

# References and Shannon's original papers

## Shannon's originals

Most of the contents of this course are based on (a modern understanding of) the contents of the two following papers by Claude Shannon:

**A mathematical theory of communication** - the original paper by Claude Shannon, published in 1948 in *The Bell System Technical Journal*. Check its [wikipedia entry](#).

**Communication Theory of Secrecy Systems** is a paper published in 1949 by **Claude Shannon** discussing **cryptography** from the viewpoint of **information theory**. Check its [wikipedia entry](#).

## More recent references

For more contemporary readings of these papers, have a look at:

- Course lecture notes (work-in-progress) by Yfke Dulek and Christian Schaffner, available on <https://github.com/cschaffner/InformationTheory/raw/master/Script/InfTheory3.pdf>
- Good reference: [CT] Thomas M. Cover, Joy A. Thomas. 'Elements of information theory': <http://onlinelibrary.wiley.com/book/10.1002/0471200611>, 2nd Edition. New York: Wiley-Interscience, 2006. ISBN 0-471-24195-4.
- Good reference: [MacKay] David J. C. MacKay. 'Information Theory, Inference, and Learning Algorithms': <http://www.inference.phy.cam.ac.uk/mackay/itila/book.html>. Cambridge University Press, 2003. ISBN 0-521-64298-1