INTRODUCTION TO PRESENTATION SKILLS

UNIVERSITY OF OXFORD

MATHEMATICAL, PHYSICAL AND LIFE SCIENCES DIVISION

MOLLY GRACE

FELLOW IN BIOLOGY, WADHAM COLLEGE

DEPARTMENT OF ZOOLOGY

NERC KNOWLEDGE EXCHANGE FELLOW

WELCOME TO PRESENTATION SKILLS

COURSE OBJECTIVES

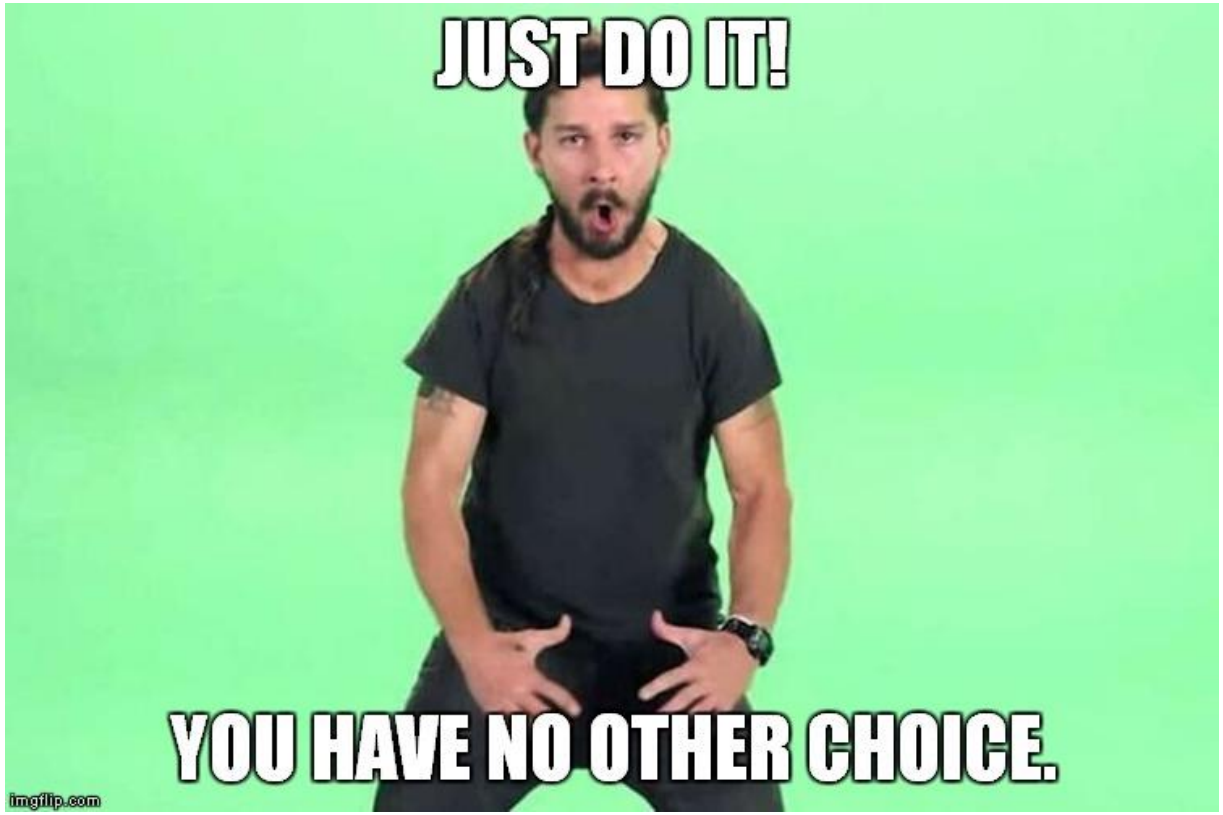
1. Equip participants with the tools and techniques needed to give a successful presentation in a variety of formats
2. Create a foundation for presenting your current project through practice

Each subject area within the MPLS Division has its own specific requirements for research presentations and it must be stressed that this course does not seek to address these.

PARTS OF THE COURSE

1. Why are presentation skills important?
2. Conquering Fears- Tips and Tricks
3. Presenting for the audience (new: virtual presenting)
4. Design tips and tricks (PPT/poster)

WHY ARE WE HERE?



GROUP ACTIVITY:
WHY DO WE CARE ABOUT GIVING PRESENTATIONS?

In what different situations might you need/ want to give a presentation?

WHY ARE WE HERE?

Presentations are incredibly important for:

1. Networking and feeling part of your field
2. Getting to a conference in the first place
3. Finding collaborators
4. Getting funding/ a job
5. Public engagement

GROUP ACTIVITY:
WHY DO WE CARE ABOUT GIVING PRESENTATIONS?

What are some possible presentation formats/styles?

TIPS TO OVERCOME NERVOUSNESS

Controlling your nerves is good for

1) Your emotional state
2) The audience's emotional state

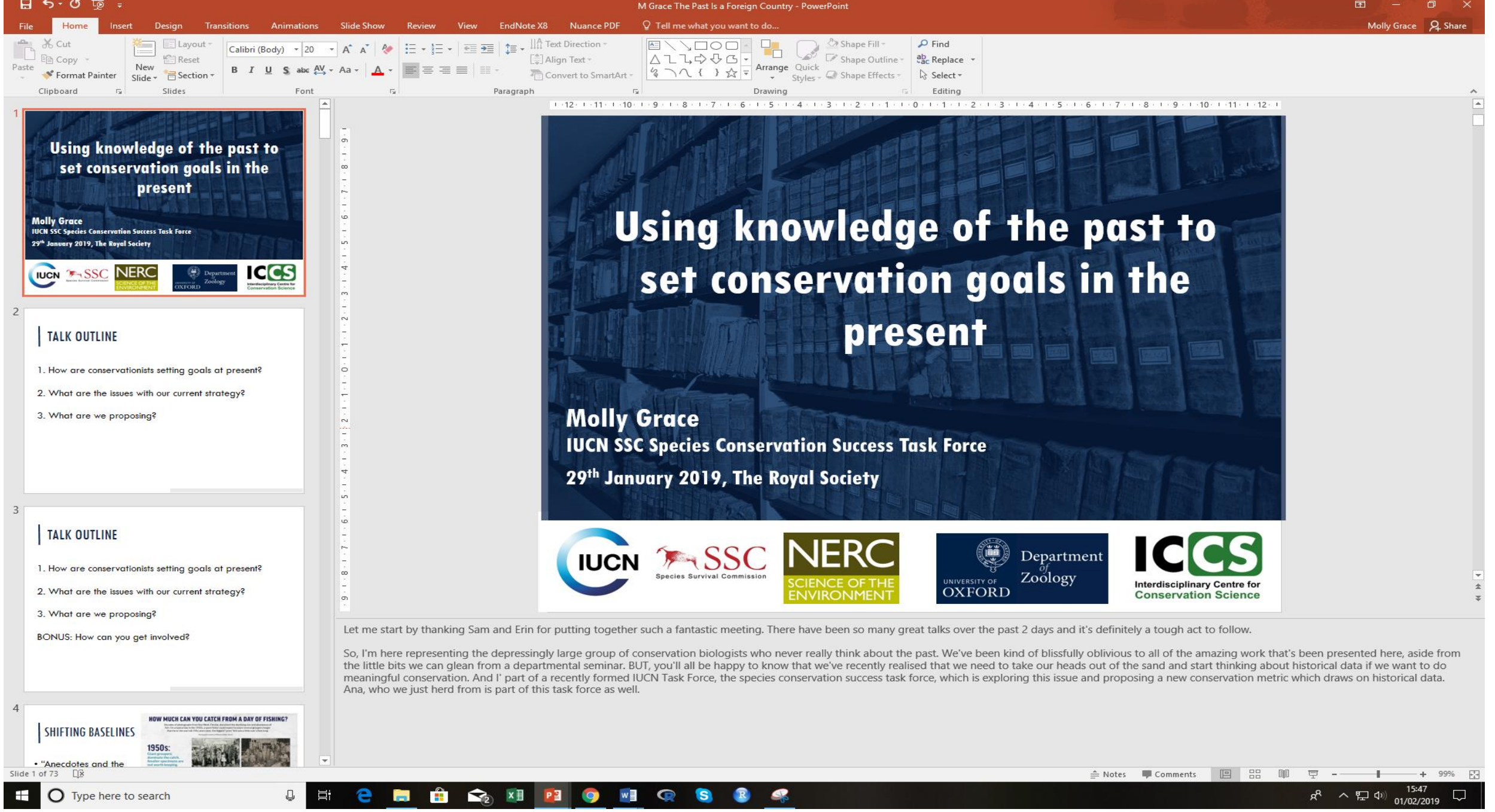
Speaking Up Without Freaking Out

https://www.youtube.com/watch?v=XIXvKKEQQJo

TIPS TO OVERCOME NERVOUSNESS- BEFORE

Practise:

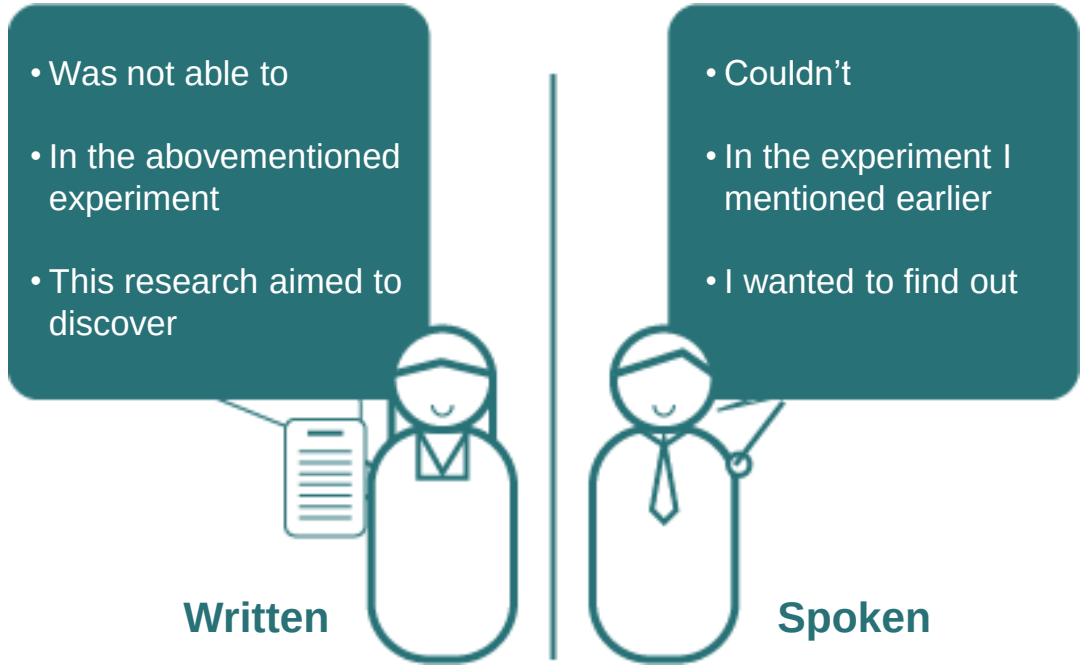
- Write down what you want to say



Use the "Presenter Notes" space to your advantage

TIPS TO OVERCOME NERVOUSNESS- BEFORE

- Language should be less formal than in a paper



TIPS TO OVERCOME NERVOUSNESS- BEFORE

Practise:

- Practise OUT LOUD, preferably to others (muscle memory)
- "UM"/ Too fast/ Too quiet

TIPS TO OVERCOME NERVOUSNESS- BEFORE

Practising in front of others is SCARY

…but SO necessary

TIPS TO OVERCOME NERVOUSNESS- BEFORE

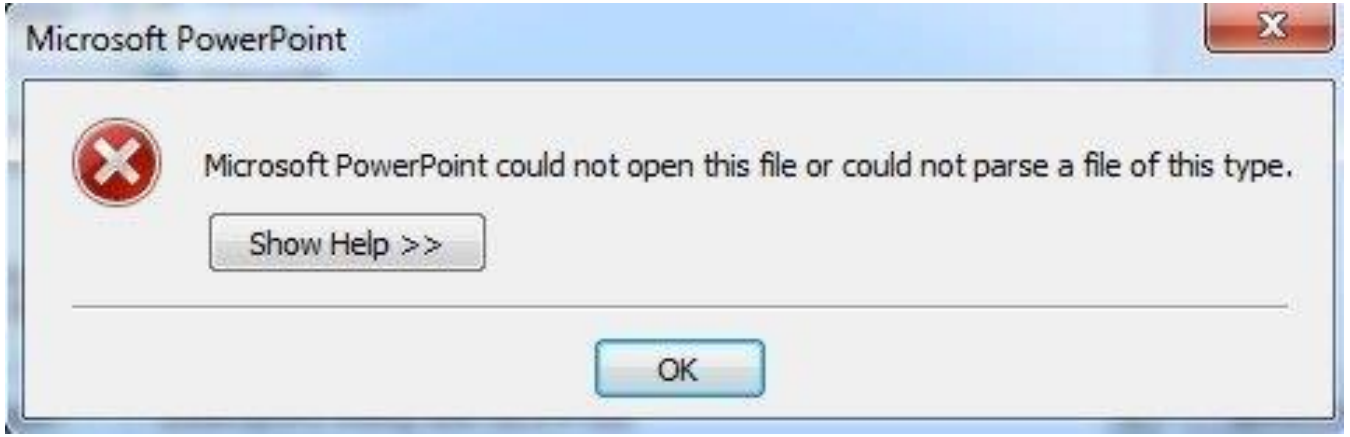
Practise:

