The Cargo Cult of The South Seas (Abridged!)

Dave Evans 2018/04/05



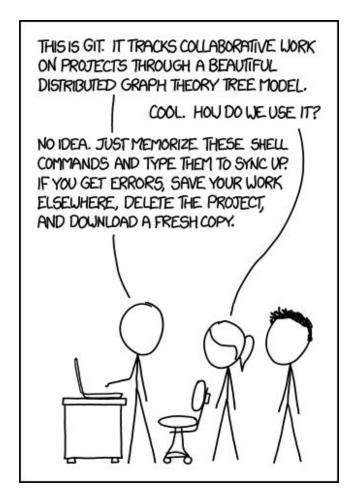
https://en.wikipedia.org/wiki/History_of_Oceania#/media/File:NZ_3rd_Division_(USMC_photo).jpg







Cargo Cult Programming



https://xkcd.com/1597/

Cargo Cult Project Management

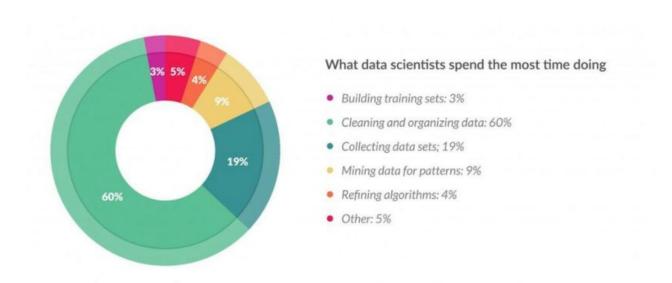






Cargo Cult Science

Data preparation accounts for about 80% of the work of data scientists



https://www.forbes.com/sites/gilpress/2016/03/23/data-preparation-most-time-c onsuming-least-enjoyable-data-science-task-survey-says/#39ad7c8b6f63

Cargo Cult Science

The Apparent		
Prep work		

Getting the answer

Science

The Apparent

Prep work		Checking it's right
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Getting an answer

Science

Checking it's right

The first principle is that you must not fool yourself—and you are the easiest person to fool.

So you have to be very careful about that.

After you've not fooled yourself, it's easy not to fool other scientists. You just have to be honest in a conventional way after that.

Richard P. Feynman (1974)

Summary

- 1. Science is a systematic method to avoid fooling ourselves that has been developed over thousands of years. To benefit from the method you must understand how it works, beyond specific tools used by scientists.
- 2. Good science tests models of reality. Make sure you know what your model is, and what you expect to happen if it's true or not.



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