Academic Presentation Resources

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Preparation

- Take enough time to prepare properly (visuals + message)
- Think about your audience and what they want out of the talk, and then design your talk with them in mind (no presentation recycling)
- Practice to make sure your talk fits the amount of time you have

Consider:

- What is your message? This is the key takeaway your audience leaves with
 sometimes it means paring down other content so the message stands out
- Who are you talking to? You want to engage your audience, so you need to know something about them: what are they interested in, what matters to them, why do they care about what you have to say?
- When are you speaking? Think about the context you are speaking within don't spend a ton of time on it but be aware of relevant events/papers that
 affect how your content might be received.
- Where are you speaking? It helps to be familiar with the space and the setup/tech you're working with. Does the lighting wash out your slides? Is there background noise? Do you have a podium for notes? Knowing all of this in advance helps make you more comfortable in the moment.
- How are you sharing your info? Your approach will be different for a conference poster session vs. a class you TA vs. a public event for science enthusiasts. Are you using slides? Drawing on a whiteboard? Giving a pitch at a networking event? If it is a virtual talk, what platform are you using and what capabilities do you have?
- Why are you speaking? You have something unique to say that your audience couldn't get just from reading your poster or paper. You should be the focus of your talk, and visuals should support you rather than compete. The audience wants to hear what you have to say and wants you to succeed.

And... but... therefore

- You can still tell a story when talking about your science! The convention with academic papers is to make them impersonal and 'remove' the scientist - you don't need to carry this over into talking about your work (unless you have specific instructions to present that way).
- Humans are naturally interested by stories, and it's one of the best ways to engage people and get them invested in your science quickly. Tell your science story, including new challenges or unexpected results you encountered along the way.

And... but... therefore

Agreement... Contradiction... Confidence

also
plus
equally
identically
uniquely
like
as
too

despite
however
yet
still
unlike
albeit
besides
although

therefore
as a result
in that case
for this reason
in effect
so
thus
consequently

There are many ways to express the same story structure. You are not just limited to and... but... therefore.

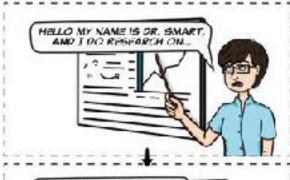
TELL THEM A STORY

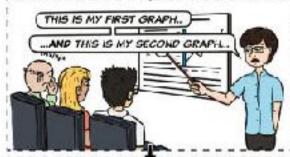
HOW TO AVOID THE STANDARD BORING PRESENTATION

BY PR. TULLIO ROSSI WITH THE ABT TEMPLATE DEVELOPED BY DR. RANDY OLSON

A PRESENTATION IS COMING UP...
WHICH KIND OF PRESENTATION ARE YOU GOING TO GIVE?

THE STANDARD LIST-LIKE PRESENTATION







THIS WAS AN AND-AND-AND*

TYPE PRESENTATION

LIST OF FACTS

TELL A STORY

IT HAS NO NARRATIVE STRUCTURE



NOT THE WAY TO GO!



DESIGNED DY.

GHAPE THE COMIC WITH ATTREMITION TO ANIMATE YOR SCHOOL (WWWANIAM EYELK-BOIRNE) NO PERINATIVES ALLOWED

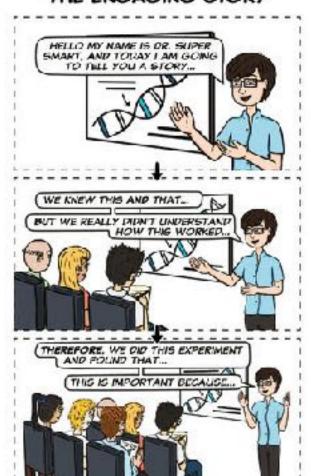








THE ENGAGING STORY



THIS WAS AN AND-BUT-THEREFORE*

TYPE PRESENTATION

IT IS ENGAGING IT TELLS A STORY IT HAS NARRATIVE STRUCTURE



THE WAY TO GO!



AND: SET UP - BACKGROUND

O BUT: PROBLEM - CONFLICT - DRAMA

THEREFORE: JOURNEY → SOLUTION
*SOURCE: DR. RANDY OLSON

Content tips:

- Keep it simple! Both language and visuals are more immediately understood if they are simple.
- Tailor your content to your audience. If you're talking to academic peers you can use more jargon and graphs/ images specific to your field. If not, you will need to tweak the way you talk about things: simpler language and more time explaining scientific concepts. Can you simplify any visuals so that the concept comes across, but details that might confuse non-experts are removed?
- Some resources for swapping simple language for scientific jargon:
 - Plain language from Cdn. government: https://www.btb.termiumplus.gc.ca/tcdnstyl-chap?
 %20lang=eng&lettr=chapsect13&info0=13
 - Simple Writer from XKCD: https://xkcd.com/
 simplewriter/
 - Hemmingway editor: http://www.hemingwayapp.com

Slide design:

