

# DOC-ORG: Docker, Org Mode, Latex

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# 1 Introduction

This example shows a lot of what you can achieve with `doc-org`.

However, `doc-org` uses latex, emacs and org-mode, so the sky is the limit and there will never be a *"full"* example.

## 1.1 header

The `header.tex` file of this example is a good starting point for your document, because it supports a lot of features. Of course, reading all the other examples related to each single feature is recommended to understand what's the role of every line of the header.

## 2 some code

If you specify the programming language, code syntax is highlighted.

```
int main()
{
    printf("hello world\n");
}

# This program prints Hello, world!
print('Hello, world!')
```

## 3 Some math

You can insert latex equation, like equation 1.

$$\phi = \frac{2\pi f D}{c} \tag{1}$$

### 3.1 Other latex equations

Equation 2 reference.

$$D = \frac{c\phi}{2\pi f} \tag{2}$$

#### 3.1.1 A more complicated equation

$$\Delta TOF_{est} = \frac{k_T TOF}{1 + k_T} - 0.5 \frac{\mu'_A - \mu'_T}{1 + k_T}. \tag{3}$$

## 4 lists

### 4.1 numerated

1. one
2. two
  - (a) sub-two
    - i. sub-sub-two
3. three

Here we refer to item **3**.

### 4.2 unnumerated

- One
  - Two
    - \* Three
      - Four
    - \* Five

#### 4.2.1 trivia

Doc-org could mean a lot of things, such as:

- document - organized
- docker - org mode
- docile - organist

A team of 42 linguists is currently searching for the answer.

### 4.3 Enumeration example

**element1** description for element one.

**element2** Very long description for element two, in order to show a multi-line description.

## 5 tables

look how cute is this simple table:

one	two
1	2
3	4

Anchor	MAE	Correlation	MMA	MAPE	RMSE
a1	6.871	-0.372	1.164	0.157	8.515
a2	5.275	0.329	1.127	0.117	6.332
a3	5.406	0.672	1.117	0.114	6.457

Table 1: You can add captions to your tables

## 6 Images

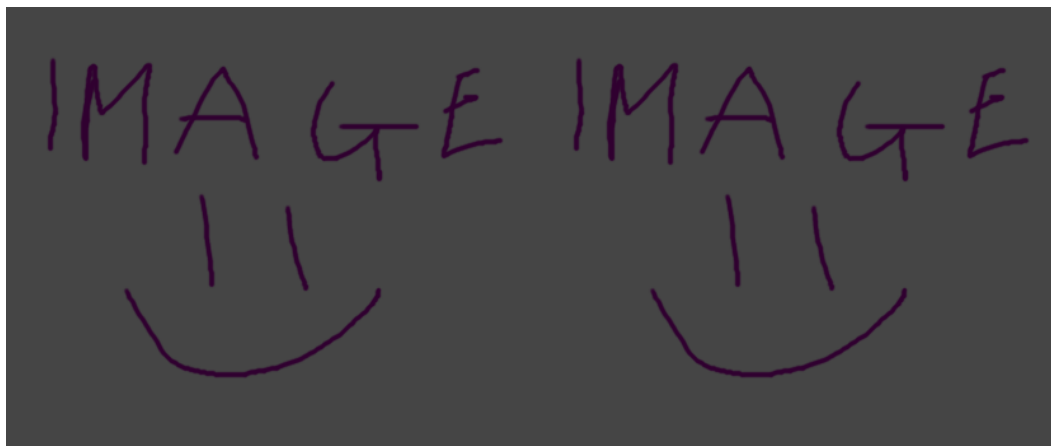
You can insert image, for example see image [1](#).

### 6.1 image matrix

In image [2](#) you can find an example of how to combine different images into one in latex.

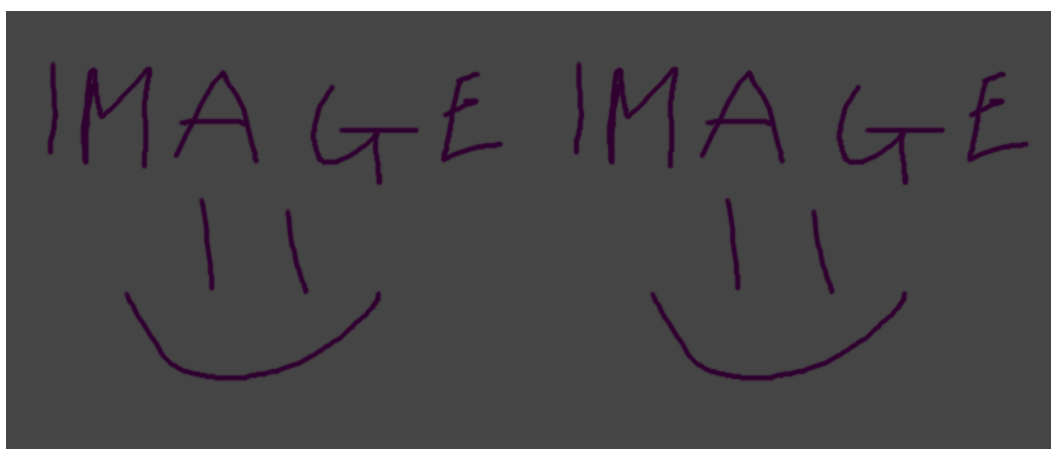


Figure 1: Example image.



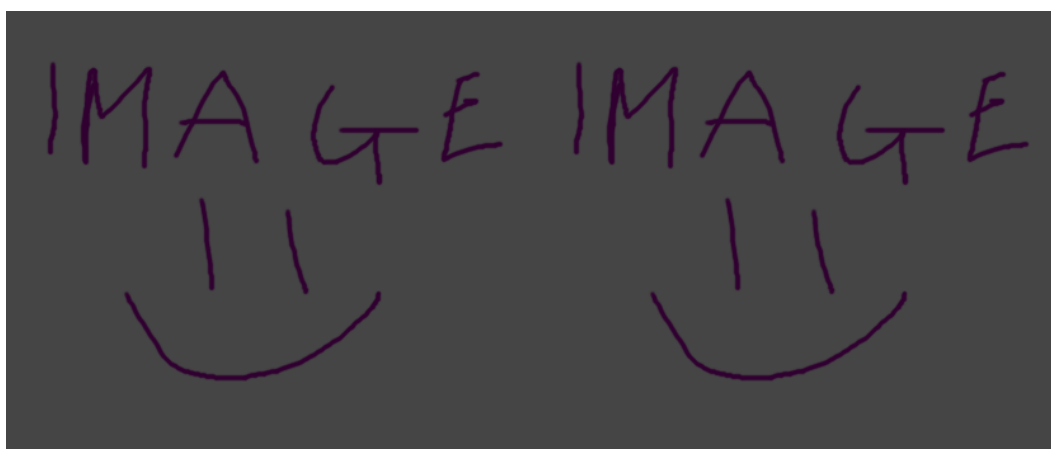
(a) Case 1.

(b) Case 2.



(c) Case 3.

(d) Case 4.



(e) Case 5.

(f) Case 6.

Figure 2: Combine more pictures into one.