- Also helps with TIMING
  - Helps you- clearer, more efficient presentation
  - Considerate of others

TIPS TO OVERCOME NERVOUSNESS- BEFORE

Come prepared:

- Test with equipment at site
- Have a backup
- Online presenting (familiarise, tech check)

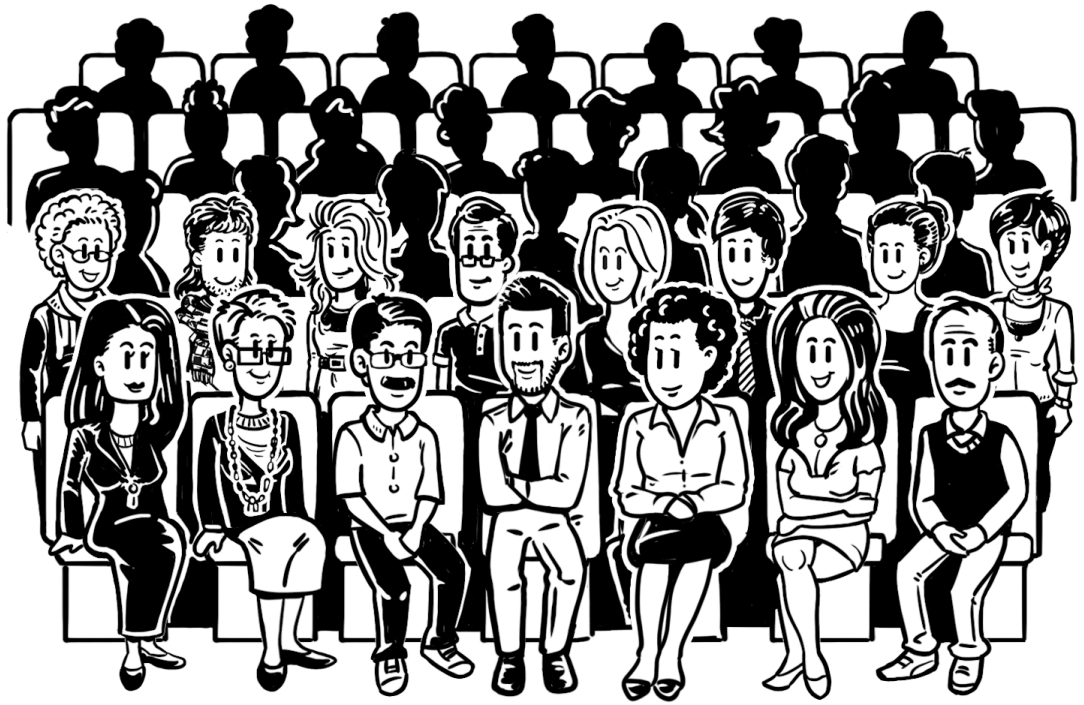


TIPS TO OVERCOME NERVOUSNESS- DURING

During the presentation:

- Introduce yourself

Most people forget to do this, but it makes a HUGE difference



TIPS TO OVERCOME NERVOUSNESS- DURING

Put audience at ease by including phrases that signal

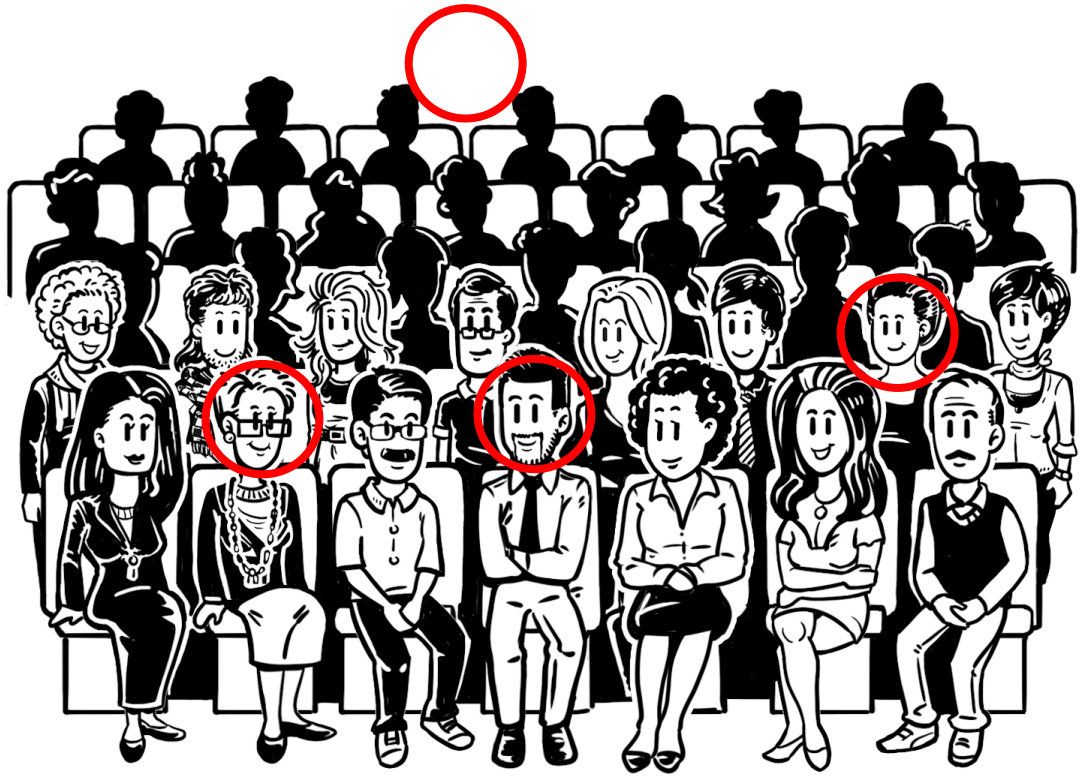
-Intro

-Conclusion

TIPS TO OVERCOME NERVOUSNESS- DURING

During the presentation:

- Focal point(s)



TIPS TO OVERCOME NERVOUSNESS

Presenting in a language that is not your native language:

- ***People are impressed, not critical***
- Practice even more important
- Reading from notes is OK
  - Notes in a virtual presentation- hack

Presentation Skills_Molly_Zoom - PowerPoint

File Home Insert Design Transitions Animations Slide Show Review View Tell me what you want to do...

From Beginning | From Current Slide | Present Online | Custom Slide Show | Set Up Slide Show | Hide Slide | Rehearse Timings | Record Slide Show | Start Slide Show | Set Up

Play Narrations
Use Timings
Show Media Controls

Monitor: Automatic
Use Presenter View

Monitors

32
33
34
35

Set Up Show

Show type
- Presented by a speaker (full screen)
- Browsed by an individual (window)
- Browsed at a kiosk (full screen)

Show options
- Loop continuously until 'Esc'
- Show without narration
- Show without animation
- Disable hardware graphics acceleration
- Pen color:
- Laser pointer color:

Show slides
- All
- From: 1 To: 110
- Custom show:

Advance slides
- Manually
- Using timings, if present

Multiple monitors
- Slide show monitor: Automatic
- Resolution: Use Current Resolution
- Use Presenter View

OK Cancel

OXFORD MATHEMATICAL, PHYSICAL AND LIFE SCIENCES DIVISION

What they see

PowerPoint Slide Show - [Presentation Skills_Molly_Zoom] - PowerPoint

TIPS TO OVERCOME NERVOUSNESS

Presenting in a language that is not your native language:

- ***People are impressed, not critical***

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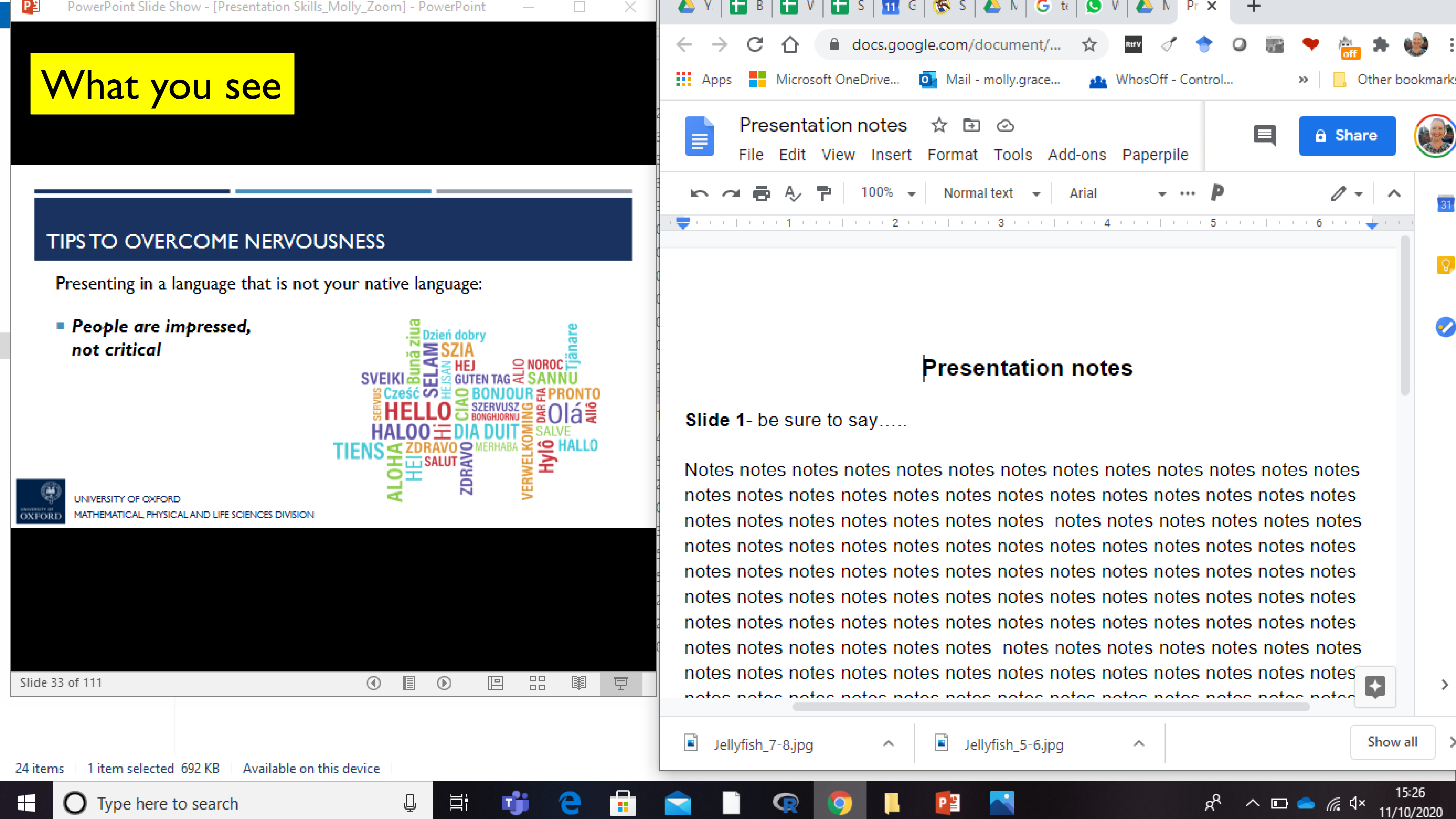
Slide 1 of 26


PowerPoint Slide Show - [Presentation Skills_Molly_Zoom] - PowerPoint
What you see
TIPS TO OVERCOME NERVOUSNESS
Presenting in a language that is not your native language:
People are impressed, not critical
Dzień dobry
SZIA
HEJ
NOROC
Tjänare
SVEIKI
Bună ziua
SELAM
GUTEN TAG
SANNU
Cześć
BONJOUR
PRONTO
HELLO
CIAO
SZERVUSZ
Olá
Allô
HALOO
DIA DUIT
SALVE
TIENS
ZDRAVO
MERHABA
HALLO
ALOHA
SALUT
ZDRAVO
VERWELKOMING
Hyvä
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Slide 33 of 111
24 items
1 item selected 692 KB
Available on this device
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Jellyfish_7-8.jpg
Jellyfish_5-6.jpg
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11/10/2020

