








Self paced multimedia resources to create visual abstracts

Compiled by
Dr Amanda Charlton

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Quick start template

Title 15 words maximum including 1-4 key words



Main point 1 in
15 words or less



Main point 2 in
15 words or less



Main point 3 in
15 words or less

Visual abstract created by your name and date
Reference and hyperlink to DOI

- On a piece of paper, simplify your written abstract into 3 main points. Think of representative metaphors or icons.
- In Powerpoint drag rectangles to form panels. Change fill to a light colour. Overlay text boxes. Use inbuilt icons. Insert>Icons

Interactive-Online course



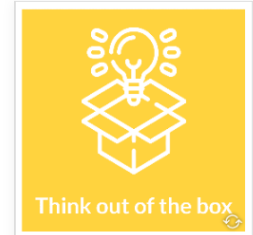
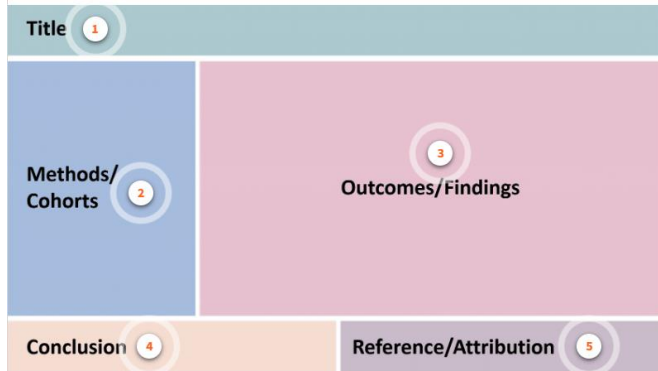
Creating a visual abstract: **My process**

Michelle Lim MBChB, MRCP
@whatsthegr
Nephrologist
Course Director: Visual Abstract rotation, Nephrology Social Media Collective

An integrated multimedia interactive short course on creating effective visual abstracts. Lim M. How to create effective visual abstracts.

Durham, North Carolina; 2021

<https://people.duke.edu/~ms203/#/>



Listen – Podcasts on visual abstracts



11 min section of [Podcast interview](#) with Dr Andrew Ibramim, creator of the visual abstract. Timepoints 13:15 to 24:12min

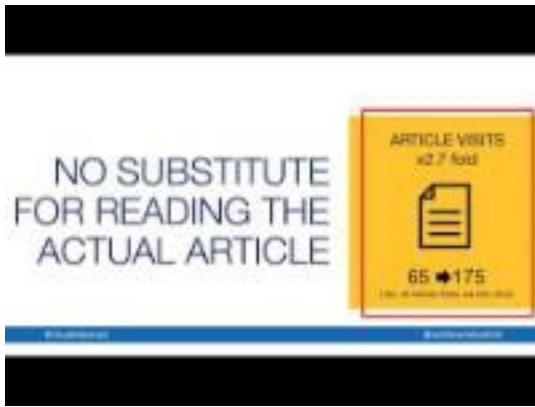


Interview with Chelsea Harris, surgical resident, took over from Andrew Ibrahim making the VA for Annals of Surgery, she has an equity and diversity focus.

https://open.spotify.com/episode/250Y1c22YfFDMCy2HjsEm4?si=ws9Egpo0S-WbOEx2GjYlVA&dl_branch=1



Videos – how to make a visual abstract – follow along



11 min presentation by Andrew Ibrahim, the founder of visual abstracts, bad audio, but good

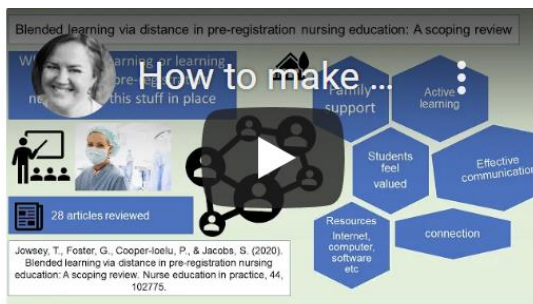
overview with lots of examples

<https://youtu.be/CzSvC6ZtS1I>



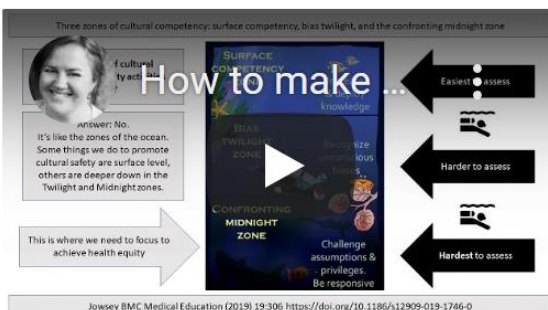
7.30 min Visual Abstract tutorial using powerpoint

