

# Introduction to open-sourcing data

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[https://www.youtube.com/watch?v=66oNv\\_DJuPc](https://www.youtube.com/watch?v=66oNv_DJuPc)

Brief introduction into open-sourcing your data:

- ▶ Store your data in a simple format

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- ▶ Provide documentation
- ▶ Beware of privacy

Store your data in a simple format

# Store your data in a simple format

In this case .csv should be good.

# Provide documentation

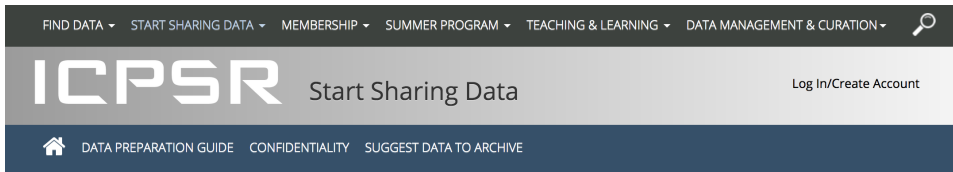


# Provide documentation

What would another researcher want to know?

- ▶ How and when was this data collected?
- ▶ What do the different variables describe?

# Provide documentation (more details)

The image shows the top navigation bar and header of the ICPSR website. The top bar is dark grey with white text for navigation: FIND DATA, START SHARING DATA, MEMBERSHIP, SUMMER PROGRAM, TEACHING & LEARNING, and DATA MANAGEMENT & CURATION, each followed by a dropdown arrow. A magnifying glass icon is on the right. Below this is a light grey header with the ICPSR logo on the left, the text 'Start Sharing Data' in the center, and a 'Log In/Create Account' link on the right. A dark blue bar below the header contains a home icon and the text 'DATA PREPARATION GUIDE', 'CONFIDENTIALITY', and 'SUGGEST DATA TO ARCHIVE'.

## Data Preparation Guide

### Introduction

#### 1. Proposal Development and

## Guide to Social Science Data Preparation and Archiving Phase 3: Data Collection and File Creation

### Best Practices in Creating Metadata

<https://www.icpsr.umich.edu/icpsrweb/content/deposit/guide/chapter3docs.html>

Beware of privacy

# Beware of privacy

## Remove personally identifying information

### NIST definition [\[ edit \]](#)

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The following data, often used for the express purpose of distinguishing individual identity, clearly classify as PII under the definition used by the [National Institute of Standards and Technology](#) (described in detail below):<sup>[15]</sup>

- [Full name](#) (if not common)
- [Face](#) (sometimes)
- [Home address](#)
- [Email address](#) (if private from an association/club membership, etc.)
- [National identification number](#) (e.g., [Social Security number](#) in the U.S.)
- [Passport number](#)
- [Vehicle registration plate number](#)
- [Driver's license number](#)
- [Face, fingerprints, or handwriting](#)
- [Credit card numbers](#)
- [Digital identity](#)
- [Date of birth](#)
- [Birthplace](#)
- [Genetic information](#)
- [Telephone number](#)
- [Login name](#), [screen name](#), [nickname](#), or [handle](#)

[https://en.wikipedia.org/wiki/Personally\\_identifiable\\_information](https://en.wikipedia.org/wiki/Personally_identifiable_information)

# Privacy and Security

## Myths and Fallacies of “Personally Identifiable Information”

<http://dx.doi.org/10.1145/1743546.1743558>

In this case, we recommend:

- ▶ Removing PII (name, email address, etc)
- ▶ Removing TurkID
- ▶ Coarsen age, geography, and race/ethnicity
- ▶ Coarsen timestamp
- ▶ Anything else?

For more on coarsening, see this code:

[https://github.com/compsocialscience/summer-institute/blob/master/2018/materials/day4-surveys/mturk\\_data\\_cleaning.Rmd](https://github.com/compsocialscience/summer-institute/blob/master/2018/materials/day4-surveys/mturk_data_cleaning.Rmd)

For more about de-identification, see *Bit by Bit*, Sec 6.6.2 “Understanding and managing informational risk”

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- ▶ When: when you publish your paper

## The 5Ws of data release:

- ▶ Who: You
- ▶ What: make your data available to other researchers in a responsible way
- ▶ Where: Dataverse, ICPSR, or an archival data repository (your laptop is not an archival data repository)
- ▶ When: when you publish your paper
- ▶ Why: It is good for you and it is good for the world

In this case, you should archive your data here:

<https://github.com/compsocialscience/summer-institute/tree/master/2018/materials/day4-surveys/datasets>

When you start your projects next week

- ▶ plan to release your data
- ▶ plan to release your code



# Questions