)
Mixed Race (Non-Hispanic)	−0.174** (0.083)
Non-Black / Non-Hispanic	−0.189*** (0.035)
Male	0.194*** (0.022)
Constant	0.155*** (0.026)
Observations	8,621
R <sup>2</sup>	0.015
Adjusted R <sup>2</sup>	0.014
Residual Std. Error	1.019 (df = 8616)
F Statistic	32.033*** (df = 4; 8616)
<i>Note:</i>	*p<0.1; **p<0.05; ***p<0.01