Title of the paper[[1]](#footnote-1)

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# R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

## Subsection

### Subsubsection

and with a vocational grid addendum stated in paragraph (2)A,

“An individual shall be determined to be under a disability only if his physical or mental impairment or impairments are of such severity that he is not only unable to do his previous work but cannot, considering his age, education, and work experience, engage in any other kind of substantial gainful work which exists in the national economy, regardless of whether such work exists in the immediate area in which he lives, or whether a specific job vacancy exists for him, or whether he would be hired if he applied for work. For purposes of the preceding sentence (with respect to any individual), “work which exists in the national economy” means work which exists in significant numbers either in the region where such individual lives or in several regions of the country.”

The definition of disability for the SSI program is almost identical.[[3]](#footnote-3)

# Tables

The names of columns in a data frame may not be the same as what we want to display to readers. In R, the column names of data often do not use spaces to separate words but dots or underscores instead. This may not feel natural when we read them in a table. We can use the col.names argument to replace the column names with a vector of new names. For example, we substitute the dots with spaces in the column names of the iris data:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sepal Length | Sepal Width | Petal Length | Petal Width | Species |
| 5.1 | 3.5 | 1.4 | 0.2 | setosa |
| 4.9 | 3.0 | 1.4 | 0.2 | setosa |
| 4.7 | 3.2 | 1.3 | 0.2 | setosa |
| 4.6 | 3.1 | 1.5 | 0.2 | setosa |
| 5.0 | 3.6 | 1.4 | 0.2 | setosa |
| 5.4 | 3.9 | 1.7 | 0.4 | setosa |
|  |  |  |  |  |

# Equations

Let's do some math . How about this ?

Display math can be done as

( 1)

Compare the inline math . with the displayed math

# Citations

(Raut [2017](#ref-Raut_2017b); Altae-Tran et al. [2017](#ref-Altae-Tran.etal_2017)) has shown, or inline as Raut ([2017](#ref-Raut_2017b)) and Altae-Tran et al. ([2017](#ref-Altae-Tran.etal_2017))

summary(cars)

## speed dist   
## Min. : 4.0 Min. : 2.00   
## 1st Qu.:12.0 1st Qu.: 26.00   
## Median :15.0 Median : 36.00   
## Mean :15.4 Mean : 42.98   
## 3rd Qu.:19.0 3rd Qu.: 56.00   
## Max. :25.0 Max. :120.00

## Including Plots

You can also embed plots, for example:



Note that the echo = FALSE parameter was added to the code chunk to prevent printing of the R code that generated the plot.

# References

1. Altae-Tran, Han, Bharath Ramsundar, Aneesh S. Pappu, and Vijay Pande. 2017. “Low Data Drug Discovery with One-Shot Learning.” *ACS Central Science* 3 (4): 283–93. doi:[10.1021/acscentsci.6b00367](https://doi.org/10.1021/acscentsci.6b00367).
2. Raut, Lakshmi K. 2017. “Exits from Disability: Estimates from a Competing Risk Model.” Published. *Social Security Bulletin* 77 (3): 15–38. <https://www.ssa.gov/policy/docs/ssb/v77n3/v77n3p15.html>.

1. Acknowledgement [↑](#footnote-ref-1)
2. Social Security Administration, [Lakshmi.Raut@ssa.gov](mailto:Lakshmi.Raut@ssa.gov) [↑](#footnote-ref-2)
3. For details, see <https://www.ssa.gov/OP_Home/ssact/title02/0223.htm> section 223(d)(2) for the OASDI program, and <https://www.ssa.gov/OP_Home/ssact/title16b/1614.htm> paragraph 3(A) for the SSI program. [↑](#footnote-ref-3)