TIPS TO OVERCOME NERVOUSNESS

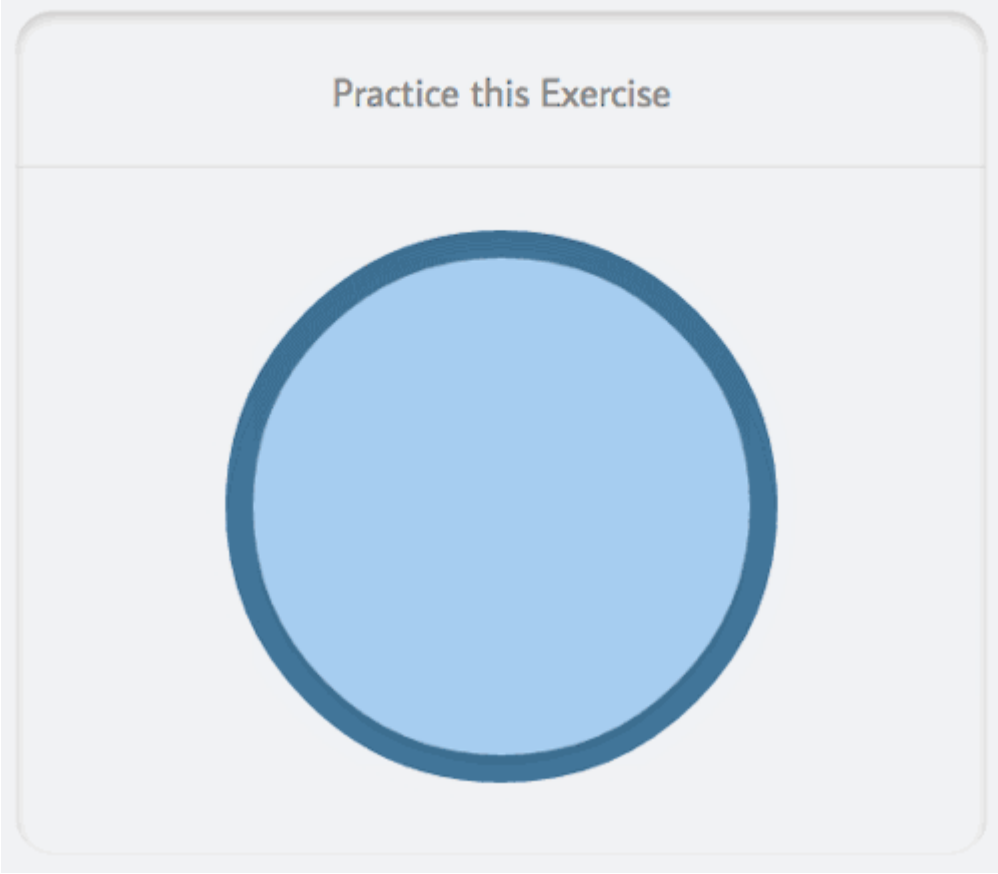
Answering questions:

- Questions are GOOD
- Rephrase → respond
- It's OK to say "I don't know"

TIPS TO OVERCOME NERVOUSNESS

Controlling your physiological response:

- Wake up your body and voice
  - Get rid of nervous energy
- BREATHE
- Hydration



PRESENTATION PRACTICE (BREAKOUT ROOMS)

3-minute presentation:

- Introduce yourself
- What do you do here at Oxford?
- What do you find most fascinating about your work?
- Conclusion

Prep:

1. Write down what you plan to say
2. Read it out loud to yourself so that you hear how it flows and time yourself. Make any necessary edits.
3. Read it to yourself out loud again!

PRESENTATION PRACTICE (BREAKOUT ROOMS)

Group members

1. Give one CONSTRUCTIVE comment on how they might improve in future presentations

PRESENTATION PRACTICE (BREAKOUT ROOMS)

PRESENTATION TIME!

(3 minutes each)

PRESENTATION DESIGN

Photo credit :The Howard League

WHAT PROPORTION OF TALKS DID YOU ACTUALLY ENJOY?

PRESENTATION DESIGN

CAREER FEATURE · 23 AUGUST 2018

Prioritize the needs of the audience when giving a presentation

Speakers inadvertently prepare presentations for themselves rather than their audiences. A few mental exercises can help presenters to avoid this pitfall.

David Rubenson

nature
International journal of science

THINK ABOUT THE AUDIENCE

- Novels, movies, TV- capture our attention with conflict or mystery
- Story = flashy?
  - Tap into psychology
- Purpose of research is not to create a good story, BUT

Photo credit : ProWritingAid

TELLING STORIES: HOW WOULD WE BEGIN A TALK ABOUT THIS RESEARCH?

We are trying to optimize the current 21-step synthesis of Talinexatol to improve its overall yield from around 5% to 20% or higher. The two avenues we are exploring are (1) optimising the lower yields steps, or (2) developing an entirely new pathway to the target molecule.

Credit : Sarnecka Lab Blog

Does anyone know what this is? Right, it's a jellyfish. It's actually the rare, deep-sea jellyfish Scyphozoa talinexae, and right there [pointing to picture], inside its gooey little gut, is a substance called Talinexatol, which is amazingly effective at fighting cancers of the mouth and foot in humans. The problem is, this guy is so hard to find and lives so deep in the ocean, we just can't get enough Talinexatol for medical use.

Credit : Sarnecka Lab Blog

https://pixabay.com/en/chemist-laboratory-periodic-system-3014142/

The good news is, it's possible to make Talinexatol in the lab.

Credit : Sarnecka Lab Blog

https://pixabay.com/en/laboratory-analysis-chemistry-2815640/

The bad news is, it's a very long process. Not only time-consuming but also labor-intensive, super expensive and not very efficient.

Credit : Sarnecka Lab Blog

Today I'm going to tell you how we're optimizing the current 21-step synthesis of Talinexatol to improve its overall yield from around 5% to 20% or higher, which should make it practical to produce in the quantities needed to treat cancer.

Credit : Sarnecka Lab Blog

THINK ABOUT THE AUDIENCE

- Start with the problem/question and resolve it by the end
- Have one key point per slide (avoid information overload)
- What do you know that they don't?
  - Practice helps with this!
- Not just "WHAT"

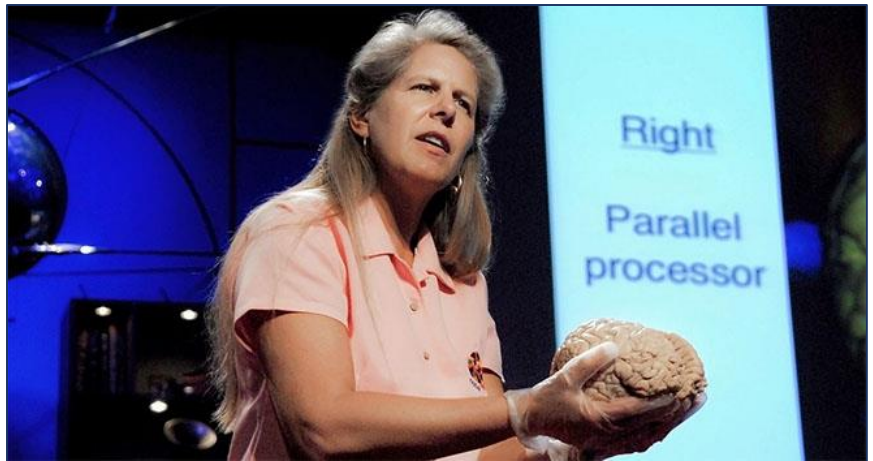
THINK ABOUT THE AUDIENCE

- **What**: What has happened with this research? What were the methods and what were the results and conclusions?
- **Who:** Who has conducted this research, who will benefit from it and who has funded it?
- **Where**: Where did this research take place, at which organisation/s and geographical location?
- **When**: When did this take place, when did the project start and when did it finish?
- **Why**: Why did this research happen? Why was there a need for it?

INDIVIDUAL EXERCISE: FINDING THE QUESTION

- Think about the next talk you're going to give. Write down the "what", "when", "why", "where"- what research are you presenting?
- Now think abut the "why"- how would you frame your talk with a problem or question to get the audience engaged? Write the strategy down.

THINKING ABOUT THE AUDIENCE: GOING THE EXTRA MILE?



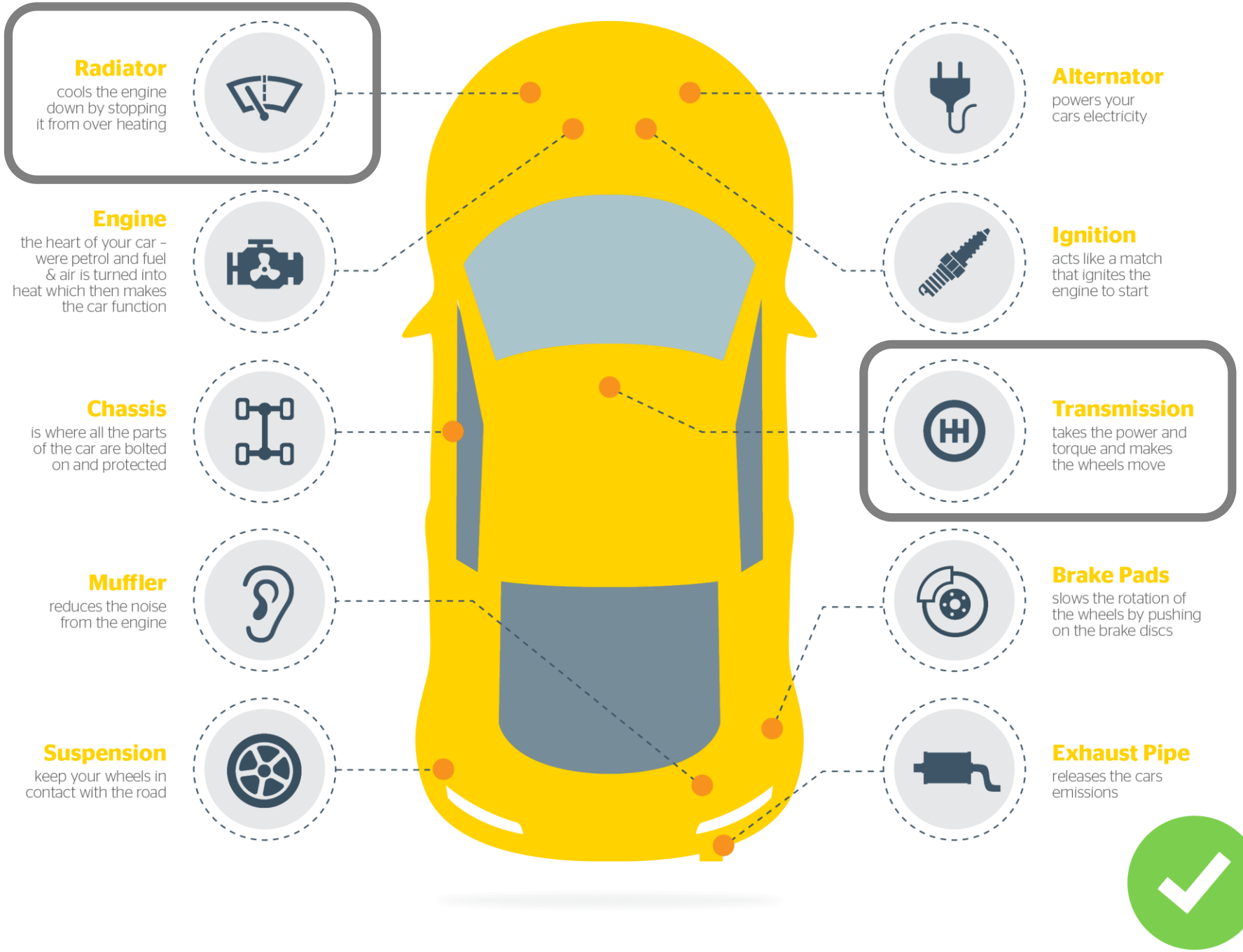
VISUAL DESIGN

VISUAL DOS AND DON'TS

- Limit amount of words and avoid large blocks of text

Hundreds of individual parts make up the essential components of the modern automobile. Much like the human body, these parts are arranged into several systems, each with a different function. Each system is necessary for making the automobile run, keeping it safe, and reducing noise and pollution.

The major systems of an automobile are the engine, fuel system, exhaust system, cooling system, lubrication system, electrical system, transmission, and the chassis. The chassis includes the wheels and tires, the brakes, the suspension system, and the body. These systems will be found in every form of motor vehicle and are designed to interact with and support each other.

