

Charting Radiographics Top 10 Articles into a Google Spreadsheet

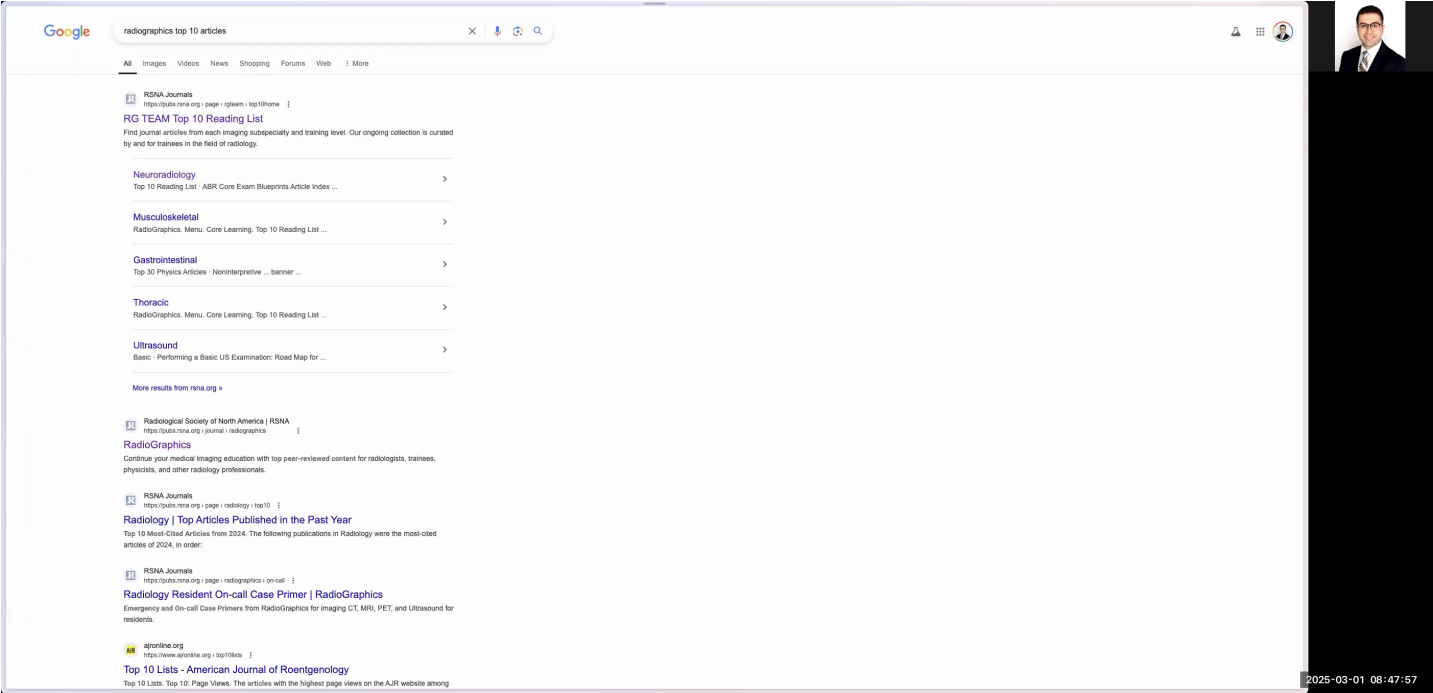
This guide explains how to automatically chart articles from the Radiographics Top 10 Reading List into a Google Spreadsheet. You will learn how to navigate the Radiographics website, extract key details for each paper, and organize them in a well-formatted Google Sheet that can later be used in Python programs or other applications.

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1. Access the Radiographics Website

- 1. Open your web browser.
- 2. In the search bar, type **"Radiographics top 10 articles"**.
- 3. From the Google search results, click on the link labeled **"RG Team Top 10 Reading List"**. This is the target page containing various article categories.



2. Select a Category and Article

- 1. Once the Radiographics Top 10 page loads, you will see several article categories (e.g., Breast Imaging, Cardiac, etc.) along with subdivisions by residency year and article level (basic, intermediate, advanced).
- 2. Click on any category that interests you (for example, **"Breast Imaging"**). This will display a list of articles under a specific residency year (e.g., R1).
- 3. Choose an article from the list. Note that you might see that the full article link isn't directly accessible – this is acceptable as your focus is on charting article details.