<https://youtu.be/e4Ani6SKakg?t=4>



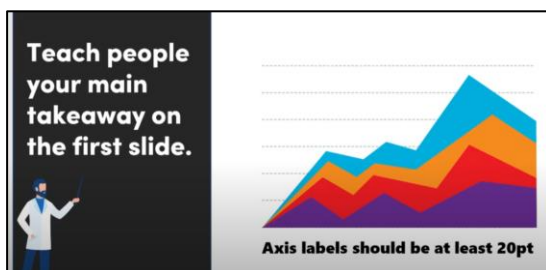
6 min - Tanisha Jowsey constructs a visual abstract in Powerpoint using the inbuilt icon library and smart art for graphics

<https://youtu.be/EO1BZanPR-c>



4 min -Tanisha Jowsey constructs a visual abstract in Powerpoint using CC0 Photos

https://youtu.be/BSqd3NUg_XI

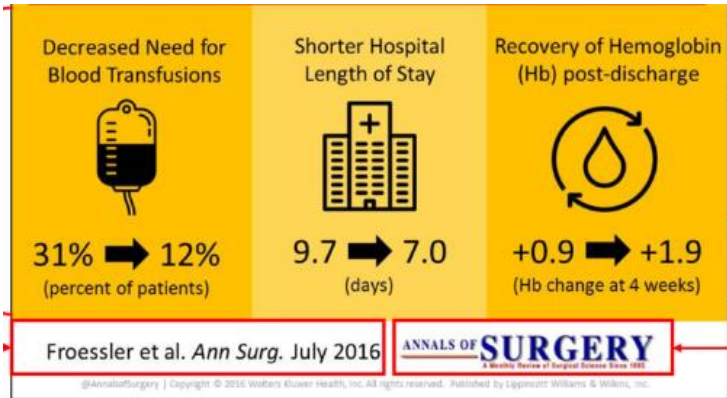


6 min –Mike Morrison constructs a 3 page rolling GIF twitter poster in Powerpoint

https://youtu.be/fQDL8r3r_d4



Read – introductory guides and articles



Comprehensive open source primer Andrew Ibrahim , the original creator of visual abstracts. He is a surgeon and architect. Download the pdf. Embedded video. Checklist of included items.

<https://www.surgeryredesign.com/resources>

Table 1. Guidelines to Standardize Visual Abstracts for Scientific Research

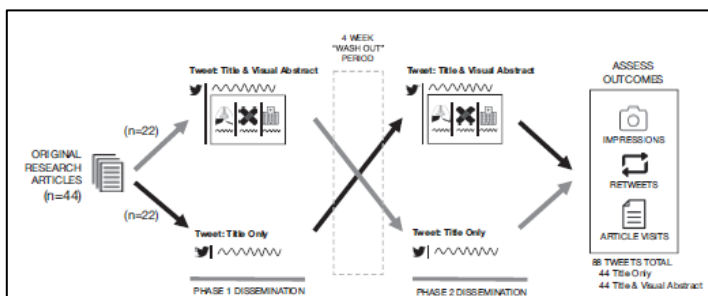
Guideline	Rationale
Clearly state the question or purpose of the study.	Give context for study
Describe the research design (e.g., randomized trial, retrospective review, survey).	Make quality of evidence clear
Include the primary outcome of the study.	Minimize reporting bias
Report, when appropriate, <i>P</i> -values or others measures of significance.	Improve reader ability to interpret findings
Label citation of the article in image itself, and include link to the full article when posted.	Make source of data easy to locate
Use language consistent with the terms and definitions used in the article.	Minimize “editorializing” and bias
Only use images for which the authors or journal have rights.	Avoid violating copyright laws.
External review (by someone who did not create the visual abstract) for accuracy and assessment of bias.	Ensure credibility and identify unconscious bias.

Guidelines

Ibrahim AM. Seeing is Believing: Using Visual Abstracts to Disseminate Scientific Research. *American Journal of Gastroenterology*.

2018 Apr;113(4):459–61.

[Seeing is Believing: Using Visual Abstracts to Disseminate S... : Official journal of the American College of Gastroenterology | ACG \(lww.com\)](#)



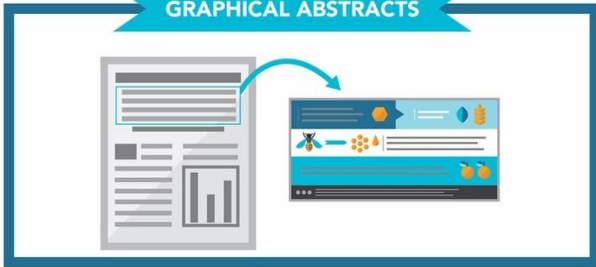
Evidence of efficacy

Ibrahim AM, Lillemoe KD, Klingensmith ME, Dimick JB. [Visual Abstracts to Disseminate Research on Social Media: A Prospective, Case-control Crossover Study](#). *Annals of Surgery*. 2017 Dec;266(6):e46–8.



