

How to Chart RadioGraphics Top 10 Articles in Google Sheets

This guide explains how to automatically chart articles from the RadioGraphics Top 10 reading list into a Google Sheets spreadsheet. By following these steps, you will duplicate the process demonstrated in the video, from accessing the website to formatting your spreadsheet for further analysis.

Introduction

In this guide, you will learn how to:

- Navigate to the RadioGraphics Top 10 articles page using a web search.
- Select a subspecialty (e.g., Breast Imaging or Cardiac) and a particular article category (e.g., Basic, Intermediate, Advanced).
- Extract key information from an article page, such as the title, author list, publication year, DOI, abstract, etc.
- Log into Google Drive, create a dedicated folder, and set up a new Google Sheet to store the article data.
- Format the spreadsheet by creating specific columns, using data validation for dropdown menus, cleaning up pasted text, and applying a clean design.

Follow this step-by-step guide to build your own chart automatically.

Step-by-Step Instructions

1. Navigate to the RadioGraphics Top 10 Articles Page

1. Open your preferred web browser (the video example uses Arc).
2. In the browser's address bar, type "radiographics top 10 articles" and hit Enter.
3. In the search results, look for the link titled **RG TEAM Top 10 reading list** and click on it.

The screenshot shows a Google search results page for the query "radiographics top 10 articles". The first result is a link to "RG TEAM Top 10 Reading List" from RSNA.org. The page content includes a brief description: "Find journal articles from each imaging subspecialty and training level. Our ongoing collection is curated by and for trainees in the field of radiology." Below this, there are links to various subspecialties: Neuroradiology, Musculoskeletal, Gastrointestinal, Thoracic, and Ultrasound, each with a brief description and a "View" link. Further down, there are links to "Radiological Society of North America | RSNA" and "RadioGraphics", both with descriptions and "View" links. A timestamp at the bottom right of the screenshot reads "2025-03-01 08:47:57".

2. Select a Subspecialty and Article Category

1. Once on the RadioGraphics website, you will see a list of subspecialties such as Breast Imaging, Cardiac, etc.
2. Zoom in if necessary to clearly view all the categories.
3. Click on one of the options (for example, "Breast Imaging").
4. Note that articles are organized further by Resident Year (R1, R2, etc.) and by category levels (e.g., Basic, Intermediate, Advanced).

The screenshot shows the RadioGraphics website's 'Top 10 Reading List' page. At the top, there are navigation links for RSNA, Journals, CME, Contact Us, Subscribe, Email Alerts, and Sign In. Below the header is a banner with the text 'RadioGraphics TEAM' and 'Top 10 Reading List'. The main content area features a grid of 14 categories: Breast Imaging, Cardiac, Emergency, Gastrointestinal, Genitourinary, Gynecologic, Interventional and Vascular, Multisystem, Musculoskeletal, Neuroradiology, Nuclear Medicine, Pediatrics, Thoracic, Trauma, and Ultrasound. At the bottom of the page, there is footer information for the RSNA Radiological Society of North America, including address, phone number, and email, along with links for Information, Help, and Resources. A cookie consent message is also present.

3. Open an Article Page

1. Click on an article (for example, a paper listed under the "Basic" category for R1 residents).
2. The article page will load. Note that you might not have full access to the article content, but key details (title, author list, abstract, DOI, year) will be available.

