

Perusal Quick-Start Guide

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What is Perusall?

Perusall is a browser-based software platform for interactive learning. Students help each other learn by collectively annotating readings in threads, responding to each other's comments, and interacting. Perusall can bring the interactivity of a small seminar to a larger course.

Why are we using Perusall?

Some of our Data Science Workshops are being taught using a “flipped classroom” model — this is where lecture-based material is delivered online, asynchronously, so that it can be digested at your own pace, which provides more time for Q&A discussion during in-class time.

Prior to our Zoom-based one-hour Q&A session, there will be a **two week self-study period** during which you can work through the workshop materials at your own pace. We are using Perusall as a means to facilitate greater engagement with the workshop materials during this self-study period. With Perusall, you will be able to post questions and comments about parts of the materials you do not understand or problems you encounter. Instructors can answer your questions and comments, but you will also have the opportunity to reply to questions and comments from other participants. In this way, Perusall facilitates peer-to-peer and peer-to-instructor learning.

Your successful completion of the workshop will be based on making a contribution, via questions and comments, during this self-study period.

How to use Perusall?

You should have received an email asking you to create an account at <https://perusall.com/>. You should also have received a **course code** via email. If you have not, please contact your workshop administrator. Once your Perusall account is created, enter the course code and you will be able to view the course materials.

During the two week self-study period, you can highlight sections of the workshop materials you wish to ask questions about, add comments, as well as respond to questions and comments from other participants. The window for submitting questions will close 24 hours prior to the Zoom Q&A session.

0.1 My courses

Once you have logged into Perusall and entered your course code, you should see the name of the workshop you have registered for listed under **My courses** (highlighted in red in the image below).

The screenshot shows the Perusall web application interface. At the top, there is a navigation bar with the Perusall logo, a 'Help' link, and a user profile icon labeled 'TS'. Below the navigation bar are three main action buttons: 'Enroll in course' (with a key icon), 'Create study group' (with a speech bubble icon), and 'My purchases' (with a book icon). Each button has a brief description of its function. Below these buttons is a section titled 'My courses' with a 'Sort by: Name, A-Z' dropdown menu. Under 'My courses', there is a single course listed: 'Data Science Workshops', which is highlighted with a red background. The course details show it 'Starts January 11, 2021 / Ends February 1, 2021'. Below the 'My courses' section is a section titled 'My archived courses', which states: 'You do not yet have any archived courses. Courses are archived automatically when their end date has passed.'

Click on the name of the workshop to proceed.

0.2 Get started

You will now enter the **Course home** page, under the **Get started** tab. This page provides some basic information about Perusall. At the top of the page, there are two other tabs — **Library** and **Assignments**. Click on the latter (highlighted in red in the image below).

Perusall® > Data Science Workshops > Get started

Get started Library Assignments

Perusall helps you **learn faster** by collaboratively annotating the readings and communicating with your classmates. Collaboration gets you help whenever you need it, makes learning more fun, enables you to help others (which research shows is also a great way for you to learn), and helps the instructor make class better by emphasizing information that you need.

If you have a question or information to share about a passage in the readings, highlight the text and type in a comment as an annotation. You can also respond to a classmate's annotation in threads (Facebook style) in real time or upvote questions you find helpful. Good annotations contribute to the class by stimulating discussion, explaining your thought processes, helping others, and drawing attention to good points. If a particular classmate's point is relevant, you can explicitly "mention" them and they will be immediately notified, even if not presently signed on.

Research shows that the following behaviors on Perusall predict higher end-of-semester grades and long term mastery of the subject. Your instructor may use some or all to determine your formal score.