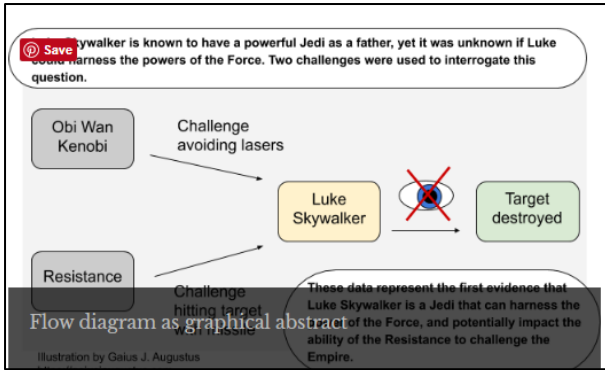
Read – more guides and articles – skill building

GRAPHICAL ABSTRACTS



Excellent illustrated website guide by Animate your Science on construction of a graphical abstract <https://www.animateyour.science/post/graphical-abstracts-how-to-master-the-latest-trend-in-publishing>

Blog on how to make, 3 different types of graphical output, uses star wars as the story to abstract. More about how to extract and group information . <https://www.annaclemens.com/blog/make-graphical-abstract-paper>



A warning about poor visualisation. Article on science visualisation in broader context, current limitations, useful links to more resources. Nayak S, Iwasa JH. Preparing scientists for a visual future. EMBO reports. 2019 Nov 5;20(11):e49347. [Open access link.](#)

"However, examples of **substandard visualizations are abundant**—which could potentially lead to misinterpretation [2]. Learning by doing without any expert intervention could lead to **perpetuation of poor design practices**, and peers and advisors often cannot issue adequate feedback."





Look – galleries of visual abstracts –to inspire and critique

Target prostate biopsies: How best to report in structured format?

TRUS systematic biopsy
ICCR/CAP structured report
➤ Score each core

➔ Addition of MRI target biopsy needs additional reporting elements
Comprehensive structured report
➤ Score each core AND

Phyllodes tumours: time for standardisation

No standardised reporting protocol exists for phyllodes tumors.

550 phyllodes tumor reports reviewed from 11 institutions.

85% of reports lacked one or more elements needed to determine grade.

More than 50% of reports lacked.....

- degree of stromal cellularity
- degree of stromal atypia
- presence of stromal overgrowth
- tumour border description

A standardised report for phyllodes tumors should be developed and used.

Rosenberger, Laura N., Lisa M. Quattara, Samantha M. Thomas, Sarah W. Norkkaa, Tina J. Hatten, Karolina K. Ludwig, Lisa C. Jacoby, et al. Standard Reporting of Histopathologic Details in a Multi-Institutional Academic Cohort of Phyllodes Tumors: Time for Standardization. *Annals of Surgical Oncology* 28, no. 12:13, November 2020. PMID: 33003363

Visual Abstract created by Amanda Charlton 13.5.22

Visual abstracts by A Charlton published in RCPA newsletters. [Visual Abstracts 2022](#)

Open each VA as a pdf to get live links and a full page view.



#VisualAbstract #VisualAbstractGIF by @michellebr00ks

#TWFNFR: Things We Do for No Reason

Toxic Quizzing in Medical Education

Why you might think toxic quizzing is helpful:

The Yerkes-Dodson Law: Task performance as stress, until stress becomes overwhelming and performance drops* "in dancing rats"

Why toxic quizzing might be harmful:

Students report toxic quizzing as demoralizing, vindictive, anxiety-provoking, and defeating.

What you should do instead:

Incorrect responses can be used as stepping stones to promote learning rather than points of emphasis for purposes of humiliation.

J G I F of Hospital Medicine

Kinneer B et al. June 2022
Visual Abstract by @michellebr00ks

Scroll through this [Gallery of visual abstracts](#).

Or search #VisualAbstract on X [formerly twitter]



Icons – where to find copywrite free



PowerPoint
365

[Link](#)
Insert/icons

Easiest starting point.
No attribution
required



Health Icons

<https://healthicons.org/>

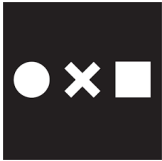
Free, opensource no
attribution required



Flaticon

<https://www.flaticon.com/>

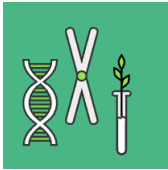
Free- must attribute or
pay \$90 Euro/yr to use
without attribution



Noun Project

<https://thenounproject.com/>

Free- must attribute or
pay \$40 USD /yr to use
without attribution



Bioicons

<https://bioicons.com/>

Free. Varies from CC0
to by attribution



Commoncraft
cut outs

<https://www.commoncraft.com/cut-out-library>

\$34 USD one time
purchase, use forever