The screenshot shows an article page from the RadioGraphics website. The top navigation bar includes links for RSNA, Journals, CME, Contact Us, Subscribe, Email Alerts, and Sign In. The main title of the article is 'Digital Breast Tomosynthesis: Physics, Artifacts, and Quality Control Considerations'. Below the title, it lists authors: Nikki Tirada, Guang Li, David Dreizler, Luke Robinson, Gauri Khorjekar, Sergio Dromi, Thomas Ernst, and their author affiliations. The article was published online on Feb 15, 2019, with the DOI <https://doi.org/10.1148/rg.2019180046>. The abstract section discusses the basic principles of digital breast tomosynthesis, including image acquisition, artifacts, and quality control. It notes that substantial increases in the use of DBT are expected, and radiologists must understand the basic principles of image acquisition, artifacts, and quality control. The article also covers the standard acquisition parameters common to both full-field digital mammography (FFDM) and DBT, such as tube motion, sweep angle, and number of projections. It highlights that continuous tube motion and x-ray emission decrease imaging time but lead to focal spot blurring when compared with step-and-shoot techniques. The abstract concludes by stating that image quality is therefore, and imaging facilities are required to obtain a specific certification in addition to that for FFDM, and all personnel (radiologists, technologists, and medical physicists) are mandated to complete initial DBT training and maintain appropriate continuing medical education credits.

4. Log Into Google Drive and Create a New Folder

1. Open a new browser tab and go to drive.google.com.
2. If you are not already logged into your Google account, use your appropriate login method (this might involve typing your email or using a passkey). Note: The login prompt may differ depending on your computer.
3. Once logged in, click the + New button and select **New folder**.
4. Name the folder (e.g., RG-Top10-Articles) and create it.

Owner Last modified File size

Owner	Last modified	File size
me	Apr 15, 2022	—
me	Feb 7, 2021	—
me	Jul 9, 2023	—
me	Mar 11, 2020	—
me	Jun 28, 2023	—
me	Aug 17, 2022	—
me	Sep 9, 2022	—
me	Nov 3, 2021	—
me	May 13, 2021	—
me	Jul 3, 2024	—
me	Mar 3, 2022	—
me	Jul 29, 2023	—
me	Jul 7, 2023	—
me	Aug 31, 2020	—
me	Aug 11, 2022	—
me	Aug 11, 2021	—
me	Apr 8, 2021	—
me	May 21, 2021	—
me	Jul 7, 2023	—
me	Aug 11, 2022	—

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5. Create and Name a New Google Sheet

1. Open your newly created folder by clicking on it.
2. Click the **+ New** button again, choose **Google Sheets**, and then select **Blank spreadsheet**.
3. Name the spreadsheet (e.g., Top 10 Articles).

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6. Set Up Spreadsheet Columns and Data Validation

1. In the first row of the Google Sheet, enter the following column headers:

2. **Column A:** Abstract
3. **Column B:** Author List
4. **Column C:** Year
5. **Column D:** DOI
6. **Column E:** R Year

Column F: Level

Configure the "Level" Column:

9. Select the entire column F (or the header cell) and click on **Data > Data validation**.
10. Change the criteria to **Dropdown** and add the following items one-by-one: Basic, Intermediate, Advanced.
11. Optionally, assign a distinct color to each option.

