

SHARE Open source software is indeed based on modularity and abstraction

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Marta Sales-Pardo mentioned the importance of being modular published in Science (1). Before ecologists discovered the importance of being modular, software scientists/engineers have discovered the importance of being modular. With the progress of software engineering, modularity and abstraction in software development becomes a common sense for achieving higher reusability with being more resilient against input/output/process interactions. In other words, software with modularity and abstraction is more reliable with less bugs. Open source software is a typical example based on the concept of modularity and abstraction. For example, deep learning frameworks including keras, chainer, and pytorch are based on open source software with modularity and abstract. The frameworks with modularity and abstraction enable us to easily describe/build the target machine learning model.

References:

1. Marta Sales-Pardo, The importance of being modular, Science, 14 Jul 2017: Vol. 357, Issue 6347, pp. 128-129

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