How to write in org-mode and export to pdf

simple template

Gene Ting-Chun Kao

2021-08-23

Section title

This is a placeholder for writing contents

Image

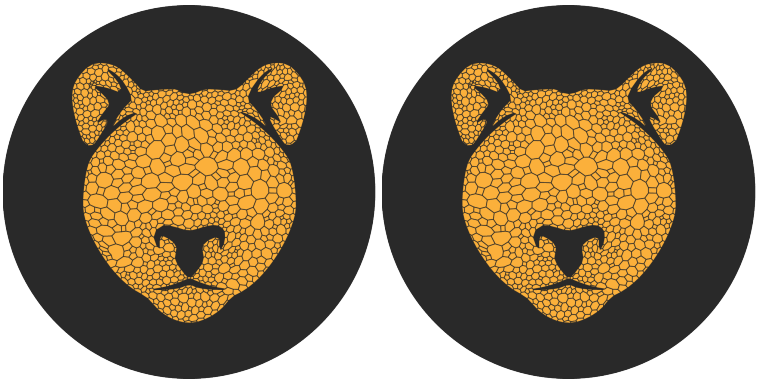
This is an how we can refer to an image, see figure 1.

Figure 1: Leopard icon

There are other ways of showing sub-images and display sub-captions like using in latex, see figure 2

Table

Author	Email	Institution-ID
Gene Ting-Chun Kao	your.email@email.edu	1
Your name		2
another name		3



(a) label 1 (b) label 2

Figure 2: figures with captions

Section title

Mathematics in latex

Check equation 1.

$$f(x) = s_0 = \frac{\sum_i n_i^T (x - x_i)\Phi_i(x)}{\sum_i \Phi_i(x)} \tag{1}$$

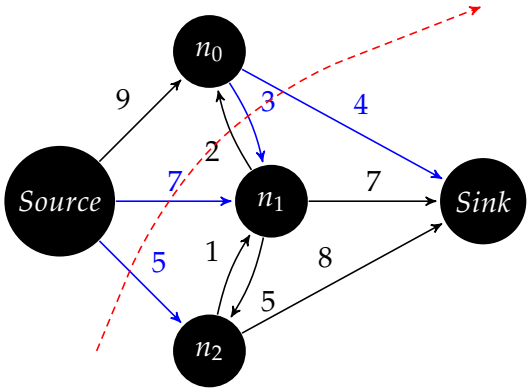
To have a set of equations and to align them:

$$\begin{aligned} \max \quad & \mathbf{c}^T\mathbf{x} \\ s.t. \quad & \mathbf{A}\mathbf{x} \leq \mathbf{b} \\ & \mathbf{x} \geq \mathbf{0} \end{aligned} \tag{2}$$

Graph

Check out the graph in figure 3.

Figure 3: Max flow min cut, max flow = 19



Algorithm

Algorithm 1 How to write algorithms

Data: Initial bounding-box Q_0 for Θ, $QBest = Q_0$, $delta = 3$, stack $\Omega = \{Q_0\}$
Result: Optimal $Q^* = QBest \in \Omega$
while $U_k - L_k > 1$ **do**
  Pop $Q_k \in \Omega$
  Prune Ω *if current node is impossible solution node*
  Compare L_k *from* Q_k *and* $QBest$
  if $Q_k.L_k > QBest.L_k$ **then**
    $QBest = Q_k$
  end
  Split Q *into* Q_I *and* Q_{II}
  Find best condidate from Q_I *and* Q_{II} *and add them to stack* Ω
end

Flowchart

This flowchart in Fig. 4 is modified from this latex code.

Citation

This is how we can cite paper [1]

References

[1] Gene TC Kao, Axel Körner, Daniel Sonntag, Long Nguyen, Achim Menges, and Jan Knippers. Assembly-aware design of masonry shell structures: a computational approach. In *Proceedings of IASS Annual Symposia*, volume 2017, pages 1–10. International Association for Shell and Spatial Structures (IASS), 2017.

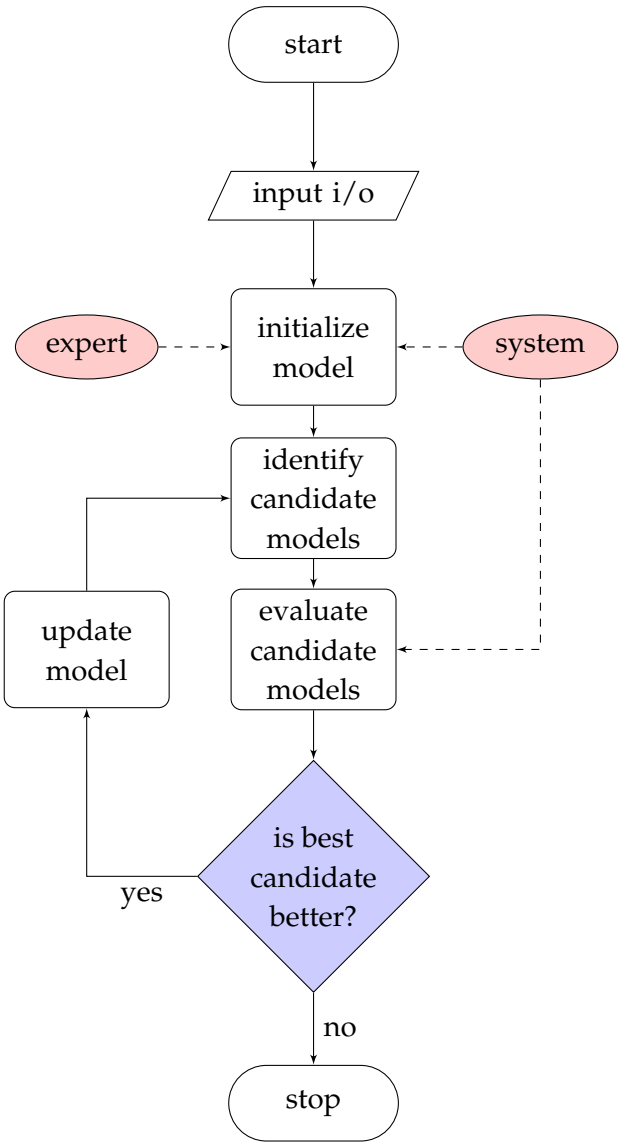


Figure 4: This is my flow chart