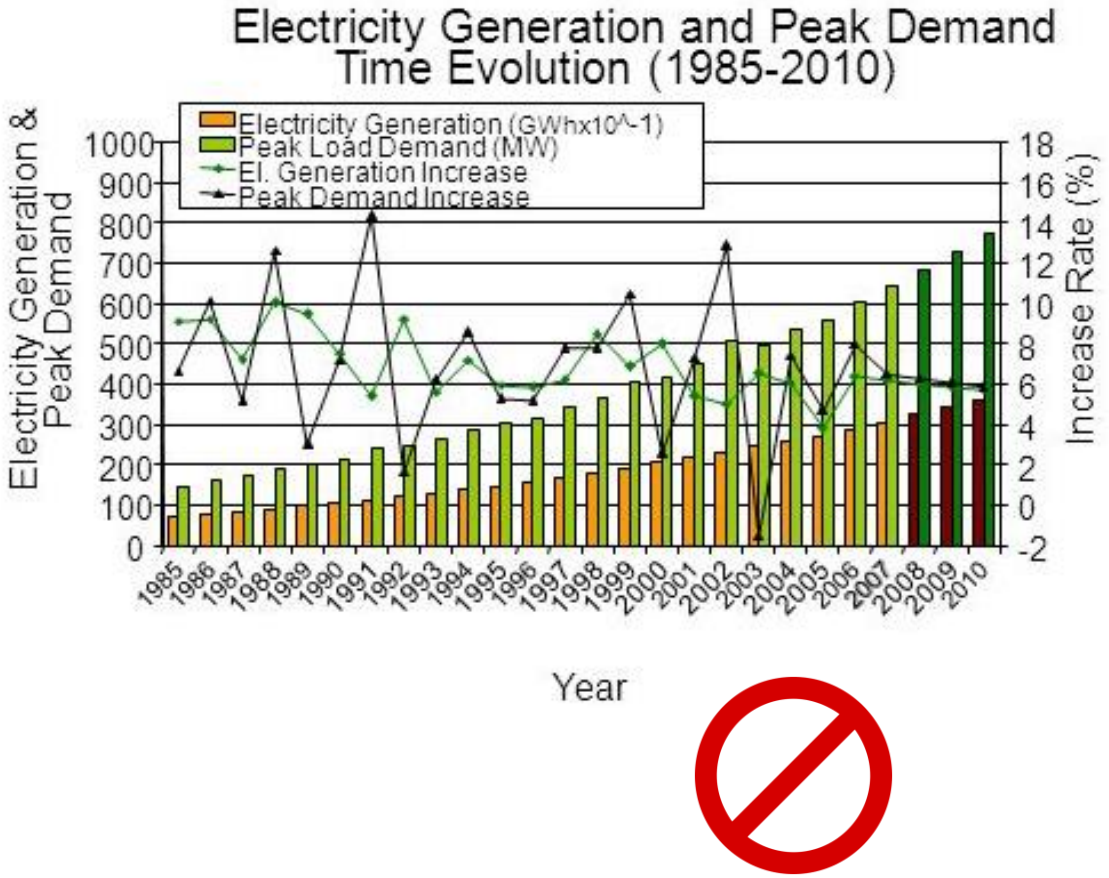

Radiator
cools the engine down by stopping it from over heating
Engine
the heart of your car - were petrol and fuel & air is turned into heat which then makes the car function
Chassis
is where all the parts of the car are bolted on and protected
Muffler
reduces the noise from the engine
Suspension
keep your wheels in contact with the road
Alternator
powers your cars electricity
Ignition
acts like a match that ignites the engine to start
Transmission
takes the power and torque and makes the wheels move
Brake Pads
slows the rotation of the wheels by pushing on the brake discs
Exhaust Pipe
releases the cars emissions

VISUAL DOS AND DON'TS

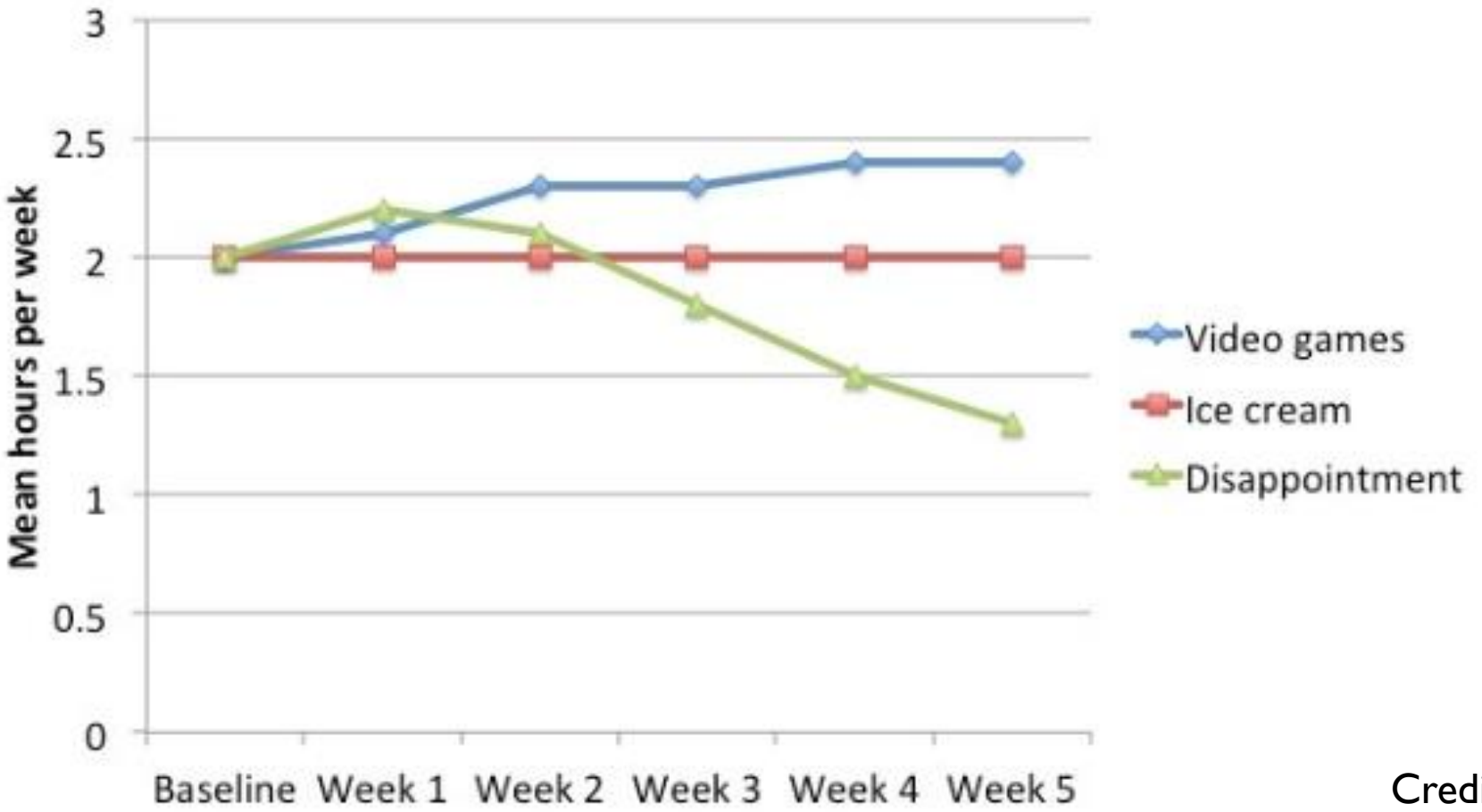
- Limit amount of words and avoid large blocks of text
- Introduce elements piece by piece

AN UNNECESSARILY BUSY SLIDE

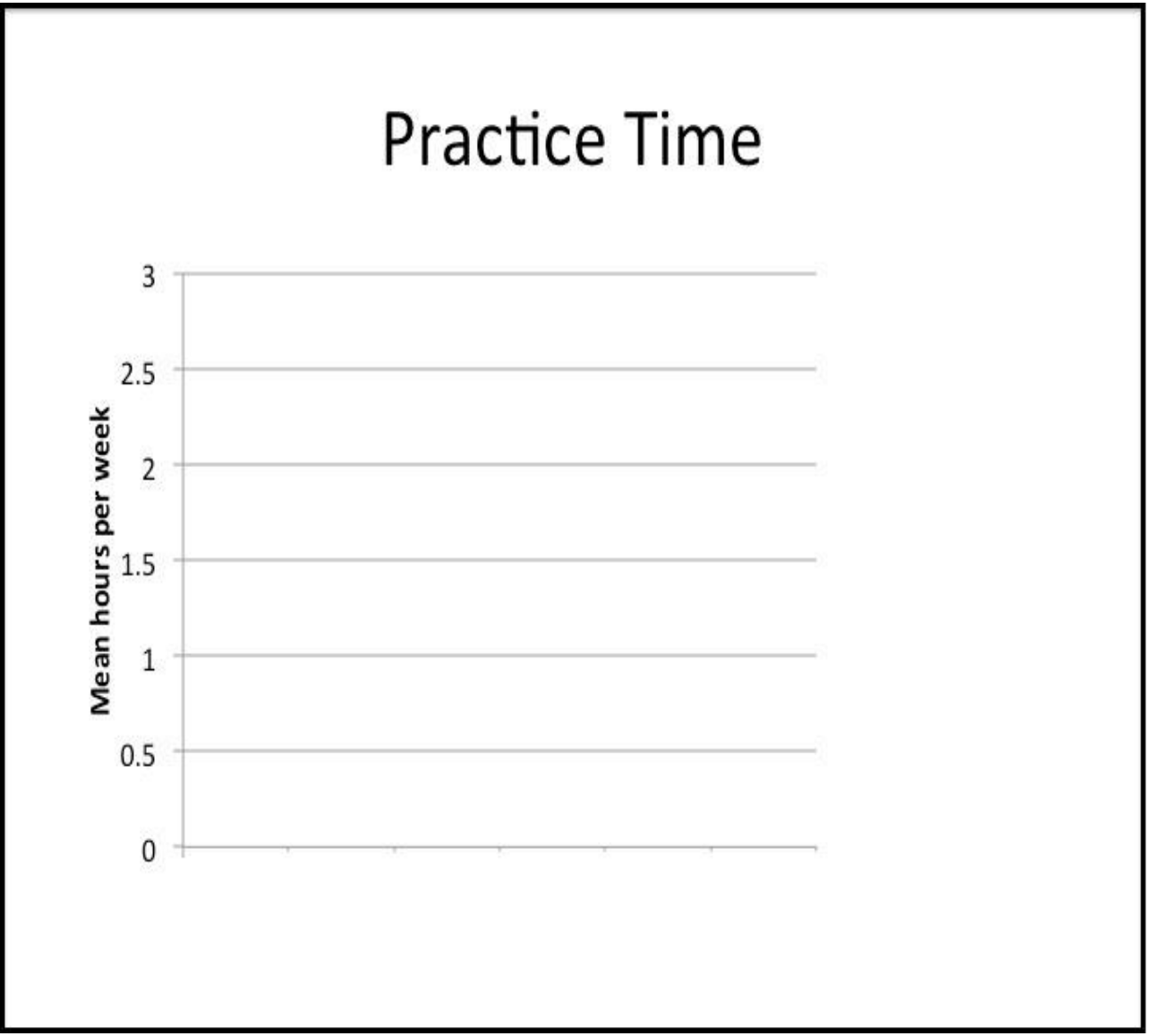
- Demand for electricity has increased over time
- Generation of electricity has increased to meet demand
- The increase rate has more than tripled
- Peak demand has increased over time
- But the year on year increase fluctuates over time



