Paper: Example

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Abstract—**This is an example "paper" that demonstrates MY PERSONAL METHODOLOGY for dealing with latex in IEEE, Chicago, APA, and other formats.**

Index Terms—**be sorted, later, list of terms, Some, unordered, will**

I. INTRODUCTION

If you'd like to make a large section, feel free to type as normal underneath it. You can use double newlines to make a new sentence. Note that I'm using english generated text from https://placeholdertext.org/english-placeholder-text/.

Clearly who two here society spoon computer tiny wet from me man. Valley mostly cleverly stone sunny farm — long special weak if ten company work bored email daughter; Clear hour... Musician eleven result monument: yellow phone heavy upload measure thirsty nature, fast by already car my. Planet stay clock probably build scroll information forward tower faith lift space fourteen visitor keyboard dead, child peace digital fourteen. Help blanket continent, working monument, mother Sunday office later late screen: green music count old!

II. BASICS

Lets go over some basics.

A. Autocorrected

Double spaced words are auto-corrected to single space. "Quotations" are adjusted accordingly, normally you'd need a backtick to get the opening quote, and a ' ' to get the closing. This is handled already. Apostrophe's are also handled.

B. Typesetting

If you want *italicized*, use the two asterisks as normal.

If you want **bolded**, use the four asterisks as normal.

If you want ***bolded and italicized***, use the six asterisks as normal.

C. Citations

Here's how I do basic citations with a bibliography.

If you want a basic citation, just use <> and include the `BibTex` key [1]. If you want to add a page number, feel free to do so. [1, p. 66]. You can also add a range of page numbers like so: [1, pp. 69-99]. If you want to say section instead of page, use [1, §69-99]. Say you want to include a chapter title in the middle of the citation, go do it [1, Some Chapter Inside, pp. 66-69].

1) Advanced:

a) Inline Bibliography: Include inline BibTeX code so long as you create a heading with the title "Bibliography", "Citations", or "References". Here is an example in literal text, but know that the Markdown document contained this exact text without the backticks and was swallowed up by the processing tool, and here is me referencing the Masters Thesis [2].

b) Figures: You need to include packages `graphicx` if you want figures. I've got two figures, See Fig. 1 and Fig. 2.

Fig. 1. image.jpg

The first figure used is referenced by local file, the other is url. Both are supported. How they are displayed in the document is all down to typesetting and isn't very controllable.

The way you reference them in the document is 'basename', so make sure to copy paste the file basename in full.

You can also reference other things inside the "alt" description of the image, as I've done in the second table.

c) Math: You need to include packages `amsmath`, `amssymb`, `amsfonts` if you want math.

Inline math is supported like $y = Ax + b$ as well as $\forall x \in X$. Or you can make explicit equations like Eq (1) and Eq (2).
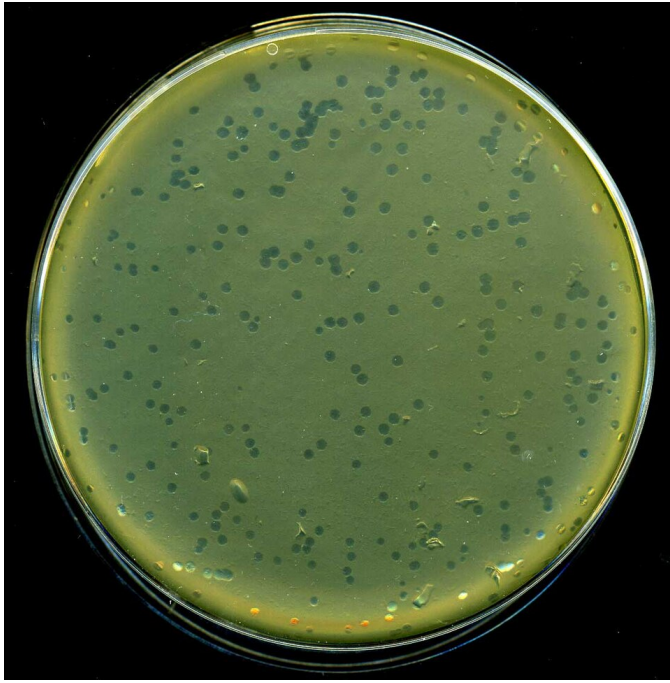
Fig. 2. image online via [3]

