

My Paper on NLSY97 Data

Nathan Hattersley

Spring 2022

1 The First Section

This is where I talk about basic \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.

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.

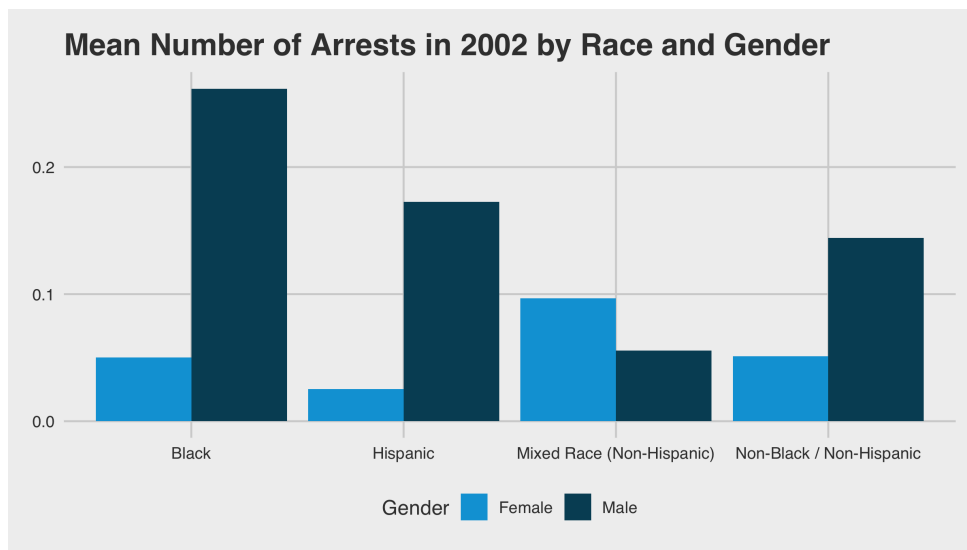


Figure 1: Mean Number of Arrests in 2002 by Race and Gender (this is the \LaTeX caption, not the ggplot title)

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 arrests in 2002 by Race and Gender

Gender	Black	Hispanic	Mixed Race Non Hispanic	Non Black Non Hispanic
Female	0.0500481	0.0251497	0.0967742	0.0510659
Male	0.2617230	0.1725441	0.0555556	0.1443401

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

	<i>Dependent variable:</i>
	Arrests in 2002
Hispanic	−0.055*** (0.019)
Mixed Race (Non-Hispanic)	−0.084* (0.043)
Non-Black / Non-Hispanic	−0.056*** (0.017)
Male	0.134*** (0.012)
Constant	0.087*** (0.013)
Observations	7,692
R ²	0.018
Adjusted R ²	0.017
Residual Std. Error	0.526 (df = 7687)
F Statistic	34.624*** (df = 4; 7687)
<i>Note:</i>	*p<0.1; **p<0.05; ***p<0.01