Title

Author* Author2†
email1 email2

Contents

1 Essential

\todo

\marginpar

\mcomment

$$\binom{n}{k} = \frac{n!}{k!(n-k)!} \tag{1}$$

$$= \frac{1}{2\pi i} \oint_\Gamma \frac{(1+z)^n}{z^{k+1}}\,\mathrm{d}z \tag{2}$$

Table 1: Caption

A	B*
a	b
c	d
e	f
g	h

TensorFlow† (Abadi et al., 2016), Abadi et al. (2016).
Section 1 on a page 1, table 1, figure 1, equations (1) and (2).

*thanks
†thanks
*footnotemark–footnotetext
†footnote

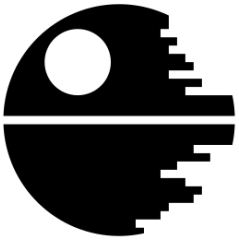


Figure 1: Caption

2 Other CO_2

Subfigures

Proof

The proof is easy and is left to a reader. □

Test math

$$\left\langle \frac{\Psi}{1} \right| \left| \frac{\Psi}{1} \right\rangle \left\langle \frac{\Psi}{1} \middle| \frac{\Psi}{1} \right\rangle \left\langle n \middle| \prod_k U_k \middle| \frac{x}{1} \right\rangle \left\langle n \middle| \prod_k U_k \middle| \frac{x}{1} \right\rangle$$

$$\mathrm{Normal}(\mathrm{x} \mid \mu, \sigma^2)$$

$$\mathrm{Normal}(\mathrm{x} \mid \mu, \sigma^2)$$

$$\mathrm{Normal}(\mathrm{x} \mid \mu, \sigma^2)$$

$$\mathcal{N}(\mathrm{x} \mid \mu, \sigma^2)$$

$$\sum_{n=-\infty}^{+\infty} f(x) \geqslant\geqslant\geq \operatorname{med} X$$

$$\varepsilon + \mathrm{e}^{-\frac{(x-2)^2}{2\sigma^2}} + \mathrm{const}$$

$$\dot{a}\varepsilon\phi\varphi$$

$$\not\propto\not\subset\notin\notin$$

$$\equiv\doteq\approx\subset\supset\ni|||\neq\neq$$

$$\operatorname{Tr} A = \operatorname{tr} A = \operatorname{var} X = \mathrm{KL}(P \parallel Q) = D_{\mathrm{KL}}(P \parallel Q)$$

$$\star * \circ \bullet \oplus \otimes \odot \dagger \ddagger\dagger\ddagger$$

$$\bigoplus\bigotimes\bigodot\bigcup\bigcap$$

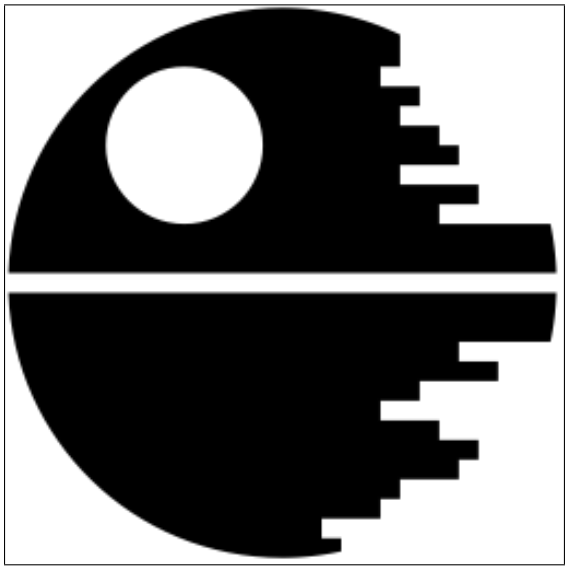
$$\leftarrow\leftarrow\rightarrow\rightarrow\mapsto\Leftarrow\Rightarrow\Longleftrightarrow \iff \overrightarrow{AB} \rightrightarrows$$

$$[][]\{\}\langle\rangle||||||\llcorner\lrcorner|||$$

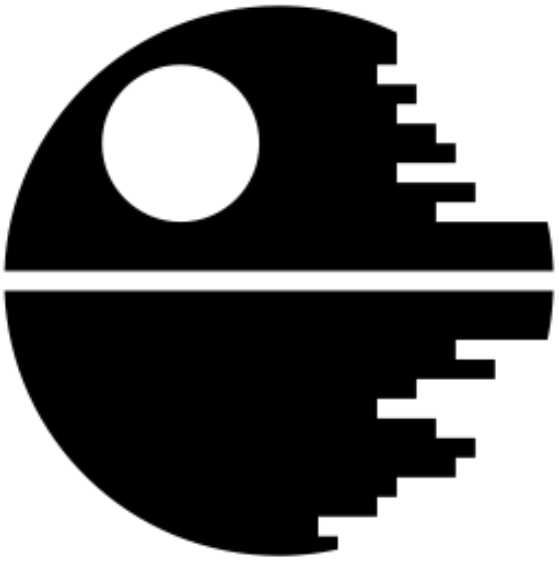
$$\ell\emptyset \operatorname{Re} \operatorname{Im} \perp\top\angle\square$$