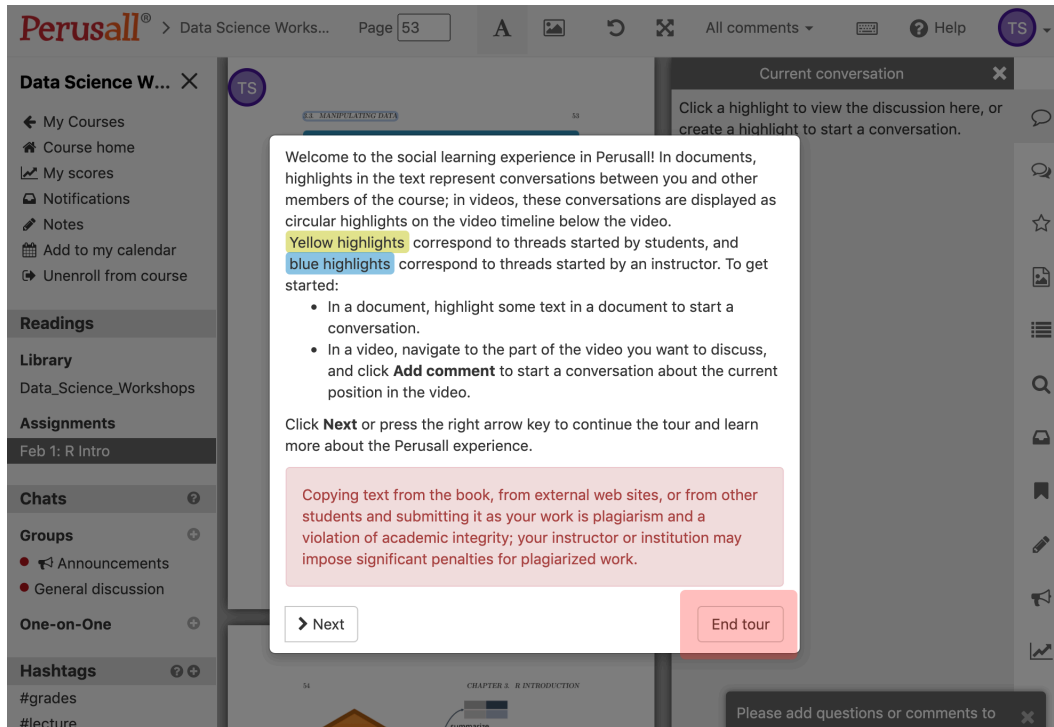
- Contributing thoughtful questions and comments to the class discussion, spread throughout the entire reading (**see some examples**)
- Starting the reading early
- Breaking the reading into chunks (instead of trying to do it all at once)
- Reading all the way to the end of the assigned reading
- Posing thoughtful questions and comments that elicit responses from classmates
- Answering questions from others
- Upvoting thoughtful questions and helpful answers

0.3 Assignments

You will now enter the **Assignments** page. For your workshop, there will be only one assignment. To start working on the assignment, click on the **Work on assignment** button (highlighted in red in the image below).

The screenshot shows the Perusall interface for the 'Data Science Workshops' course. The top navigation bar includes the Perusall logo, the course name, and links to 'Get started', 'Library', and 'Assignments'. The left sidebar contains a 'Data Science W...' dropdown menu with options like 'My Courses', 'Course home', 'My scores', 'Notifications', 'Notes', 'Add to my calendar', and 'Unenroll from course'. Below this are sections for 'Readings', 'Library', 'Assignments', 'Chats', 'Groups', 'One-on-One', and 'Hashtags'. The main content area shows the assignment 'Data_Science_Workshops R Intro' with a due date of 'Mon Feb 1, 2021 12:00 pm EST'. A blue box indicates 'Assignment not yet opened.' and a red box highlights the 'Work on assignment' button.

You will enter a new page and be presented with a popup window of instructions. Once you've read the instructions, click **End tour** in the bottom right of the popup (highlighted in red in the image below).



0.4 Layout

You will now enter a new page where the main screen is divided into a left and right panel. On the left, you can view the workshop materials as a pdf file. You can scroll through the materials as you work on them. On the right, you will see a panel called **Current conversation**, which should be blank.

The screenshot shows the Perusall interface for a course titled "Data Science Works...". The top navigation bar includes the Perusall logo, course name, page number (54), and various icons for navigation and help. The left sidebar contains a menu with options like "My Courses", "Course home", "My scores", "Notifications", "Notes", "Add to my calendar", and "Unenroll from course". Below this are sections for "Readings", "Library", "Assignments", "Chats", "Groups", "One-on-One", and "Hashtags". The central content area displays a diagram of the dplyr workflow (summarize, mutate, select, filter) and a code chunk for filtering data. The right sidebar, titled "Current conversation", contains a prompt to click a highlight to view the discussion or create a highlight to start a conversation. At the bottom of the right sidebar, there is a text input field with the placeholder "Please add questions or comments to the assigned page ranges".

You're now ready to start! You can work through the materials at your own pace.

0.5 Ask a question

As you work through the materials, you may have questions or comments about the content. You can ask a question or make a comment by simply highlighting the part of the text that you'd like to refer to (see highlighted code chunk in left side panel below). Once the text is highlighted, a text window opens in the right side **Current conversation** panel (highlighted in red in the image below). You can type your question here. Your question could be in plain English, or include code.

The screenshot shows the Perusall interface for a Data Science course. The top navigation bar includes the Perusall logo, course name, page number (54), and various icons for search, share, and help. The left sidebar contains navigation links for Data Science Workshops, My Courses, Course home, My scores, Notifications, Notes, Add to my calendar, and Unenroll from course. Below this are sections for Readings, Library (Data_Science_Workshops), Assignments (Feb 1: R Intro), Chats, Groups (Announcements, General discussion), One-on-One, and Hashtags (#grades, #lecture).