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Top 10 Reading List

Top 10 Reading List

A "Top 10 Must Read" list for each subspecialty (below) has been curated specifically by radiology trainees for radiology trainees.

Pick and choose from each subspecialty and level (resident year 1 through fellow) depending on your interest and expertise.

Breast Imaging

Cardiac

Emergency

Gastrointestinal

Genitourinary

Gynecologic

Interventional and Vascular

Multisystem

Musculoskeletal

Neuroradiology

Nuclear Medicine

Pediatrics

Thoracic

Trauma

Ultrasound

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3. Log In to Google Drive

1. Open a new browser tab and go to <https://drive.google.com>.
2. Log in to your Google account. Note that if you are not already signed in or need to use a different account, select the appropriate account or enter your credentials.
3. Follow any prompts (passkeys, passwords, etc.) as needed to complete the login process.

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Name	Owner	Last modified	File size
0_Temp	me	Apr 15, 2022	—
Archived	me	Feb 7, 2021	me
Codes	me	Jul 9, 2023	me
Colab Notebooks	me	Mar 11, 2020	me
Cvs	me	Jun 28, 2023	me
Designs	me	Aug 12, 2022	me
Evaluation	me	Sep 9, 2022	me
Exports	me	Nov 3, 2021	me
Green Card	me	May 13, 2021	me
Griffin	me	Jul 3, 2024	me
Journal Reviews	me	Mar 3, 2022	me
KRR	me	Jul 29, 2023	me
LCU Database			
Match	me	Jul 7, 2023	me
ML Education Sub-cmte			
Notability	me	Aug 31, 2020	me
OSAIL			
PAIR Club Archives	me	Aug 12, 2022	me
Paperpile	me	Aug 12, 2021	me
Personal	me	Apr 8, 2021	me
Pourla - Summaries	me	May 21, 2021	me
	me	Jul 1, 2023	me
	me	Aug 12, 2022	me

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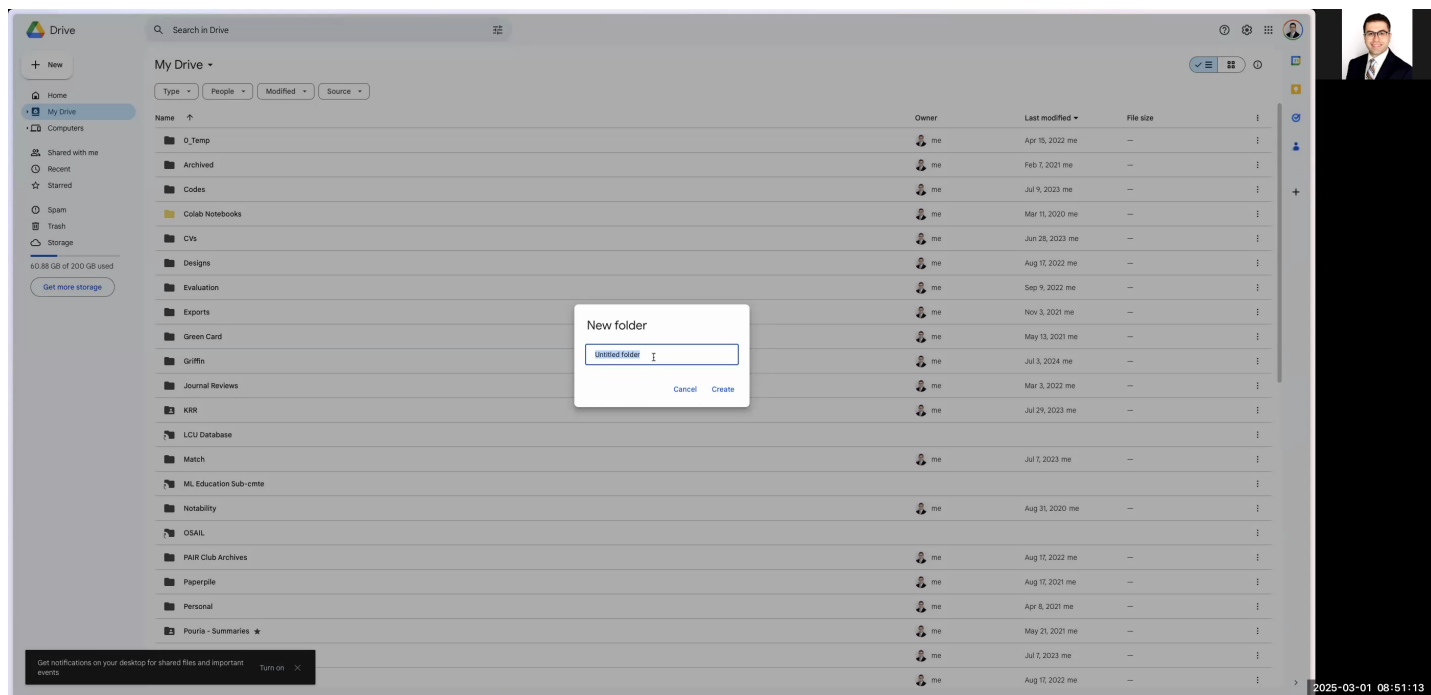
Turn on