Practice Time

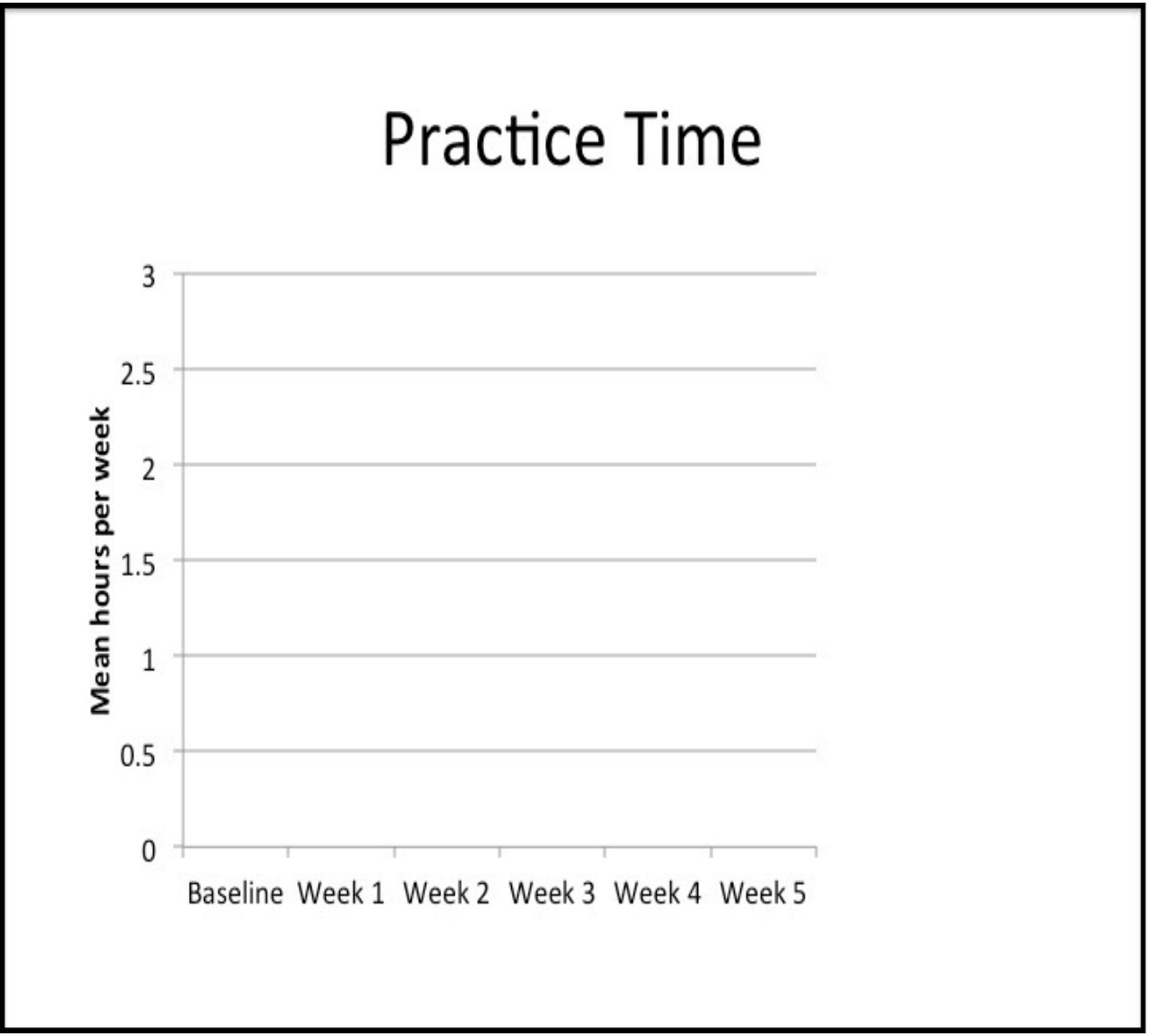


Credit: Sarnecka Lab Blog



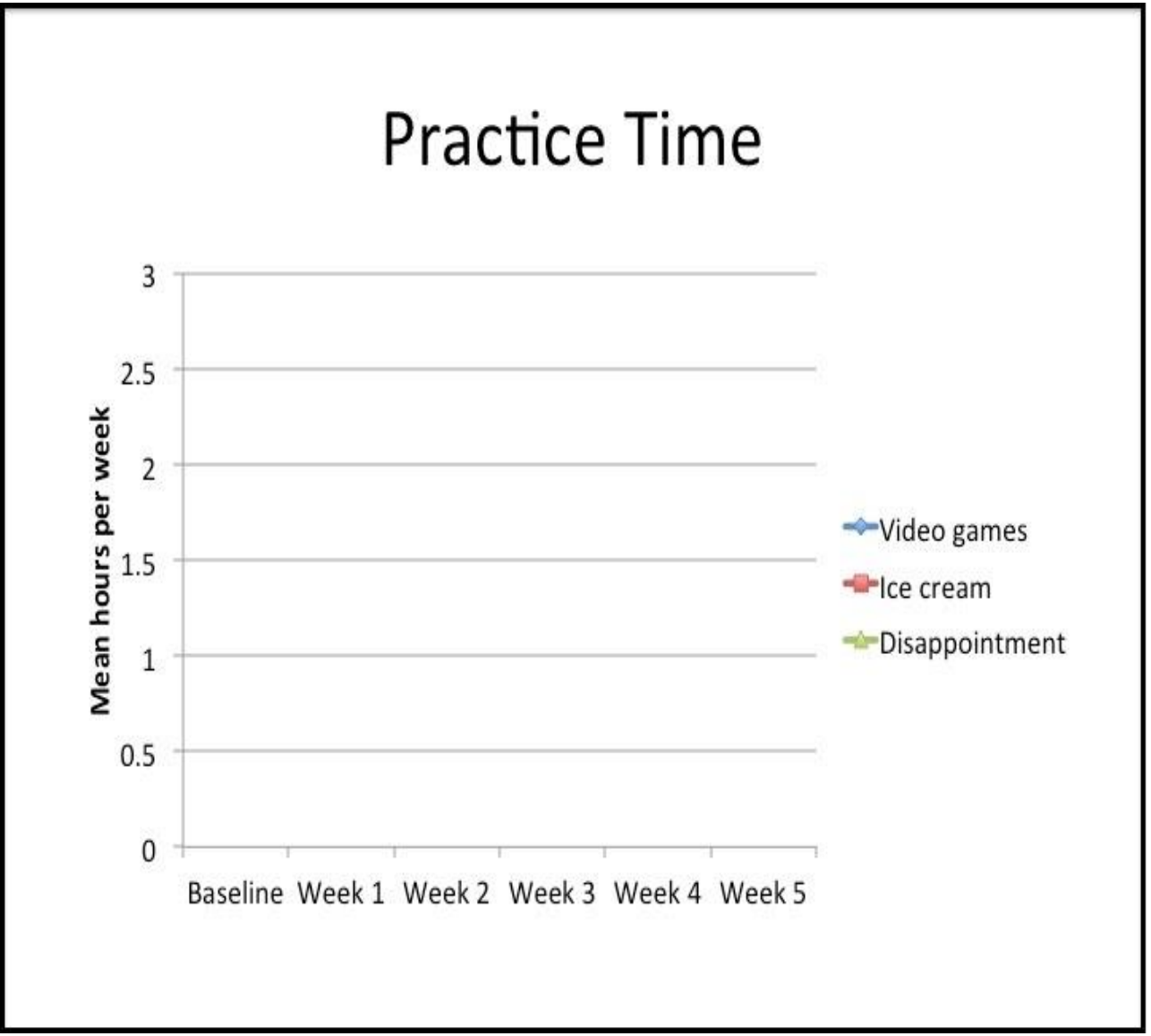
Our main outcome measure was practice time– the number of hours each student spent practicing the violin each week.

Credit: Sarnecka Lab Blog



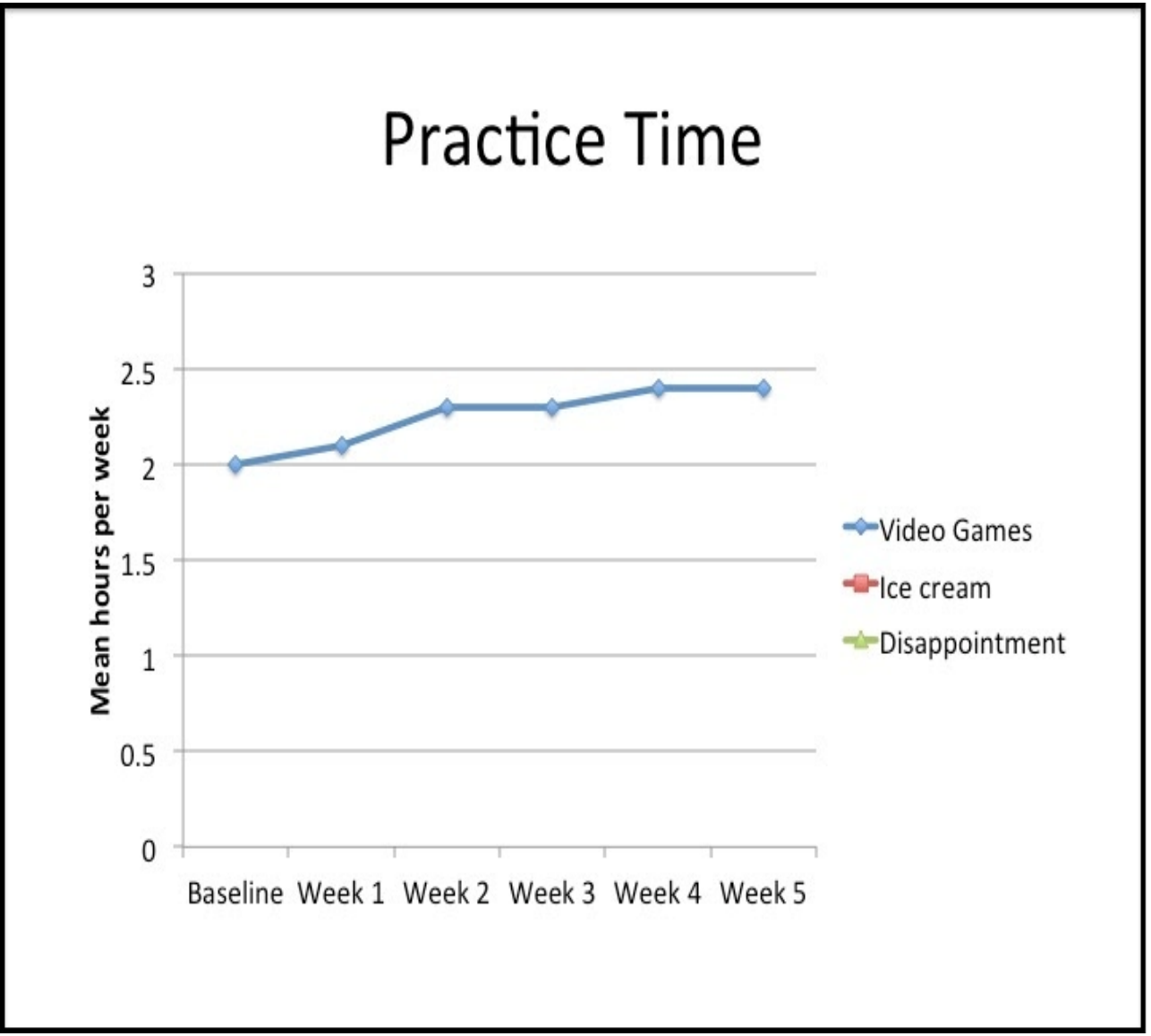
We asked them to record their practice time for one week as a baseline measure, and then we followed each family for five weeks.