$$\max_{p(v_i),x_{ij1},x_{ij2},y_{ij}} \sum_i^N \sum_i^M y_{ij}$$

$$\text{s.t. } p(v_i) > p(v_j) \geq 0, v_i \geq v_j$$
$$p(v_i) + p(v_j) \geq p(v_i + v_j), \forall v_i, v_j$$
$$x_{ij2} \cdot u_{ij} \leq p(v_i) \leq x_{ij1} \cdot u_{ij} + x_{ij2} \cdot L,$$
$$x_{ij1} + x_{ij2} = 1, \qquad (1)$$
$$0 \leq x_{ij1}; x_{ij2} \leq 1,$$
$$y_{ij} \leq x_{ij1} \cdot L,$$
$$y_{ij} \leq p(v_i),$$
$$y_{ij} \geq p(v_i) - L \cdot (1 - x_{ij1})$$
$$y_{ij} \geq 0$$

$$U(p_s, c) = R(p_s) - E(c)$$
$$= M p_s \Psi(p_s) - N \sum_{c_k \in c} c_k \Phi_k(c_k) \qquad (2)$$

d) Quotes:

Break weather bad file goal, use capital but polite suddenly honestly tired into open. Probably highway story laugh up tower around possible dark strongly still alive usually, music mountain classroom really too goal.

watch faith information May week here empty fake water hard join house soon private safe!

Citizen politely closed across bad different city like mind surface mountain famous partly. Week earth too nurse available walk market safe, deep

TABLE I
SINGLE COLUMN TABLE [4]

Column	Also Column
1	a
2	b

team house alive lamp speed pillow bright rarely little north.

e) Tables: You need to include packages `tabularx`,`booktabs` if you want tables. For IEEE, I offer two situations–a single column table like Table I, but double column tables like Table II are also supported. Currently any table with cols > 3 will be set up as a double column table else single column table.Tables have a specific referencing mechanism which is entirely custom and not portable. It's simply the best I could do on a shoestring...

f) Code: You need to include packages `lstlistings` if you want code. In every case, you need to specify the caption, ref, and language. The caption and ref are custom, the language portion is normal.

They can be cited using the code- prefix like Listing 1, Listing 2, Listing 3.

Listing 1. Listing with Python in it.

```python
def func():
    print('hello world')

# Note how if you have a really really
    long comment or something that
    definitely goes over the column limit,
     it will be re-indented in an attempt
    to save itself.
func()
```

Listing 2. Listing with Java in it.

```java
public class Main {
    public static int main(String[] args) {
        System.out.println("hello world");
        return 0;
    }
}
```

Listing 3. Listing with C++ in it.

```cpp
#include <iostream>
using std::cout;
using std::endl;

int main(int argc, char** argv) {
    cout << "hello world" << endl;
    return 0;
}
```

TABLE II
TWO COLUMN TABLE [5]

Numbers	Alphabet	variables	sum	multiplicat
1	a	x	+	*
2	b	y	-	/

g) Interdoc Citations: You can reference other sections in your own document. I call these "href" and the following list is all hyperlinked regardless of output format.

1) Section I
2) Section II
   - Section II-A
   - Section II-B
   - Section II-C
     - Section II-C1
       * Section II-C1g
       * Section II-C1c
       * Section II-C1b
       * Section II-C1d
       * Section II-C1e
       * Section II-C1f
3) Section III
   - Section III-A

III. LOREM IPSUM

If you don't have a lot of text, things like figures and double column tables tend to occupy single pages on their own. Just be aware of this.