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4. Create a New Folder and Spreadsheet

1. In Google Drive, click on the **New** button and select **Folder**.
2. Name the folder "**rg-top10-articles**" and create it.
3. Open the newly created folder.
4. Inside the folder, click on the **New** button again and choose **Google Sheets** to create a new, blank spreadsheet.
5. Name the spreadsheet "**top10-articles**".

![Shows the creation and naming of a new Google Sheet inside the folder. - The newly created Google Spreadsheet titled "top10-articles"]



5. Set Up Your Spreadsheet

1. Inside the spreadsheet, set up column headers for the data you will be charting. Recommended headers include:
2. Title
3. Author List
4. DOI
5. Residency Year (R1, R2, R3, R4)
6. Level (Basic, Intermediate, Advanced)

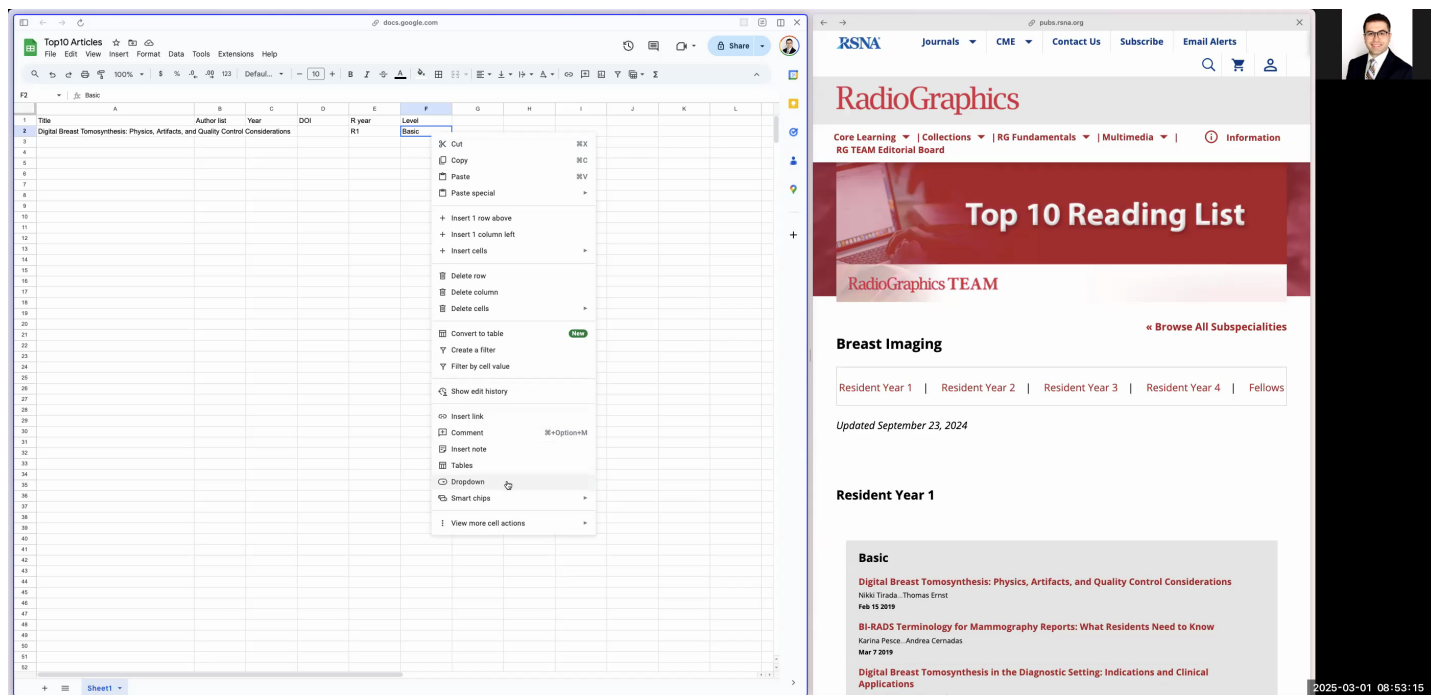
Abstract

For the **Residency Year** and **Level** columns, configure drop-down menus:

9. For Residency Year, add options: R1, R2, R3, R4.

For Level, add options: Basic, Intermediate, Advanced.

Format your columns as needed. For example, you might want to use bold for the header row and choose pleasing colors for the drop-down selections.



6. Extract and Enter Article Data

For each article you wish to chart, follow these steps:

1. **Copy Article Details:**
2. **Title:** Highlight the title on the article page and copy it.
3. **Author List:** Copy the list of authors.
4. **Year:** Identify the publication year (e.g., 2019) and note it down.
5. **DOI:** Copy the DOI link provided on the page.

Abstract: Copy the abstract text. If the abstract contains extra formatting (such as extra line breaks or unintended spaces), paste the text first into your browser's address bar (or a plain text editor) to strip formatting, then copy it again before pasting it into the spreadsheet.

Input the Data into Google Sheets:

- 8. Add a new row for each article.
- 9. Paste the copied details into the corresponding columns.
- 10. Use your drop-down menus to select the correct **Residency Year** and **Level** for each article.

Top 10 Articles

File Edit View Insert Format Data Tools Extensions Help

100% 123 Default...

A B C D E F G H I J K L

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52

Sheet1

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Imaging Physics

Digital Breast Tomosynthesis: Physics, Artifacts, and Quality Control Considerations

Nikki Tirada, Guang Li, David Dreizin, Luke Robinson, Gauri Khorjekar, Sergio Dromi, Thomas Ernst