Credit: Sarnecka Lab Blog



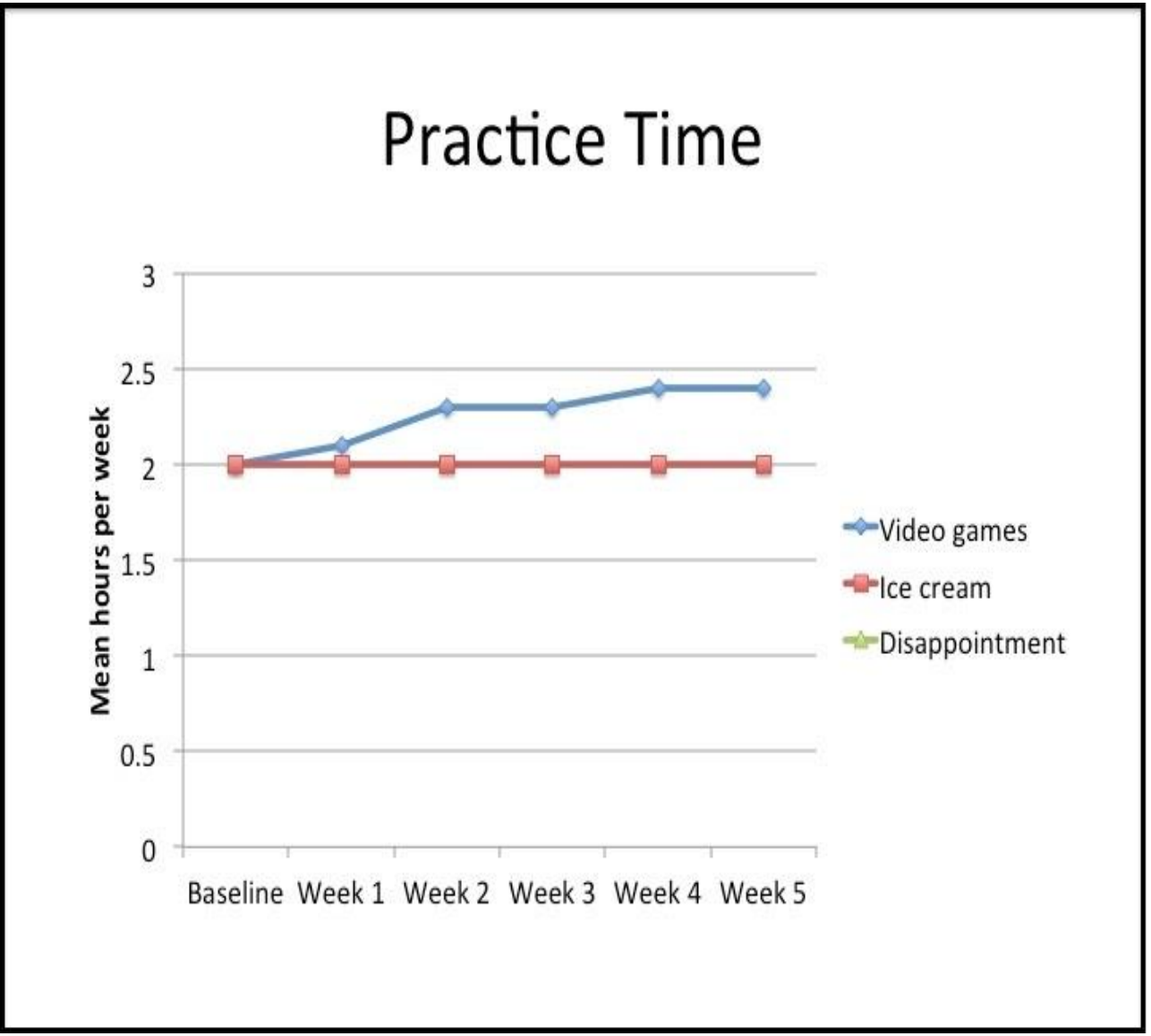
Student 1 earned 10 minutes of video games for every 10 minutes of violin practice; Student 2 earned a spoonful of ice cream for every ten minutes of practice; and Student 3 was told that her parents would be very disappointed in her if she didn't practice for at least two hours.

Credit: Sarnecka Lab Blog



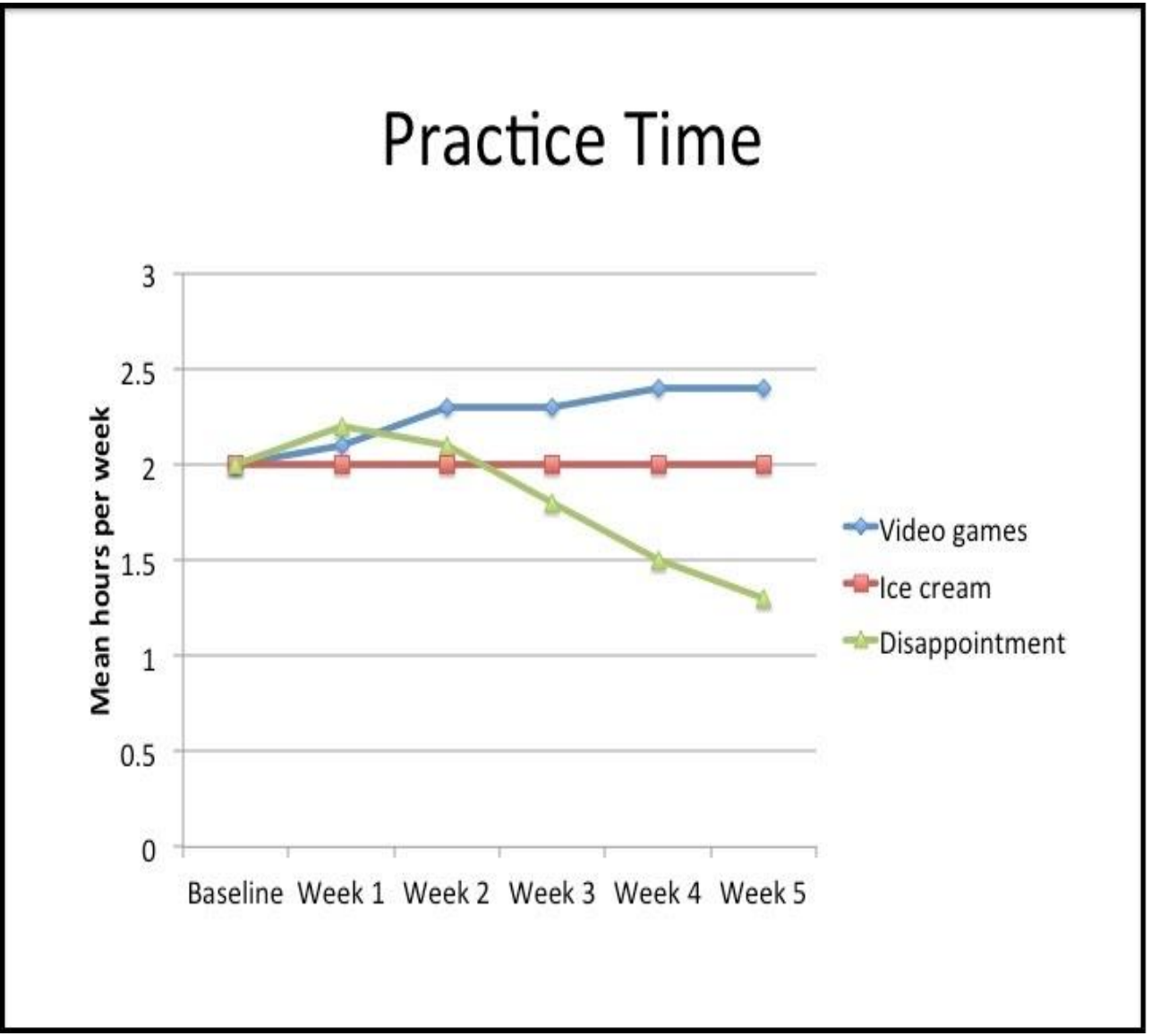
Student 1 kept up her practice over the five-week period, of the study, and even increased it from 2 hours to almost 2.5 hours by the end.

Credit: Sarnecka Lab Blog



Student 2 stayed right around two hours practice time per week.

Credit: Sarnecka Lab Blog



Student 3 practiced slightly more than the other two for the first week, but her practice time steadily decreased over the period of the study, and by the end she was practicing only about 1 hour and 20 minutes per week.

Credit: Sarnecka Lab Blog

VISUAL DOS AND DON'TS

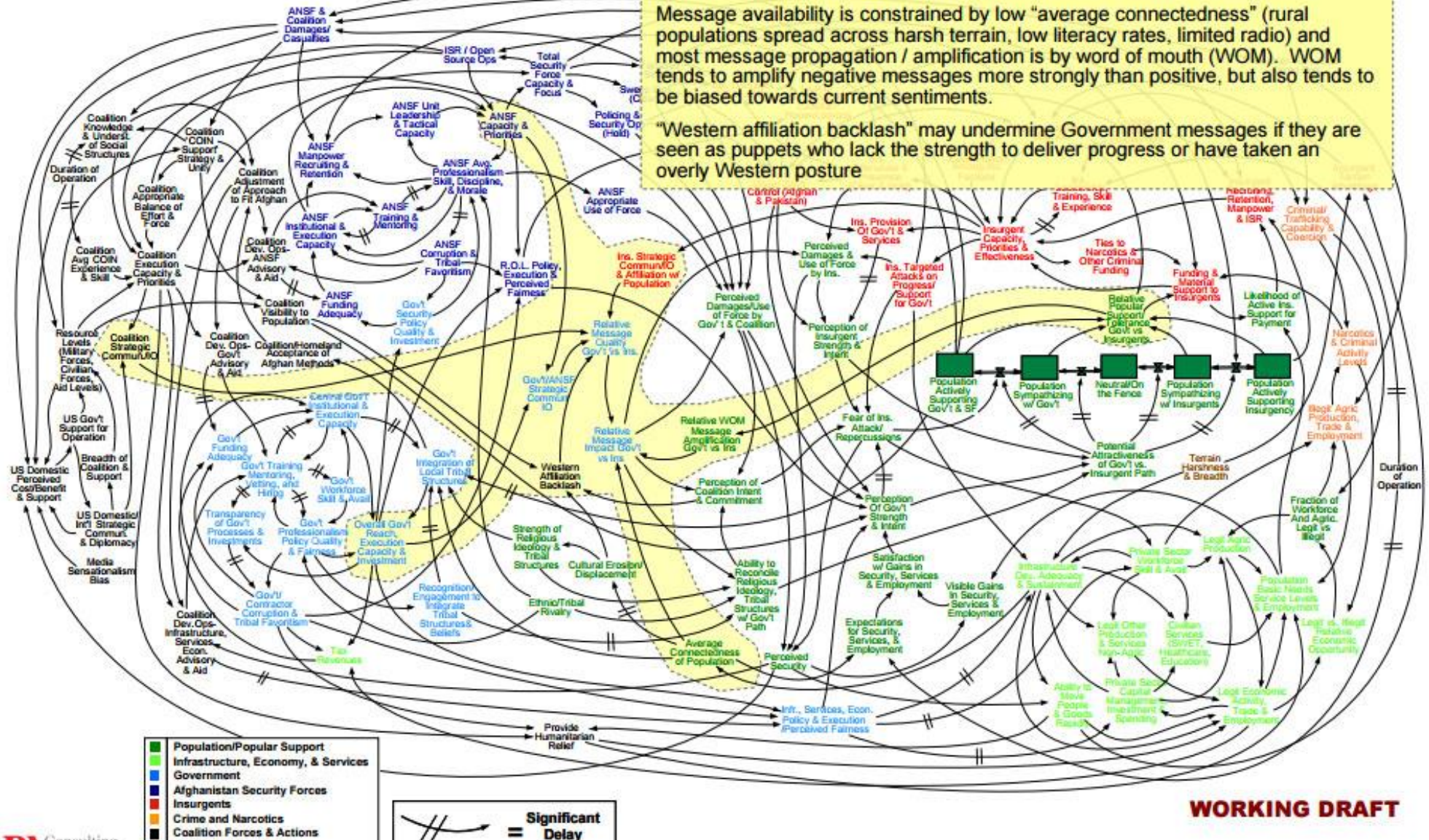
- Limit amount of words and avoid large blocks of text
- Introduce elements piece by piece
- Font size must be readable, even (especially) in figure labels/axes

Afghanistan Stability / COIN Dynamics – Claim the Information Initiative

Claim the Information Initiative: "Message" quality and availability impact who is relatively more effective in influencing the population. Government message quality has been stronger relative to insurgent factions (who have typically not made the effort or been effective in aligning with civilian beliefs), but lack of progress has undermined message credibility.

Message availability is constrained by low "average connectedness" (rural populations spread across harsh terrain, low literacy rates, limited radio) and most message propagation / amplification is by word of mouth (WOM). WOM tends to amplify negative messages more strongly than positive, but also tends to be biased towards current sentiments.