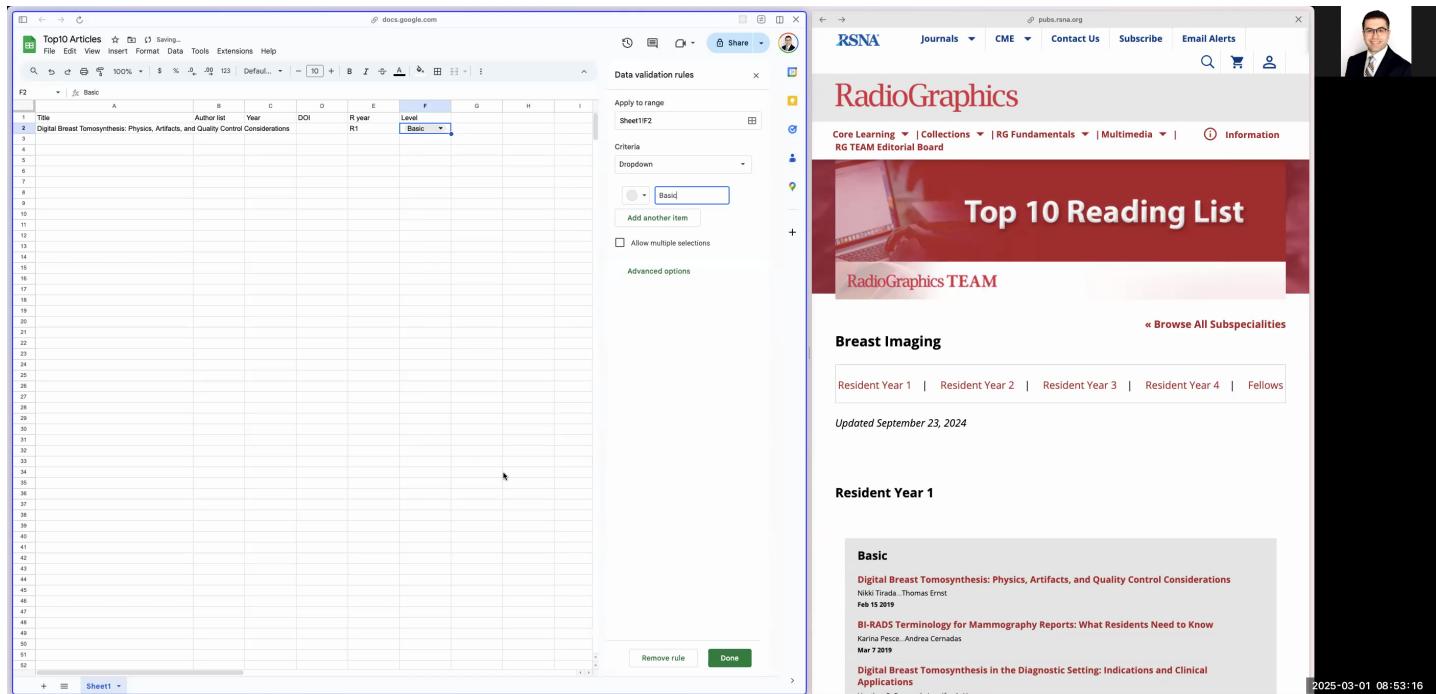
Click **Done**.

Configure the "R Year" Column:

14. Select column E and navigate to **Data > Data validation**.
15. Change the criteria to **Dropdown** and add items such as: R1, R2, R3, R4 (or as required).
16. Optionally, assign colors to these options.

Click Done.

(Optional) Remove unnecessary default columns by selecting columns G to Z, right-clicking, and choosing **Delete columns**.