Author Affiliations

Published Online: Feb 15 2019 | https://doi.org/10.1148/rp.2019180046

Sections Full text PDF

Abstract

Substantial increases in the use of digital breast tomosynthesis are expected in the coming years, and it is important to understand how tomosynthesis images are obtained, identify artifacts specific to tomosynthesis, and recognize how tomosynthesis quality control is different from that for full-field digital mammography.

As digital breast tomosynthesis (DBT) becomes widely used, radiologists must understand the basic principles of (a) image acquisition, (b) artifacts, and (c) quality control (QC) that are specific to DBT. Standard acquisition parameters common to both full-field digital mammography (FFDM) and DBT are combinations of x-ray tube voltage, current, exposure time, and anode target and filter combinations. Image acquisition parameters specific to DBT include tube motion, sweep angle, and number of projections. Continuous

Figures References Related Details

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Podcast

Abbreviations

ACR American College of Radiology

DBT digital breast tomosynthesis

FBP filtered back projection

FDA U.S. Food and Drug Administration

FFDM full-field digital mammography

MQSA Mammography Quality Standards Act

QC quality control

3D three dimensional

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7. Finalize and Format Your Spreadsheet

- 1. **Review Data:**
 - 2. Ensure that each row properly corresponds to one article.
- Delete any extra or empty rows that are not needed to keep your spreadsheet neat.

Enhance Formatting:

- 5. Bold the title for visual emphasis if preferred.
 - 6. Adjust the cell wrapping settings so that text appears neatly without excessive line breaks. (For the abstract column, disable wrapping if it results in unwanted breaks.)
- If using colors for the drop-down menu options, adjust them to maintain readability.

Confirmation:

- 9. Once you have charted all articles from every category, the spreadsheet is complete and ready for use in your Python programs or other applications.

Conclusion

By following these steps, you have successfully charted the Radiographics Top 10 articles into a well-organized Google Spreadsheet. This structured approach not only ensures data consistency but also prepares the spreadsheet for further processing in tools like Python. Feel free to repeat the steps for different categories or residency years as needed. Happy charting!