"Western affiliation backlash" may undermine Government messages if they are seen as puppets who lack the strength to deliver progress or have taken an overly Western posture



WORKING DRAFT

VISUAL DOS AND DON'TS

- Limit amount of words and avoid large blocks of text
- Introduce elements piece by piece
- Font size must be readable, even (especially) in figure labels/axes
- You MUST adapt figures for a presentation

Table 4.5. Candidate model set for overall abundance of anurans.

model	df	AICc	ΔAICc	Akaike weight
glm(abundance ~ treatment + site + humidity, family=poisson)	6	131	0	0.999
glm(abundance ~ treatment*site + humidity, family=poisson)	10	145	14.2	0.000826
glm(abundance ~1, family=poisson)	1	154	23.3	8.93E-06
glm(abundance ~ treatment, family=poisson)	3	155	24.0	6.19E-06
glm(abundance ~ site, family=poisson)	3	159	28.1	8.06E-07
glm(abundance ~ treatment + site + temp, family=poisson)	6	160	29.3	4.42E-07
glm(abundance ~ treatment + site, family=poisson)	5	160	29.7	3.48E-07
glm(abundance ~ treatment*site, family=poisson)	9	166	35.4	2.06E-08
glm(abundance ~ treatment*site + temp, family=poisson)	10	170	38.9	3.49E-09
glm(abundance ~ treatment*site*humidity, family=poisson)	17	204	73.3	1.22E-16

Grace et al. 2018

FACTORS EXPLAINING ABUNDANCE

model	df	AICc	ΔAICc	Akaike weight
treatment + site + humidity	6	131	0	0.999
treatment*site + humidity	10	145	14.2	8.26E-04
1 (null)	1	154	23.3	8.93E-06
treatment	3	155	24.0	6.19E-06
site	3	159	28.1	8.06E-07
treatment + site + temp	6	160	29.3	4.42E-07
treatment + site	5	160	29.7	3.48E-07
treatment*site	9	166	35.4	2.06E-08
treatment*site + temp	10	170	38.9	3.49E-09
treatment*site*humidity	17	204	73.3	1.22E-16

Grace et al. 2018

As environmental noise increased, the number of birds observed decreased (McClure et al. 2013)

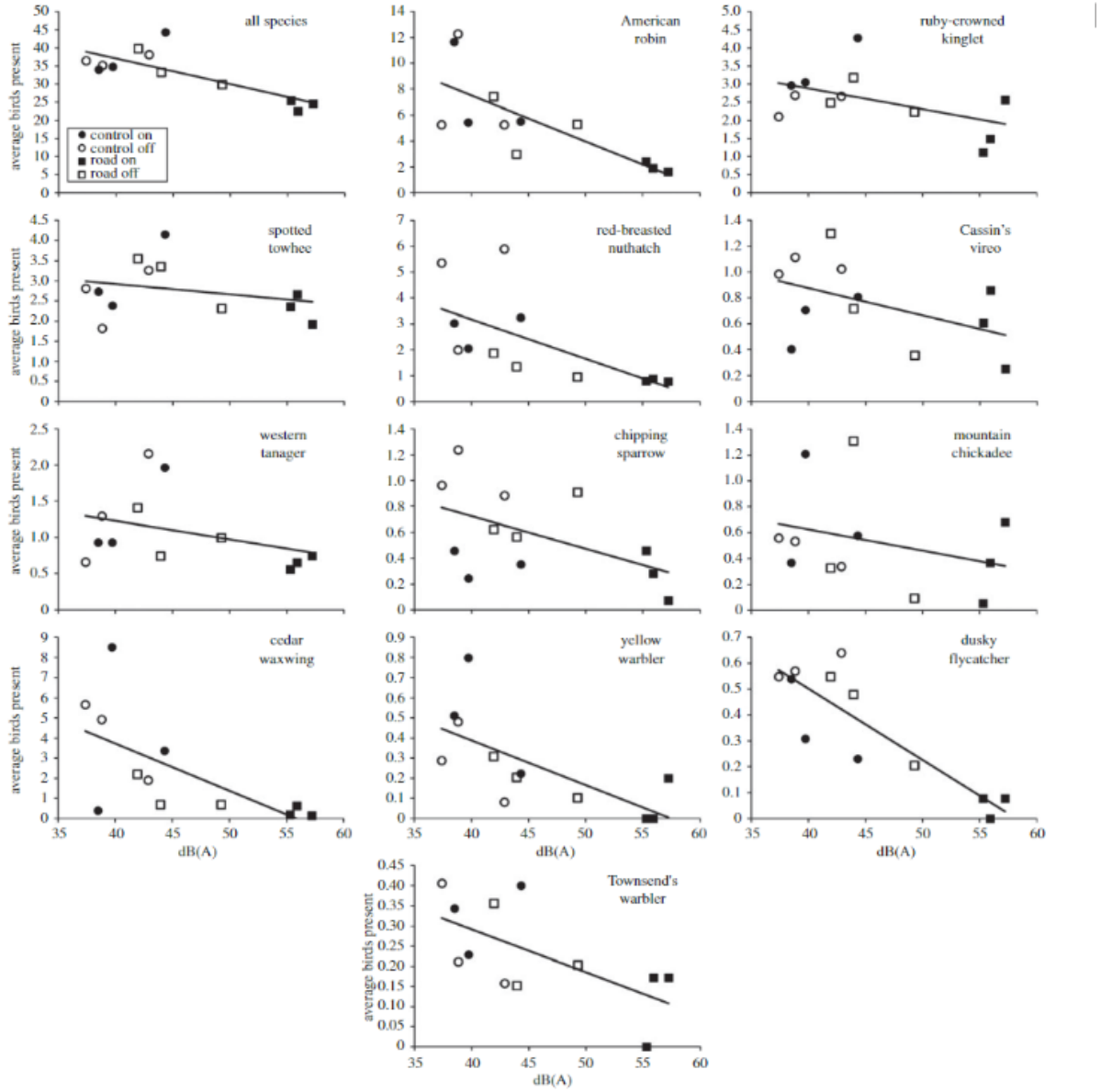
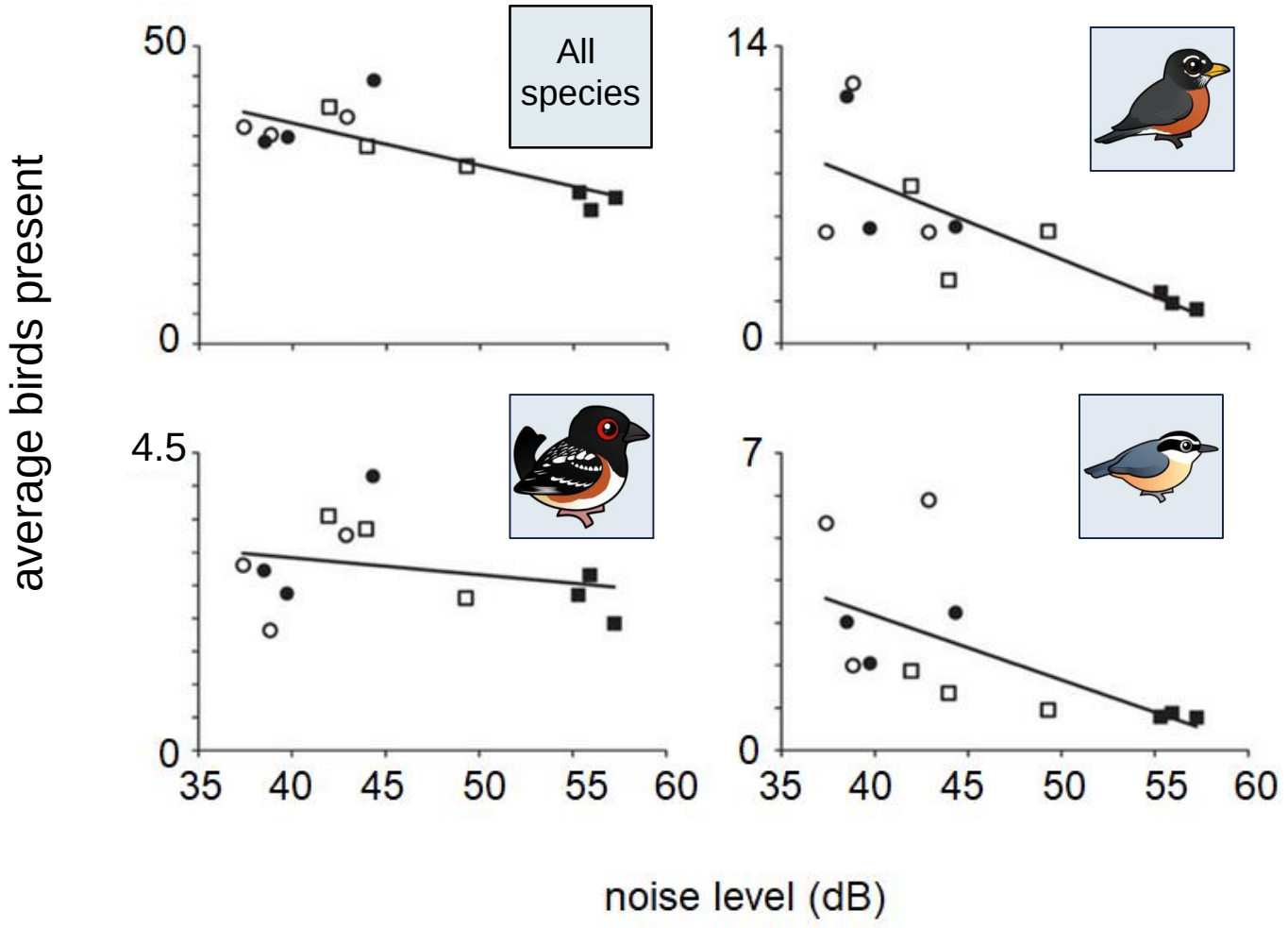


Figure 2. Average numbers of birds present per survey during noise-on and noise-off periods along the phantom road and at control sites in the Boise Foothills in southwestern Idaho. Only species with significant differences in abundance among treatments or background sound levels are shown.

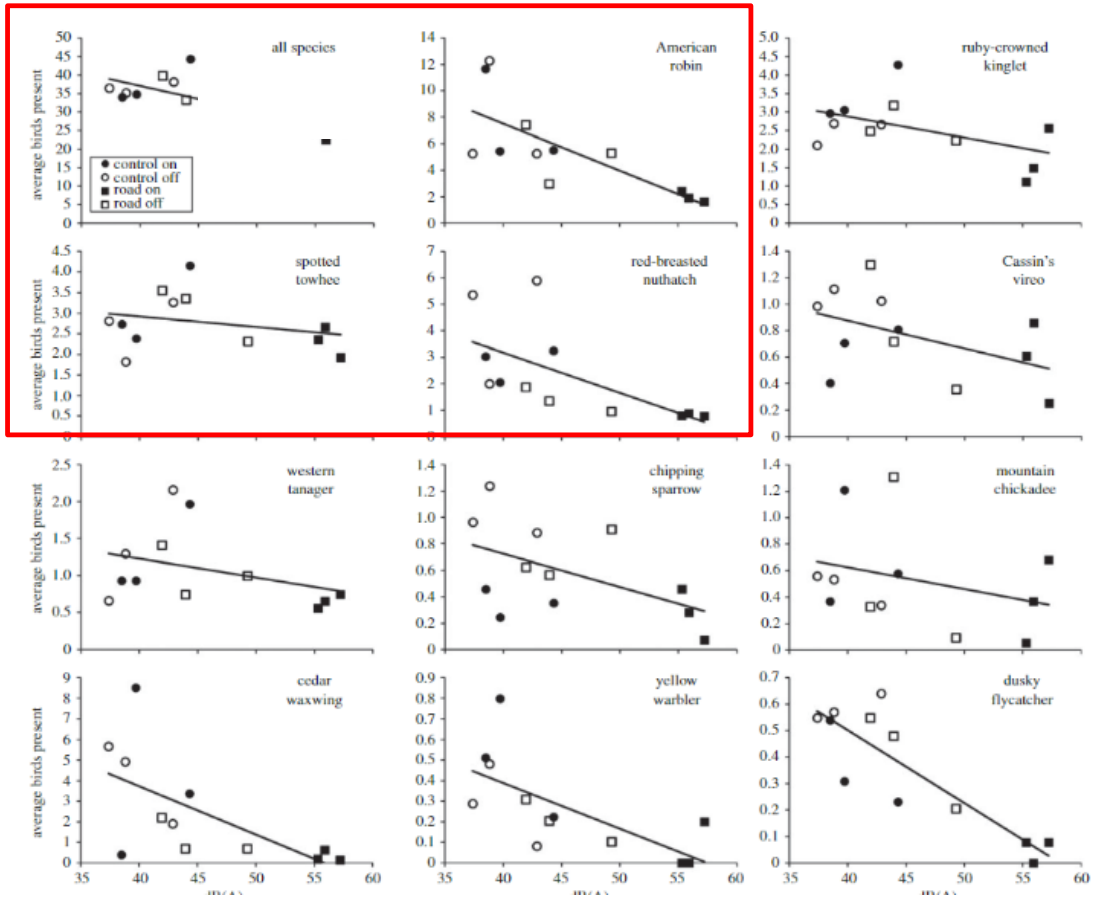
BIRD OBSERVATIONS DECREASED WITH NOISE



McClure et al. 2013

BIRD OBSERVATIONS DECREASED WITH NOISE

- The pattern was the same for all 12 species studied



McClure et al. 2013

GIVING CREDIT WHERE CREDIT IS DUE

ALWAYS cite ideas, figures, and images that aren't yours!

