Title

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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	$\mathbb{R}$[1]
a	b
c	d
e	f
g	h

*thanks

†thanks

[1]footnotemark–footnotetext

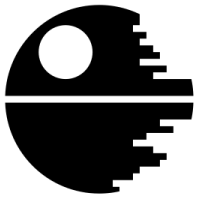
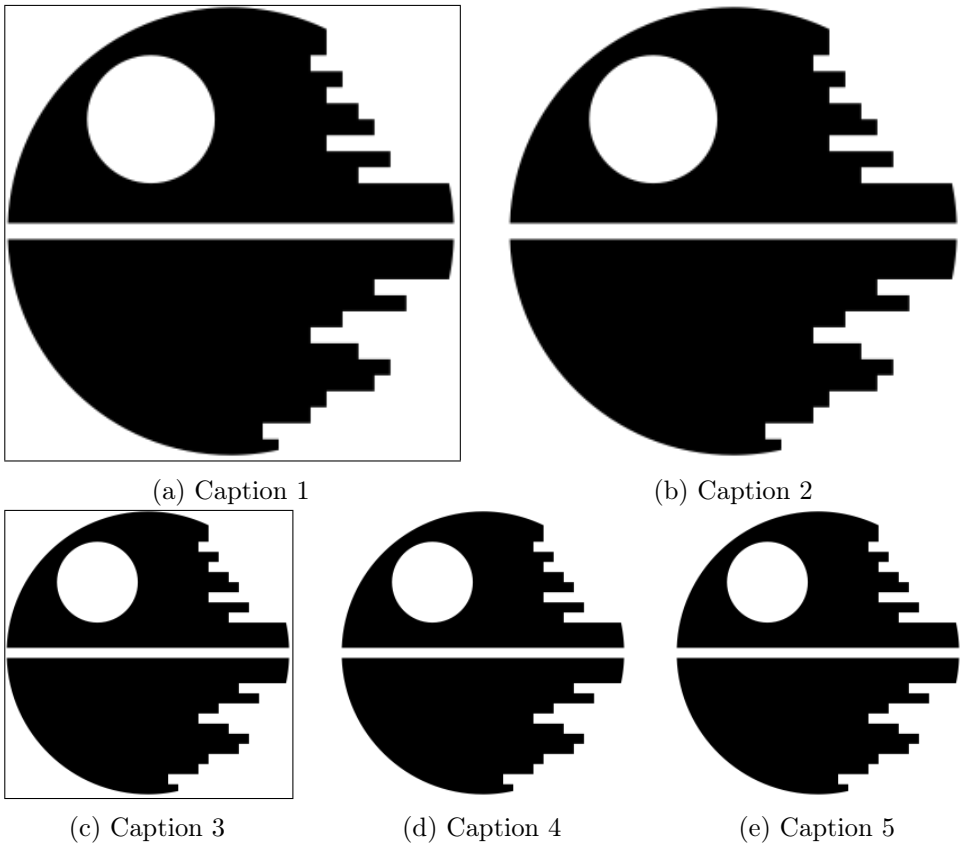


Figure 1: Caption

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

2 Other CO_2

Subfigures



(a) Caption 1

(b) Caption 2

(c) Caption 3

(d) Caption 4

(e) Caption 5

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

[2]footnote

Proof

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

Test math

$$\sum_{\mu}\ \sum\nolimits_{\mu}\ \mathbb{R}^{n\times m}\ \left\langle\frac{\Psi}{1}\right|\left|\frac{\Psi}{1}\right\rangle\left\langle\frac{\Psi}{1}\middle|\frac{\Psi}{1}\right\rangle\left\langle n\middle|\prod_{k}U_k\middle|\frac{x}{1}\right\rangle\left\langle n\middle|\prod_{k}U_k\middle|\frac{x}{1}\right\rangle$$

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

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

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

$$Y\sim \mathrm{U}[0,1]\propto\propto \operatorname{Beta}(a,b\,;\,c,d)\,\Gamma\left(x\,\middle|\,\alpha+\sum_{k=0}^{n}\theta_k\right)\mathcal{N}(\mathrm{x}\mid\mu,\sigma^2)$$

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

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

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

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

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

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

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

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

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

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

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

$$\sim\!\!\approx\backsim\propto\doteqdot\ddot{=}\dddot{=}$$

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

$$\left\|\begin{matrix}1&2\\3&4\end{matrix}\right\|=\left|\oint_A^B f(z)\,\mathrm{d}z\right|=\frac{\mathrm{d}u}{\mathrm{d}x}=\mathcal{F}\mathfrak{F}=\frac{\sum a_{ij}}{\sum b_{ij}}=\sum_{\text{big long thing}}a_k=\frac{\mathbb{P}\left\{\dfrac{X}{\mathbb{E}X}\leqslant\varepsilon\right\}}{\Pr\{\text{Poisson}(\lambda=3)>5\}}\tag{3}$$

$$\partial\cdot\frac{\partial}{\partial x}\cdot\frac{\partial f}{\partial x}\cdot\frac{\partial^3 f}{\partial x^3}\cdot\frac{\partial}{\partial x}\frac{x^2+1}{x^3+1}\bigg|_{x=0}=\mathrm{d}\cdot\frac{\mathrm{d}}{\mathrm{d}x}\cdot\frac{\mathrm{d}f}{\mathrm{d}x}\cdot\frac{\mathrm{d}^3 f}{\mathrm{d}x^3}\cdot\frac{\mathrm{d}}{\mathrm{d}x}\frac{x^2+1}{x^3+1}\bigg|_{x=0}\tag{4}$$

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

Math fonts

ABCDEFabcdef	(mathrm)
ABCDEFabcdef	(mathbf)
ABCDEFabcdef	(mathsf)
`ABCDEFabcdef`	(mathtt)
$ABCDEFabcdef$	(mathit)
$\mathcal{ABCDEF}\dashv\lfloor\rfloor\lceil\rceil\{$	(mathcal)
$ABCDEFabcdef$	(mathnormal)
$\boldsymbol{ABCabc\Gamma\Omega\Xi\gamma\omega\xi}$	(boldsymbol)
$\mathscr{ABCDEF}$	(mathscr)
$\mathfrak{ABCDEFabcdef}$	(mathfrak)
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$\mathbb{ABCDEFabcdef12}$	(mathbbm)

Text fonts

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ABCDEFabcdef *ABCDEFabcdef*

General formatting

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

Semantic

$$\text{RMSProp Adam } \texttt{pmatrix} \tag{6}$$

$$a\ \mathbf{x}\ \boldsymbol{\alpha}\ \boldsymbol{A}\ \mathbf{A} \tag{7}$$

$$\text{NOT gate } \mathbf{CNOT} \text{ gate} \tag{8}$$

$$\mathcal{X}\ \mathcal{Y}\ \mathcal{D} \tag{9}$$

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