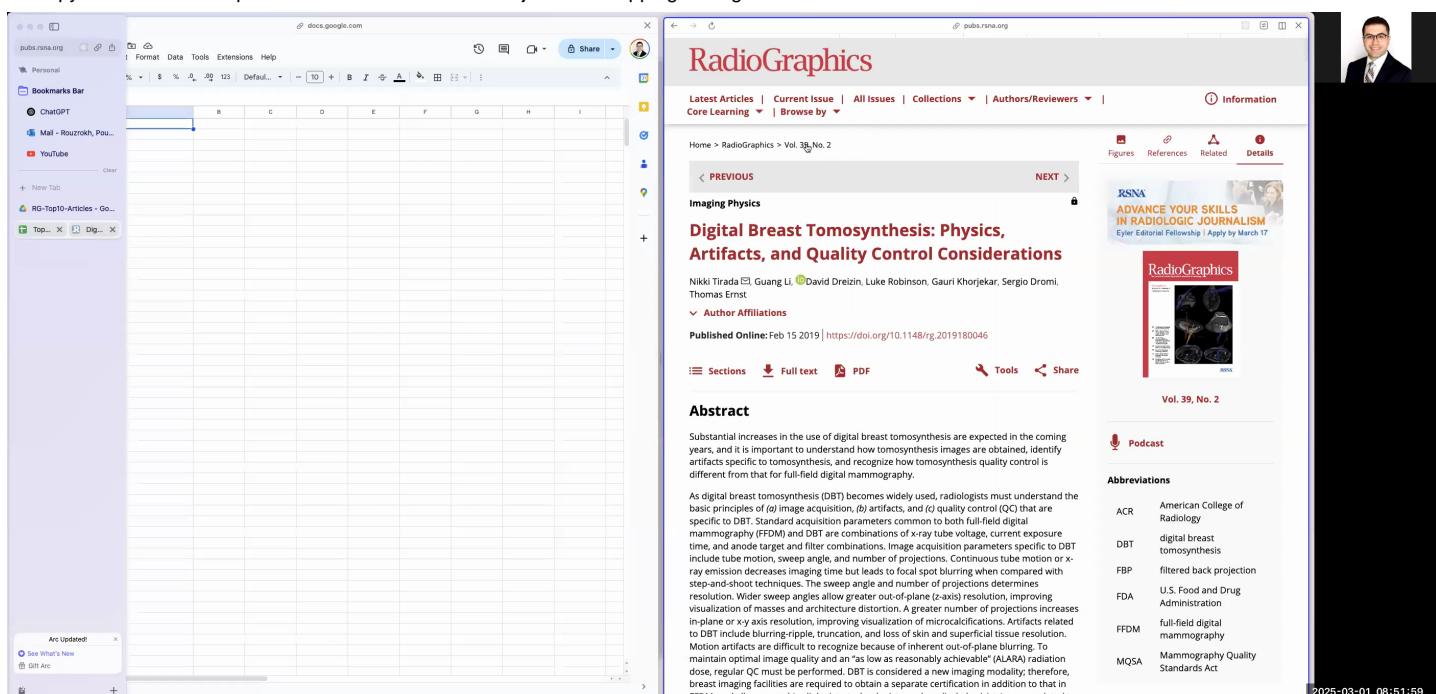
7. Transfer Data for Each Article into the Spreadsheet

For each article on the RadioGraphics page, follow these steps:

Split Your Screen: Arrange the browser window so you can view both the RadioGraphics article page and the Google Sheet side by side.

Extract and Paste Data:

3. **Title:** Copy the article title and paste it into the appropriate cell in your spreadsheet.
4. **Author List:** Highlight and copy the list of authors. To ensure clean text without extra characters, paste the text into your browser's address bar first, then copy it again and paste it into the corresponding cell.
5. **Publication Year:** Manually enter the publication year (e.g., 2019) into the Year column.
6. **DOI:** Copy the DOI link from the article page and paste it into the DOI column.
7. **R Year and Level:** Use the dropdown menus in the respective cells to select the appropriate Resident Year (e.g., R1) and Level (e.g., Basic).
8. **Abstract:** Copy the article abstract. If the abstract contains unwanted line breaks or extra spaces, paste it into the address bar to strip formatting, then copy it from there and paste it into the Abstract cell. Adjust text wrapping settings as needed.



1. Formatting:

2. Bold any key text such as article titles for better readability.
3. Apply alternate colors to rows for better visual segmentation by selecting all relevant rows and clicking on **Format > Alternate colors**.
4. Remove any extra rows beyond those with data to maintain a clean layout.

8. Repeat the Process for All Articles

- Go back to the list of articles. For every category, residency year, and level available, repeat Step 7 until all articles are indexed in your spreadsheet.



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9. Finalize and Save Your Spreadsheet

1. Once you have entered data for all articles, review the spreadsheet to ensure all data is correctly placed and formatted.
2. Delete any extra rows and columns that are not needed.
3. Save your changes. Your Google Sheet is now ready to be used in your Python scripts or other applications.
4. Notify your users or stakeholders that the spreadsheet creation process is complete.

Conclusion

You have now successfully set up a workflow for automatically charting RadioGraphics Top 10 articles into a Google Sheet. This organized approach allows for easy import into programs like Python for further data processing and analysis. Follow these steps for every article category and residency year to maintain a neat and comprehensive dataset.

Happy charting!