

Some L^AT_EX utils

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This document demos some things I've collected for nicer texing. For instance, underlines like this example.

Also, citations with auto links, like this: check out the link in the references when I cite, e.g. MacKay (2003). Links are auto-generated from the `url`, `doi`, etc. fields.

Simple titled box

For a box like this, use the `kast` environment.

Information theory operators, for things like this:

$$I(X; Y) = D_{\text{KL}}(P_{(X,Y)} \parallel P_X \otimes P_Y) = \mathbb{E}_{p_{(X,Y)}} \left[\log \frac{p_{(X,Y)}(x,y)}{p_X(x)p_Y(y)} \right] \quad (1)$$

$$= H(X) - H(X \mid Y) \quad (2)$$

$$= \int_{\mathcal{X} \times \mathcal{Y}} \log \left(\frac{dP_X \otimes P_Y}{dP_{(X,Y)}} \right) dP_X \otimes P_Y \quad (3)$$

References

MacKay, David J. C. (2003). *Information theory, inference and learning algorithms*. Cambridge university press (cit. on p. 1).