

The background of the slide is a light blue technical drawing or blueprint. It features various geometric shapes, lines, and hatching, typical of engineering or architectural plans. A pencil and a compass are visible in the upper right corner, resting on the drawing. The overall aesthetic is clean and professional, emphasizing precision and design.

Create a Reproducible Research Environment

Tutorial Introduction

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The people behind all of this



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Do not forget to...

Download and install:

Docker: <https://docs.docker.com/install/>

Conda:

<https://docs.conda.io/en/latest/miniconda.html>

Register:

Github: <https://www.github.com>

DockerHub: <https://hub.docker.com/>

What is Reproducible Research?

What are possible solutions?

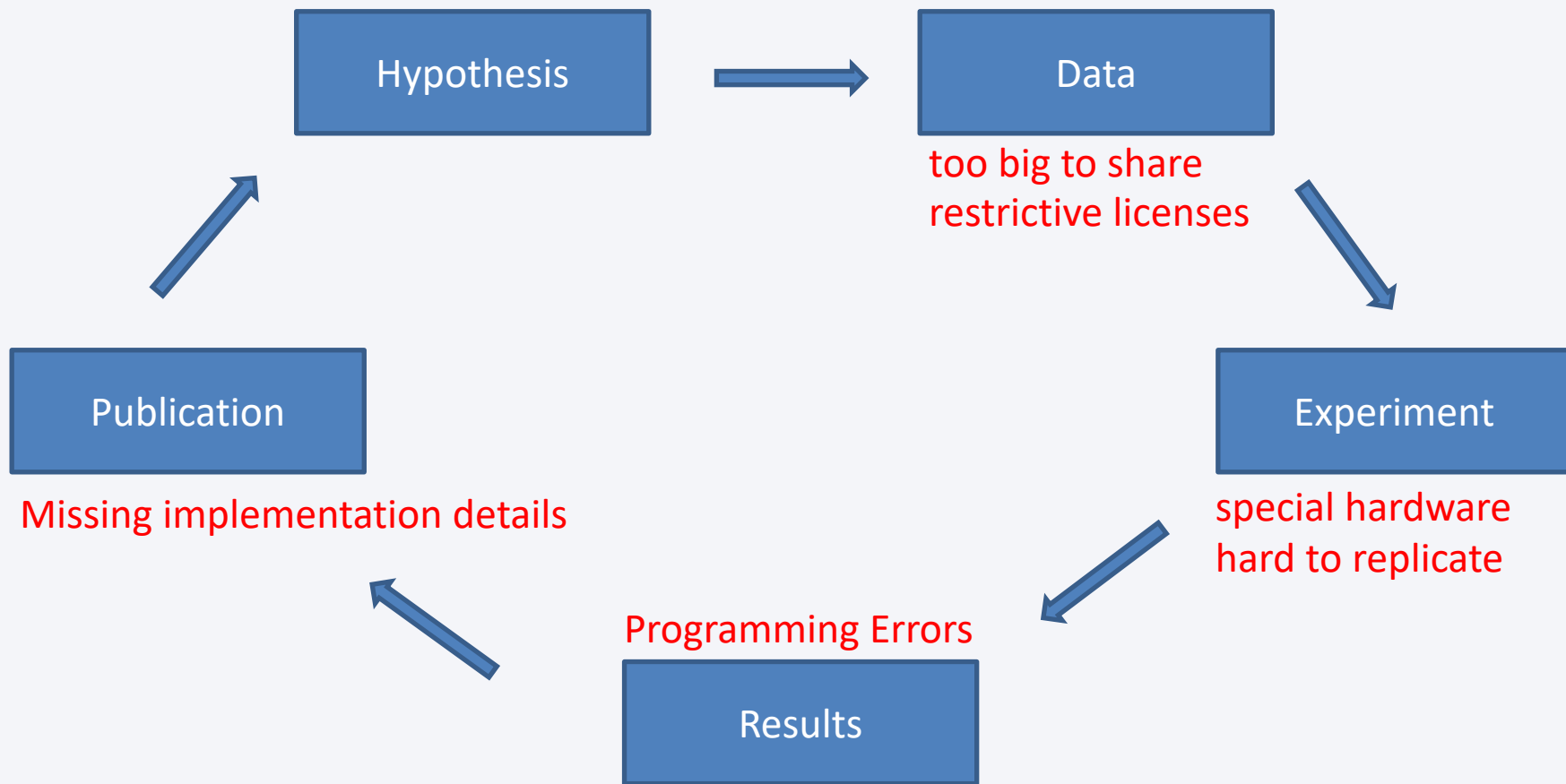
What are we going to do in this Tutorial?

- Share your Code
- Share your Environment
- Share your System
- Share your Service

Structure of a Part

- Theoretical
 - Problem Statement
 - History
 - Different Software
- Practical
 - Create an example
 - Use this example

The traditional research cycle



The Definition of Reproducible Research

Reproducible Research (RR) is the practice of **distributing**, along with a research publication, **all data, software source code, and tools required to reproduce the results** discussed in the publication.
(orgmode.org)

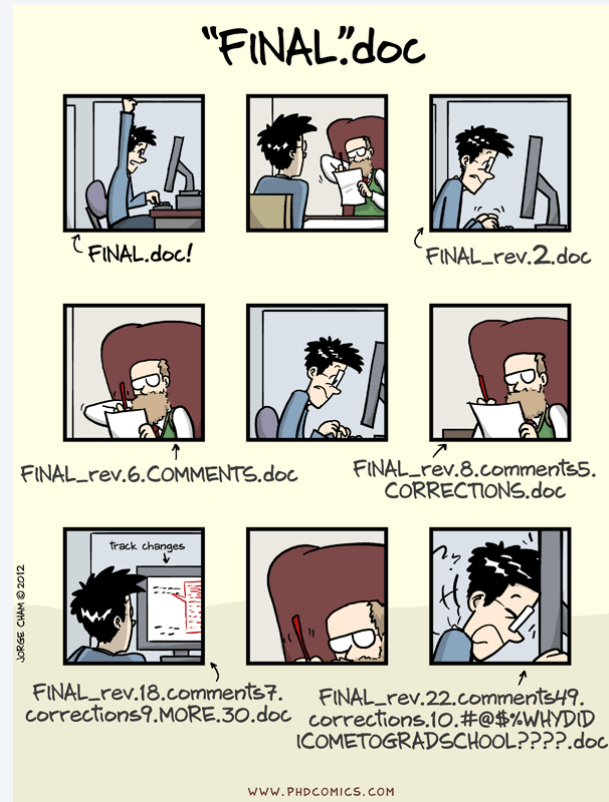
Approaches to Reproducible Research

Document every step of the way

Automate

Don't do things by hand

Version Controlling



<http://phdcomics.com/comics.php?f=1531>