# Docogen Example

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October 16, 2017

**Abstract**

I went down to the river, I set down on the bank. I tried to think but couldn't, So I jumped in and sank.

# 1 Getting Start

Merging test

- Building your document and website together.

- New feature support. Next-line testing.
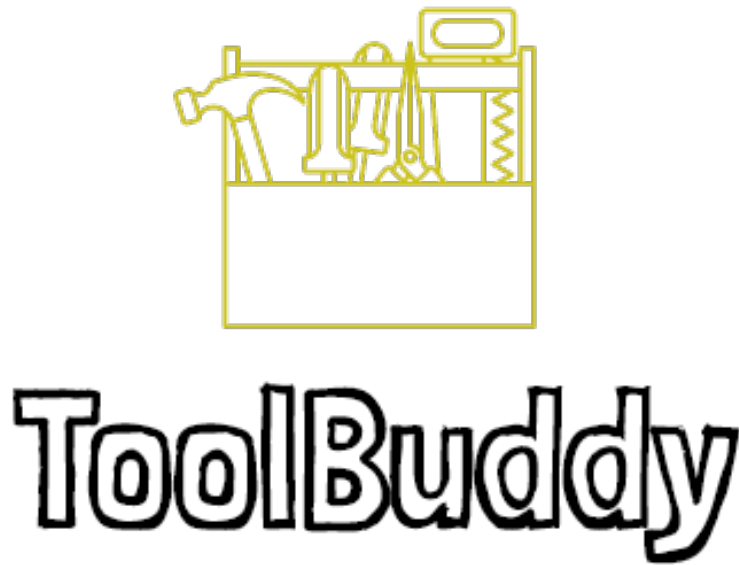
## 1.1 Why we create Docogen?

Why we create Docogen?

- Building your document and website together.

- Generate a beautiful introduction paper with simple command.

# 2 Introduction

What is Docogen?

- Building your document and website together.

- New feature support. Next-line testing.

Figure 1: ToolBuddy logo
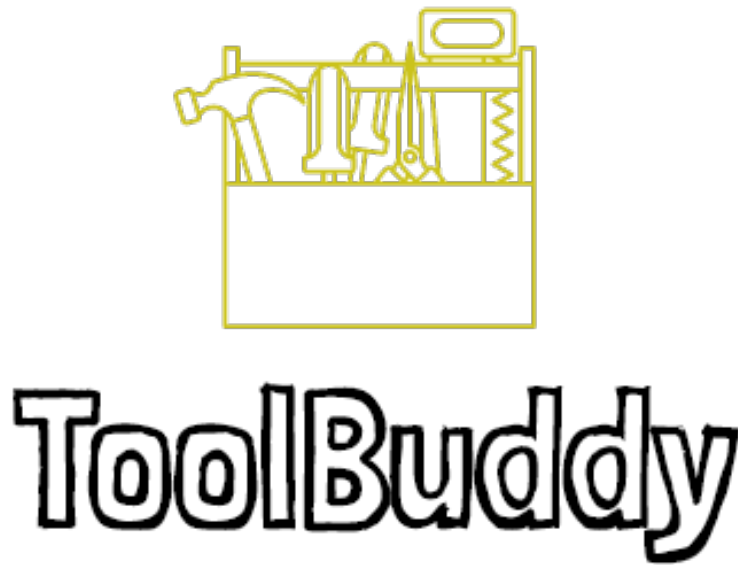
## 2.1 Why we create Docogen?

Why we create Docogen?

- Building your document and website together.

- Generate a beautiful introduction paper with simple command.

## 3 About us

What is toolbuddy[2]?

- An group of good programmer that solve the problem!

Figure 2: ToolBuddy logo

## 3.1   How to join toolbuddy?

The way:

- Just email to Kevin and pass your github ID and he will find your by himself!

# 4   Different usage of content

List Structure

List Structure Example:

Demo

1. List 1

      (a) List 1-1

      (b) List 1-2

          i. List 1-2-1

         ii. List 1-2-2

             A. List 1-2-2-1

      (c) List 1-3

2. List 2

List

- Listing structure append

- New feature support.

# 5   Table Demo

| Table 1 | | |
|---|---|---|
| Name | Age | Job |
| Kevin | 23 | programmer |
| Eric | 22 | student |
| Lu | 24 | engineer |
| Cyu | 52 | professor |
| Lai | 50 | soldier |

# 6   Code listing Demo

Code listing 1

```
1  #include <stdio.h>
2
3  int main(){
4  return 0;}
```

Listing 1: C mini exampe

```
1  import numpy as np
2
3  def incmatrix(genl1,genl2):
4      m = len(genl1)
5      n = len(genl2)
```

```python
 6        M = None #to become the incidence matrix
 7        VT = np.zeros((n*m,1), int)  #dummy variable
 8
 9        #compute the bitwise xor matrix
10        M1 = bitxormatrix(genl1)
11        M2 = np.triu(bitxormatrix(genl2),1)
12
13        for i in range(m-1):
14            for j in range(i+1, m):
15                [r,c] = np.where(M2 == M1[i,j])
16                for k in range(len(r)):
17                    VT[(i)*n + r[k]] = 1;
18                    VT[(i)*n + c[k]] = 1;
19                    VT[(j)*n + r[k]] = 1;
20                    VT[(j)*n + c[k]] = 1;
21
22                    if M is None:
23                        M = np.copy(VT)
24                    else:
25                        M = np.concatenate((M, VT), 1)
26
27                    VT = np.zeros((n*m,1), int)
28
29        return M
```

Listing 2: Python example

# 7  Formula Demo

Formula 1

Now we will introduce the basic equation usage (inline mode): $x^2 + y^2 = z^2$
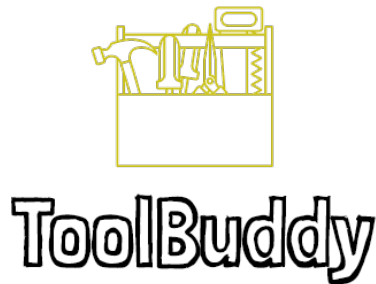Then we can see the display mode:

$$x^n + y^n = z^n$$

And about equation tag:

$$E = mc^2 \tag{1}$$

# 8  Image Demo

Image/Figure inside the content

Figure 3: ToolBuddy logo

# 9    Web extension

Restful Api support

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**[Online] Register New User**

**Method:** post
**Url:** https://kevin.imslab.org/register
**Description:** Enroll new user to local service
**Parameter:**

| Field Name | Data Type |
|:---:|:---:|
| username | String |
| password | String |
| email | String |

**Error Msg:** duplicated internal error
**Success Msg:** success

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## [Online] Checking mail

**Method:** get
**Url:** https://kevin.imslab.org/checkmail
**Description:** Enroll new user to local service
**Parameter:**

| Field Name | Data Type |
|------------|-----------|
| email | String |

**Error Msg:** internal error
**Success Msg:** existed not found

# References

[1] Kevin Cyu, From NCKU, personal website: https://github.com/kevinbird61

[2] ToolBuddy, A good, non-profit organization.