

# Paper Starter Kit Demo

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September 28, 2018

## **Abstract**

State the problem, your approach and solution, and the main contributions of the paper. Include little if any background and motivation. Be factual but comprehensive. The material in the abstract should not be repeated later word for word in the paper.

## **Introduction**

**What is the problem?** Research projects are more difficult to organize than necessary.

- Analyze data
- Display results
- Write report
- Format report

These steps are all done separately and any changes made to the beginning of the process result in more corrections in the rest of the process. These must be found and dealt with manually. Additionally any report may end up with multiple versions and go through many iterations. Therefore it is necessary to track changes in case they need to be undone.

**Why is it interesting and important?** Anyone who does a great deal of research should seek to remove the annoying bits from the research.

**Why is it hard? (E.g., why do naive approaches fail?)**

**Why hasn't it been solved before? (Or, what's wrong with previous proposed solutions? How does mine differ?)**

**What are the key components of my approach and results? Also include any specific limitations.**

## **Background**

This should include a literature review

## Methods and Materials

### Python

### Markdown-mode for Emacs

At the beginning of this text, there is a hidden code block which pulls in several libraries which will be used throughout.

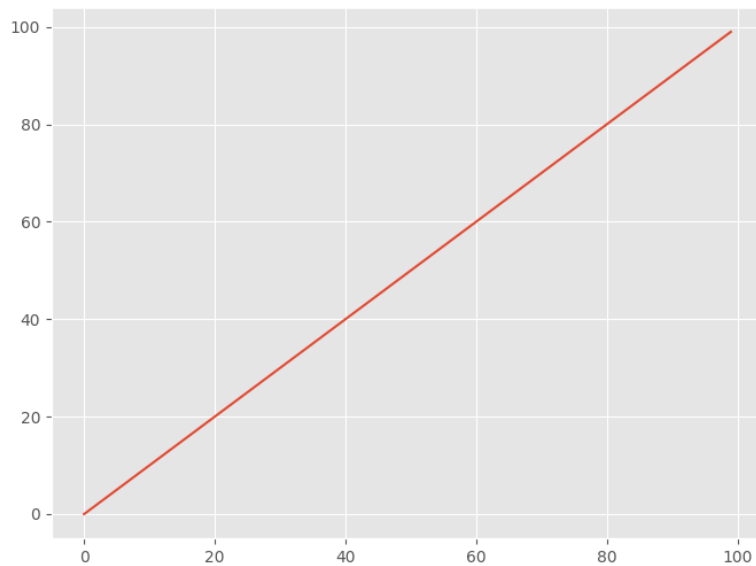
### Pandoc and Pweave

### Git and GitHub

## Data and Results

Most of the meat for coding will go into this area

```
x = np.arange(0,100,1)
plt.plot(x)
```



We can print [ 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24  
25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51

52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78  
79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99] some variable.

## **Discussion**

Your ideas on what the data means

## **Conclusion**

Summary of the findings

Limitations of the study

Recommendations for future work

## **Acknowledgements**

## **Author Disclosure Statement**

No competing financial interests exist.

## **References**