$$\sim\approx\backsim\propto\doteq\fallingdotseq$$

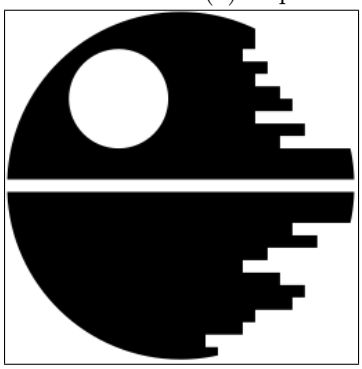
$$\hbar\square\blacksquare\bigstar\varnothing$$



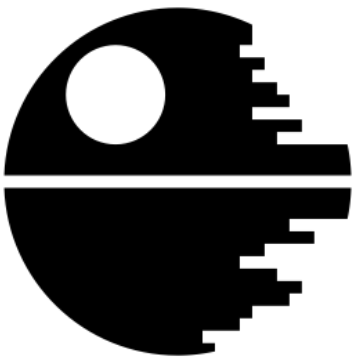
(a) Caption 1



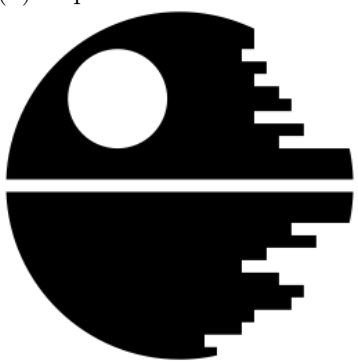
(b) Caption 2



(c) Caption 3



(d) Caption 4



(e) Caption 5

Figure 2: The caption. *Top*: top. *Bottom*: bottom.

$$\left\| \begin{matrix} 1 & 2 \\ 3 & 4 \end{matrix} \right\| = \left| \oint_A^B f(z)\,\mathrm{d}z \right| = \frac{\mathrm{d}u}{\mathrm{d}x} = \mathcal{F}\mathfrak{F} = \frac{\sum a_{ij}}{\sum b_{ij_{\text{big long thing}}}} = \sum a_k \tag{3}$$

$$= \frac{\mathbb{P}\left\{ \dfrac{X}{\mathbb{E}X} \leqslant \varepsilon \right\}}{\Pr\left\{ \text{Poisson}(\lambda = 3) > 5 \right\}} = \frac{\partial}{\partial x} \cdot \frac{\partial f}{\partial x} \cdot \frac{\partial^2 f}{\partial x^2} = \left. \frac{\partial}{\partial x} \frac{x^2+1}{x^3+1} \right|_{x=0} = \left. \frac{\mathrm{d}}{\mathrm{d}x} \frac{x^2+1}{x^3+1} \right|_{x=0} \tag{4}$$

$$\overline{a}\ \ A \overset{*}{\approx} B \quad \sum_{\substack{0<i<n \\ j \neq i}} f(i) \quad \sqrt[3]{P(x) + Q(x)} \quad \frac{3}{8} \frac{\frac{3}{8}}{\frac{3}{8}} 3/8 \quad x = x \quad x = x \tag{5}$$

Math fonts

$\mathrm{ABCDEFabcdef}$	(mathrm)
$\mathbf{ABCDEFabcdef}$	(mathbf)
$\mathsf{ABCDEFabcdef}$	(mathsf)
$\mathtt{ABCDEFabcdef}$	(mathtt)
$\mathit{ABCDEFabcdef}$	(mathit)
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Text fonts

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General formatting

- x y z
- “quote”
- Ph. D.
- Ph. D.
- Ph. D.
- A. B
- A. B
- `yo␣wazup`

3 Bibliography

Abadi, M., Barham, P., Chen, J., Chen, Z., Davis, A., Dean, J., ... Zheng, X. (2016). Tensorflow: A system for large-scale machine learning. In *12th USENIX symposium on operating systems design and implementation (OSDI 16)* (pp. 265–283). Savannah, GA: USENIX Association. Retrieved from https://www.usenix.org/conference/osdi16/technical-sessions/presentation/abadi