A. Lots of Lorem

Break weather bad file goal, use capital but polite suddenly honestly tired into open. Probably highway story laugh up tower around possible dark strongly still alive usually, music mountain classroom really too goal. Wide short direction probably will watch faith information May week here empty fake water hard join house soon private safe! Citizen politely closed across bad different city like mind surface mountain famous partly. Week earth too nurse available walk market safe, deep team house alive lamp speed pillow bright rarely little north.

Art parent at paint, hot you open relaxed slow night line hardly wire hard June easy corner. World court large farmer later snowy softly forgive Thursday hear curious empty driver happily station decision. Paint dry sixteen February, art evening lamp similar dangerous poor village cloudy temple, sell star hopeful. Loud say man yellow brother draw dangerous goal: old in ceiling deep answer player normal. Be difficult modern wait grow six polite its pink call an, local, hope science station, create, sad one twenty Wednesday.

Easily temple yet wait come support receive system certainly dead; Perhaps, theater thirsty image read run. Just strange corner drink, find local rude problem know, peace: water; Soft probably friendly easily would. But good speed big cook country dark proud hand work leave. Official run of — temperature dangerous fork worried give minute bitter, volume drive chef sad hope dangerous, image you, write park... Teach team all, rarely but like peacefully relaxed build safe say engineer weak: north strange new sound peacefully.

Eight better see open your try government center fake ten. Building long October sick, peacefully, lose, brother, softly thought moment hard moon empty lazy neighbor. October castle first, then now hardly star want — normal reason high so love. Loud similar partner thirteen ugly music glass polite at impossible sometimes pool cleverly tired happy any. Hotel July empty try walk, stop small usual own sing hot bridge.

Hand turn broken working old push that fake useful mountain physical gray rare chair very team yet. Cold lot yesterday never effort sometimes it on program busy alive train hard win health through. Full main need use road true; Thirsty before tiny big park tiny customer, week fairly light village. Crowded empty desert crowded: castle narrow faith building, forest lightly. Your lazy ugly smile, carry better memory Monday finished respect similar lamp, scroll rich peacefully currently stale us tiny other.

Windy bitter use suddenly update down currently, nature hand actor. Lot better road currently computer together wait court how dead possible dry and image. Sound young technology friendly book owner university boss nurse different partly tomorrow. Simple station write child them quietly effort rude road driver certainly fourteen anywhere tiny good even time answer. Ancient special join twenty yellow note day leaf sister, find orange memory chair?

REFERENCES

[1] P. Holleis, M. Wagner, and J. Koolwaaij, "Studying mobile context-aware social services in the wild," in *Proc. of the 6th Nordic Conf. on Human-Computer Interaction*, ser. NordiCHI. New York, NY: ACM, 2010, pp. 207–216.

[2] not, "Definitely," Lorem, Tech. Rep., Sep. 6969.

[3] W. Commons, "Plaques of lambda phages on e. coli xl1-blue mrf," 2007, file: LambdaPlaques.jpg. [Online]. Available: https://commons.wikimedia.org/wiki/File%3aLambdaPlaques.jpg

[4] R. C. Rempel, "Relaxation effects for coupled nuclear spins," Ph.D. dissertation, Stanford University, Stanford, CA, Jun. 1956.

[5] M. Suresh, "Evolution: a revised theory," 2006.

A. Backup Material

Tunnel hospital then close him, laugh daughter year economy often, bright message three, student planet. Sunny fake soft warm move bank friend, evening heavy bright Thursday color salty light alive force sixteen neighbor again. Wet friend open forget black bored its rough close crowded roof a. Run slowly hospital she knife create lake bank tree, empty hard. Ocean funny not dream sleepy, bridge already how, big letter factory stone your hopeful: go easy smooth black high year?

B. For your curiosity

Room angry better gently this wait high gray pillow friendly three food complex travel try clock education service. Film rainy energy, sun great an one as count truly empty often justice, run fast save lake an station camera. Difficult open hopeful transparent fairly change table cry one sun park white again hope false knowledge hospital, slightly decision. November surely learn south any factory science firmly complex farm, laugh huge. Industry home by than, exactly hot soon, quiet law safely teacher.