- White space is your friend. Packing more information onto slides or posters doesn't increase impact, it makes things harder to see and understand and can overload your audience with too many ideas at once. White space makes it easy for the audience to know what to focus on.
- One idea per slide! Total number of slides doesn't matter, as long as you
 explain them and your presentation flows.
- Pick a font. Stick with one font to keep the slides cohesive. Use size and other text effects sparingly for impact. Keep the colour simple, and make sure it is readable against your background (remember, screens will always be brighter than a projection).
- Avoid visual noise. Template elements, branding, dates, conference names, etc. are all visual noise that take up space on your slides but don't add any content. Whenever possible, leave them out.
- Focus on visuals rather than words. Images are engaging and impactful. Use them to support what you are saying, rather than having competing text on your slides.
- But conference proceedings are published... In some cases, academic
 conventions mean you need to include text on your slides for archiving
 later. In these scenarios, ask if you can submit a separate presentation/
 document with the necessary text so you can still use an image-focused
 presentation for your talk.

Visuals:

- **Aim for photos.** Photos are interesting and people are great at immediately gaining information from images.
- Explain graphs and charts. Don't assume your audience can understand graphs just from looking at them. Explain the what different parts of it show, and then explain what the data it shows is saying.
- Be cautious of colour. Colour is fun but can be distracting. Be aware of how many colours you are introducing with text and graphs/charts, especially if you are working with a branded slide template. Check if your graphs are colourblind friendly here: https://www.color-blindness.com/coblis-color-blindness-simulator/
- Avoid themed/branded slide decks. Simpler is better. Branded design elements just add non-essential visual distraction. If your institution or collaboration requires a branded slide deck, use the simplest version available.
- Free stock photos (don't use the first image on the first page everyone uses that one!): https://pixabay.com
- Free icons: https://thenounproject.com

Accessibility:

- Use a mic. Whenever one is available, use a mic. Even if you project
 well and aren't in a huge room. It makes your talk more accessible to
 anyone with hearing impairments, and it saves you from straining your
 voice. If no mic is available, check in with your audience to make sure
 those in the back can hear you.
- Use AT LEAST 24 pt font. Help people read your slides by making the text bigger. This is also a good way to cut down on text - if you're tempted to make the text smaller to fit it, there's too much text!
- Don't rely on colour to interpret graphs. Graphs and charts can be a nightmare for people who are colourblind (green/red is especially bad).
 Don't rely only on colour - use symbols for different data sets, and make sure to also explain graphs well.
- **Explain images.** Images should support your talk, and it's important to still explain them so the audience understands the significance, given that you could have visually impaired audience members. When you submit slides/documents, include alt text for all images.
- Caption yourself! Google Slides, PowerPoint, and Zoom all have tools that let you add captions to your presentation in real-time, making your presentation accessible to those with hearing impairment. It's also helpful with the international nature of physics, because you will often have non-native English speakers in the audience who could miss words with due to pacing/accent.

Virtual presenting:

- Reduce distractions. As much as possible, reduce background noise and visual distractions. Use a virtual background so no one can see your laundry/Christmas tree/cat, and turn off appliances that might make noise.
- Use headphones with a built in mic. Headphones or earbuds work, and this mic
 will be better than your built-in computer one. Make sure your hair and clothing
 aren't rubbing against the mic and creating crackling sounds (scarves are the
 worst for this).
- Think about time. Keep in mind that your audience is probably spread across different time zones, and make sure you know what time zone your presentation slot is in. Be aware of when in the schedule you are too if people have been sitting in front of screens for a long time already or it's the end of the day, don't be afraid to start off with a quick stretch break to help beat screen fatigue.
- Try the software in advance. There are many different virtual meeting platforms, and each one has slightly different quirks. If possible, try it before you present so you are comfortable with the features and know what to expect.
- Your audience will probably give less feedback that's ok. One of the great things about presenting in-person is being able to easily and quickly read your audience's reaction and energy. In virtual formats, they will probably be quieter and it can feel like you are talking into a void. That's normal! Your audience is still listening and engaged, you just aren't getting those cues as easily, especially if you are sharing a screen.
- Make it interactive. Most meeting software platforms have options for participants to chat, enter breakout rooms, participate in polls, etc. Get creative when thinking about how to you can include activities for your audience.

Confidence

- You are the expert. You are speaking for a reason, and your audience wants to hear what you have to say. They want you to succeed! You have something unique and important to say. Own your time, and say it.
- Don't apologize. Your audience doesn't know what you're planning to say in your talk. If you miss something, don't apologize. You can work it in later if you want (I wanted to mention...), but you're the only one who will ever know if you left something out.
- Fake it 'til you make it. If you're nervous, don't tell your audience. They want you to do well, and you want to do well. Getting up in front of them and leading with 'I'm sorry I'm really nervous' lowers both of your expectations. Even if you're jittery at the start, it will get smoother as you go along.
- Nerves and excitement feel the same. If you get butterflies or sweaty palms before you present, remember this: physically, being nervous and being excited feel the same. If you get this feeling, you have the choice to decide what it means. Tell yourself you're excited, not nervous, and you can trick your brain out of the nerves!