EDITORIAL

One thousand simple rules

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What began as a one-off in 2005 as Ten Simple Rules for Getting Published [1] has, in thirteen
years, now multiplied a hundredfold to become One Thousand Simple Rules for many aspects
of one’s professional development and led to Quick Tips in the journal’s Education section.
This milestone of a thousand rules has been reached thanks to the unselfish work of all stake-
holders—authors, editors, reviewers, and readers. Let’s face it, writing, editing or reviewing a
Ten Simple Rules (TSR) article is not the same as a publication that advances a scientific field.
What it is going to get you is the satisfaction of knowing you have passed on a part of your
experience in a form that is easily understood and acted upon by those following in your foot-
steps and hence have a very different kind of positive impact on science. Thank you. On the
other hand, as a reader the TSRs might contribute in some small way to you getting tenure, or
whatever else you care about in your professional life.

Insight for impactful publications. Thank you @PLOSCompBiol, this is great for my students
as they start writing!

@jkellogg916

These are our words. In the summer of 2018 PLOS sent out a survey to both the authors
and readers of TSRs to solicit your thoughts on the series. A summary of some of your words
is presented in Table 1 and Table 2.

The story of how the TSRs started was outlined in that first article [1]. Suffice it to say here
that the articles proved then, as now, a succinct and easily digestible piece of advice. Qualitative
measures of success of the TSRs appear as framed versions on the walls in labs, or in the case of
one of us (PEB) a stand in the corridor outside the lab which contained the collection of TSRs
which periodically needed to be replenished. The fact that the stand was located near the bath-
room and was eventually stolen will be left unexplored. The definitive qualitative measure of
success came with the “Ten Simple Rules for Writing Ten Simple Rules” [2].

Table 1. What readers are saying about TSR that influenced them in their career.

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Table 1. What readers are saying about TSR that influenced them in their career.

"It is difficult to choose one particular article as a favorite. I would like to point out that, as I progressed from being a Master's student doing research to a more experienced graduate student nearing graduation, a different set of 10SR articles have guided/influenced me." Sarvesh Nikumbh, Graduate student

"How to write a review, by M Pautasso. It changed my approach to writing reviews." Anonymous, Academic faculty

"Ten Simple Rules for Reproducible Computational Research, and other articles related to computational biology, programming, etc. They really helped in organizing my projects and code more efficiently." Endre Sebestyén, Postdoc

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A more quantitative measure of success comes from the growth of the series (Fig 1) and the article level metrics (ALMs) that PLOS keeps on each article. As of October 2018, there have been a combined total of 8.3 million views and downloads of the TSRs from the PLOS and PubMed-Central (PMC) Websites. Twelve articles each have over 100,000 views and downloads with “Ten Simple Rules for Writing a Literature Review” [3] topping the list with a staggering 1.1 million combined views and downloads. While not consistently translated, various articles have been made available in at least Spanish, Japanese, Russian, Norwegian, Chinese, and Farsi.

I’m addicted to Ten simple rules in @PLOSCompBiol! #reading how to making research software bulletproof

@TivadarDanka

It’s hard to capture the breadth of what has been covered in these one thousand rules (Fig 2). Perhaps the best way is with Ten Rules, well actually ten ways to subclass the one hundred articles. Those divisions are:
1. Self study/learning habits
2. Scientific communication
3. Career development and choices
4. Event planning
5. Education and mentoring
6. Using technology
7. Programming and software management
8. Service
9. Collaboration from local to international
10. Practicing more disciplined and organized science

With this level of coverage, has the series run its course? Is there nothing new to say? A question we have asked at PLOS a number of times only to have it answered by a new and novel submission. Certainly with one thousand rules novelty becomes an issue. Then again, in just reading responses to the reader survey which asked for novel TSR suggestions new ideas emerged—unique features of working for an NGO such as a non-profit foundation; reducing your carbon footprint while doing research; lab management; ensuring a work-life balance—and so on. Moreover, technologies, protocols, expectations, how we conduct science—think social media—are changing rapidly which calls for topics to be refreshed. In short, there would seem to be no end in sight.

There are also the questions of scope and form of dissemination. Many of the rules are not confined to computational biology and are clearly read by those outside our field. Since 2005 social media has become mainstream and while articles get tweeted are they more appropriate as blog postings? For now, we (PLOS and the TSR Editors), based on comments received through the surveys, feel we should keep the series going as is, but as a community journal your ongoing input is critical. What do you think comes next?

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