The main content area displays a diagram of the dplyr workflow (summarize, mutate, select, filter) and a section titled "3.3.1 Filter, select, & arrange". The text explains how to filter data by year (1992) and name (Alex or Mark). The R code chunk shows the following:

```
# Read in the baby names data (if you haven't already)
baby_names <- read_csv("babynames.csv")

# Filter data, keeping "Alex" and "Mark" in year 1992, record in baby_names_alexmark
# One logical operator to specify the filtering condition
baby_names_alexmark <- filter(baby_names,
  Year == 1992 & (Name == "Alex" | Name == "Mark"))

print(baby_names_alexmark) # explicit printing
```

The output of the code is a tibble with 4 rows and 4 columns: Name, Sex, Count, Year. The data is as follows:

Name	Sex	Count	Year
Alex	Girl	386	1992
Mark	Girl	20	1992
Mark	Boy	8743	1992
Alex	Boy	7348	1992

A red arrow points to the logical operator in the code: `Year == 1992 & (Name == "Alex" | Name == "Mark")`. The chat window on the right shows a question: "Why do we use two equals signs in this code chunk?" and a response: "Not yet submitted: press Enter to submit." The bottom of the chat window has a prompt: "Please add questions or comments to".

Once you have finished typing your question press enter/return. Your question will now be visible to the instructor and other workshop participants. Don't be shy — **there are no stupid questions!!!**

0.6 Answer a question

If you see a comment or question that you can help with, please try to answer it yourself! There will be a text window under the most recent part of the conversation thread, which you can write your reply in (highlighted in red in the image below). This is a great way to learn, since we often learn best by teaching others. Feel free to ask as many additional questions as you want within the same conversation thread.

The screenshot displays the Perusall interface for a Data Science course. The top navigation bar includes the Perusall logo, course name, page number (54), and various utility icons. A left sidebar contains navigation links for My Courses, Course home, My scores, Notifications, Notes, Add to my calendar, and Unenroll from course. Below these are sections for Readings, Library (Data_Science_Workshops), Assignments (Feb 1: R Intro), Chats, Groups (Announcements, General discussion), One-on-One, and Hashtags (#grades, #lecture).

The main content area shows a diagram of the dplyr workflow (summarize, mutate, select, filter) and a section titled "3.3.1 Filter, select, & arrange". The text explains how to filter data by year (1992) and name ("Alex" or "Mark"). Below the text is R code using dplyr to filter the 'babynames' dataset. The code is as follows:

```
# Find in the babynames data if you haven't already
babynames <- read_csv("babynames.csv")

# Filter data, keeping "Alex" and "Mark" in year 1992, record in babynames_alexmark
# Use logical operators to specify the filtering condition
babynames_alexmark <- filter(babynames,
  Year == 1992 & (Name == "Alex" | Name == "Mark"))

print(babynames_alexmark) # explicit printing

## # A tibble: 4 x 4
##   Name Sex Count Year
##   <chr> <chr> <dbl> <dbl>
## 1 Alex  Girl    395  1992
## 2 Mark  Girl    20  1992
## 3 Mark  Boy     8743  1992
## 4 Alex  Boy     7348  1992

babynames_alexmark # implicit printing
```

Below the code, a table shows the filtered data:

Name	Sex	Count	Year
Alex	Girl	395	1992
Mark	Girl	20	1992
Mark	Boy	8743	1992
Alex	Boy	7348	1992

The bottom section, "3.3.2 MANIPULATING DATA", shows the same R code and table. A note at the bottom states: "Notice that we can combine conditions using & (AND) and | (OR)."

On the right, a chat window titled "Current conversation" is open. It shows a question: "Why do we use two equals signs in this code chunk?" with a timestamp of Jan 10 2:39 pm. Below the question is a text input field with a placeholder: "Enter your comment or question and press Enter. Mention a friend by typing @. Add hashtags by typing #." At the bottom of the chat window, a message says: "Please add questions or comments to this document."

The above process repeats itself whenever you reach part of the materials you have a question about: highlight text -> type question.

Zoom-based Q&A session

After the two-week self-study period, we will host a one-hour live Q&A session via Zoom. No new material will be presented during this session – rather, this will be an additional opportunity to ask questions and get feedback about the materials. The instructor will use the questions submitted on Perusall as a starting point for discussion and possibly for short code demonstrations illustrating conceptual or syntactical stumbling blocks.

Zoom etiquette: Please be punctual. All participants will initially be entered into a Zoom waiting room and the presenter will admit them to the session at the designated start time. Any participants arriving in the wait room more than 5 mins past the listed start time of the session will not be admitted.