

# NASA Transform to Open Science (TOPS) Open Science 101

Egon Willighagen 

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## Keywords

Openscience

## Abstract

It was on my radar for some time already, but did not get around to finishing it. But I completed all five modules of the NASA Transform to Open Science (TOPS) Open Science 101 (doi:10.5281/zenodo.10161527). This Open Science 101 consists of several modules, starting with The Ethos of Open Science, via Open Tools and Resources, Open Data, and Open Code, to Open Results.

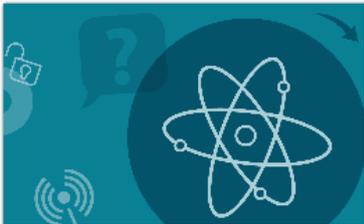
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## chem-bla-ics

It was on my radar for some time already, but did not get around to finishing it. But I completed all five modules of the [NASA Transform to Open Science \(TOPS\) Open Science 101](#) (doi:10.5281/zenodo.10161527). This Open Science 101 consists of several modules, starting with *The Ethos of Open Science*, via *Open Tools and Resources*, *Open Data*, and *Open Code*, to *Open Results*.

My Modules



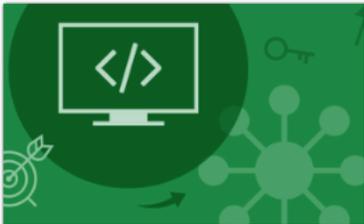
**OS101 Module 5: Open Results**

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RESUME MODULE

**Congratulations! Your completion certificate is ready.**

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**Fast Track Module 4: Open Code**

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RESUME MODULE

**Congratulations! Your completion certificate is ready.**

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**OS101 Module 3: Open Data**

NASA TOPS

RESUME MODULE

Now, since I have been practising aspects of science for almost 25 years, I have to admit I was nervous doing this. That probably explains why it took me so long to do it. Just going through the material will probably take 4-8 hours, but there was a lot to reflect on. They also link to many additional resources and cite a good bunch of scientific research.

I also like to stress that I like the material very, very much. It is very well designed, covers a lot of aspects, and finds a great balance between depth and coverage. Sure, I had some comments here and there, but it highlights very well what open science really is, what not, and how the open science community is working on reaching the goals, which things work well, and which things need more work.

The material itself is [open and available from GitHub](#).