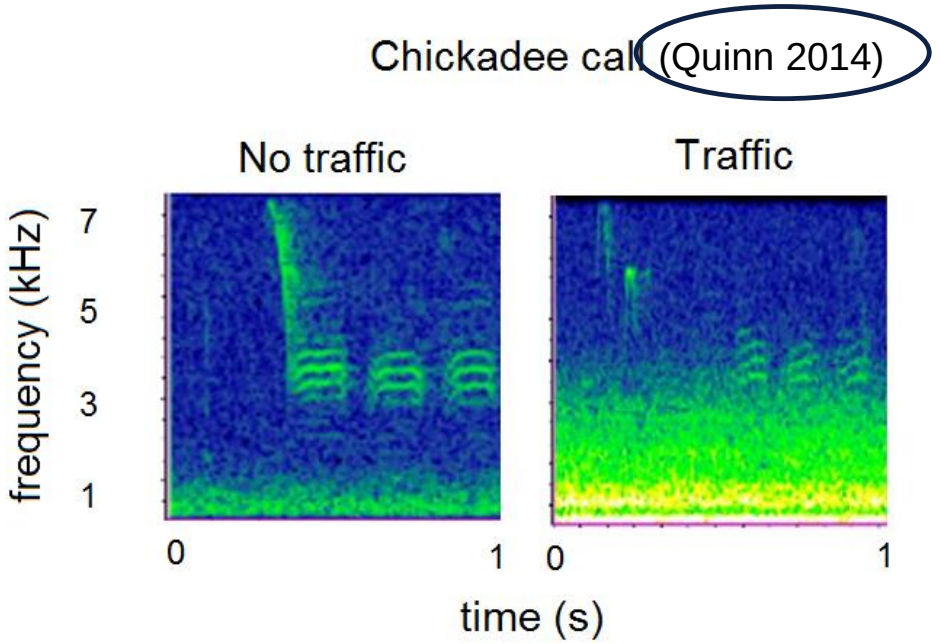


Photo by R.W. van Devender

MAKE IT EASY FOR PEOPLE TO FIND YOU

- Including social media links is becoming commonplace
- Shameless self-promotion works!



QUANTIFYING SPECIES CONSERVATION SUCCESS: THE IUCN GREEN LIST OF SPECIES

Molly Grace

Species Conservation Success Task Force

IUCN SSC Species Survival Commission

@mollykgrace #SpeciesGreenList

NatureEcoEvo
@NatureEcoEvo

Following

Wrapping up the presentations at #rsfossil, @mollykgrace talks about how the forthcoming @IUCN green list—which measures species recovery against a set historic rather than recent baseline—is being put together

The IUCN Green List of Species
The Next Phase in the Evolution of Red Listing The goal of the IUCN Red List of Threatened SpeciesTM is: To provide information and analyses on the status, trend...
iucn.org

7:49 AM - 29 Jan 2019

5 Retweets **6** Likes

1 5 6

Tweet your reply

NatureEcoEvo @NatureEcoEvo · Jan 29
Q&A: what's the point of the green list? Is it attainable given change? @mollykgrace: It helps us define what recovery loo on an arbitrary baseline, and in the short term at least niche available #rsfossil

1 1 3

NatureEcoEvo @NatureEcoEvo · Jan 29
More Q&A. @mollykgrace Green list also has a PR function: status has improved but still within red categories that "mor down the drain". May further incentivise conservation #rsfos

4

Jack Williams
@IceAgeEcologist

Following

.@mollykgrace IUCN developing criteria for 'Green List' of recovered species that are viable and functional within indigenous range. Key Q: what time should be used to set indigenous range? 1500, 1750 likely. Forming a WG, looking for input Akcakayetal 2018 Con Bio #RSfossil

7:55 AM - 29 Jan 2019

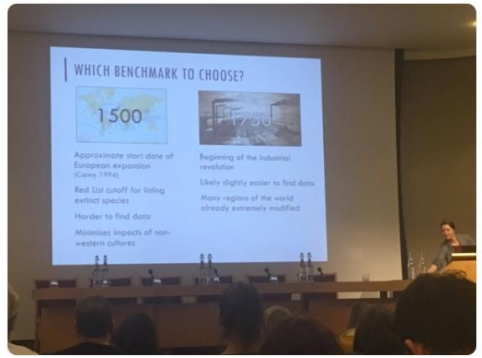
4 Retweets **4** Likes

1 4 4

Christopher Lyon
@ChristophLyon

Following

Very interesting discussion of the traps of shifting population and range baselines for #conservation recovery : @mollykgrace discussing @IUCN Green List #RSfossil @royalsociety



7:59 AM - 29 Jan 2019

1 Retweet **3** Likes

1 3

Jens Svenning
@JCSvenning

Following

.@mollykgrace presents #IUCN work integrating historic baselines into assessments of species recovery, w @AnaSLRodrigues et al. -key is assessing indigenous ranges; for estimates of these for all late-Quaternary mammals check PHYLACINE bit.ly/phylacine #RSfossil #greenlist

8:05 AM - 29 Jan 2019 from London, England

4 Likes

4

A PHRASE TO NEVER SAY….

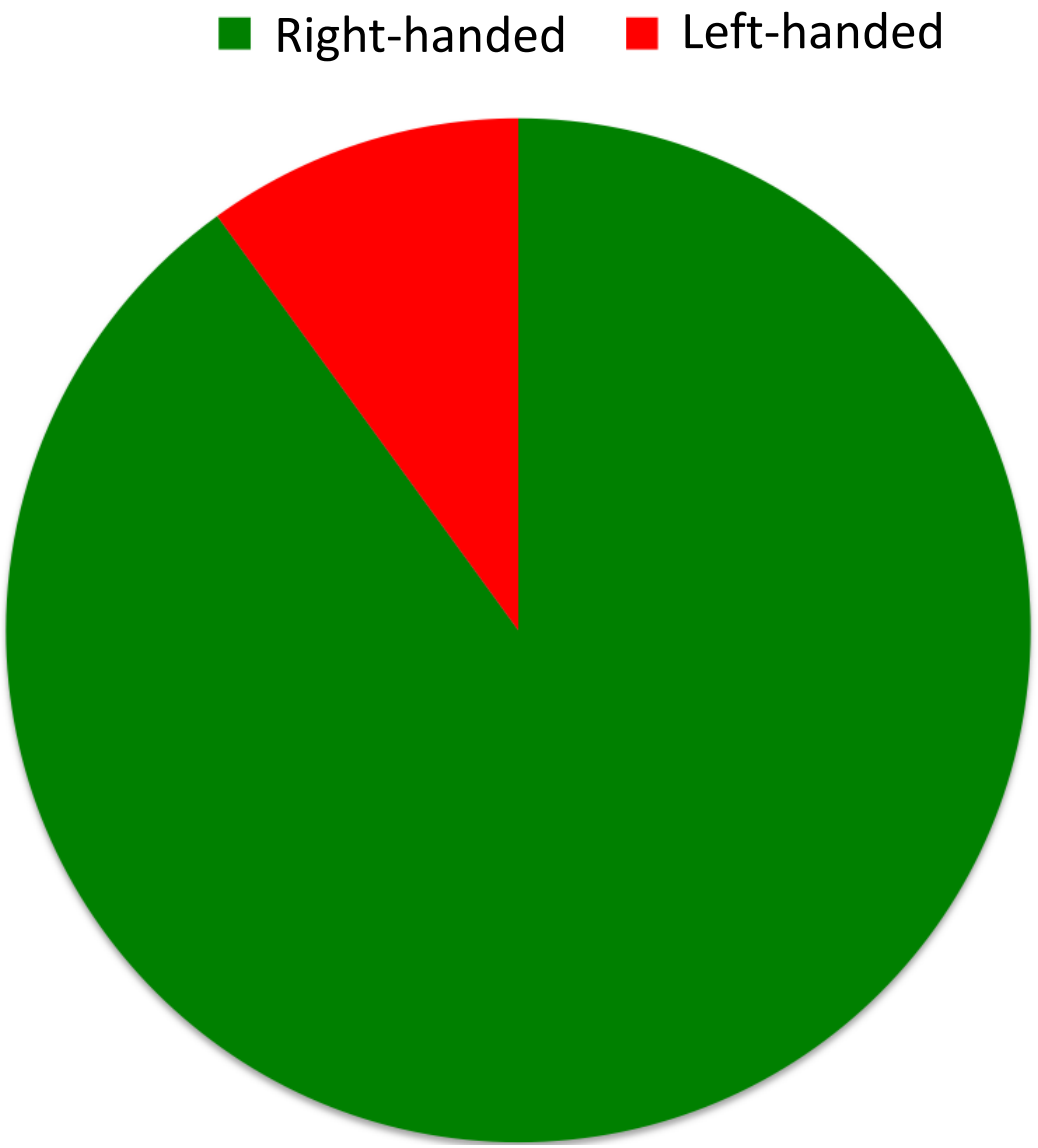
"You don't really need to pay attention to what's on the slide"

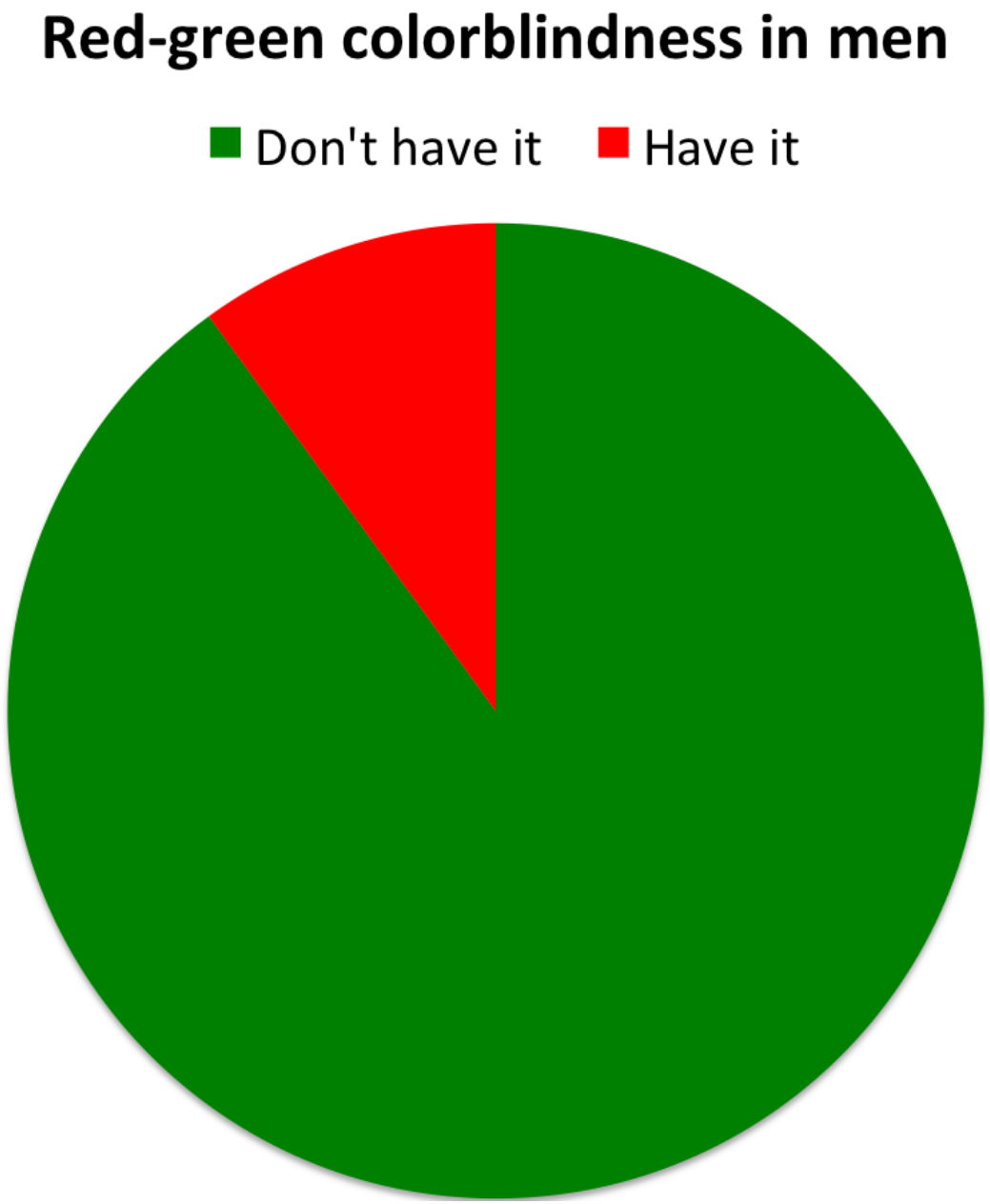
THEN WHY DID YOU MAKE IT??????

BONUS ROUND

What's wrong with the next figure?

Handedness in the global population




Red-green colorblindness in men
Don't have it
Have it

(RE)DESIGN TIME

SLIDE REDESIGN (CHAT OR MICROPHONE)

Our challenge: take a terrible slide and decide how we would change it to make it better.

Chilean Exports

- Fresh fruit leads Chile's export mix - Chile emerges as major supplier of fresh fruit to world market due to ample natural resources, consumer demand for fresh fruit during winter season in U.S. and Europe, and incentives in agricultural policies of Chilean government, encouraging trend toward diversification of exports and development of nontraditional crops - U.S. Dept. of Agriculture, Economic Research Service Report
- Chile is among the developing economies taking advantage of these trends, pursuing a free market economy. This has allowed for diversification through the expansion of fruit production for export, especially to the U.S. and Western Europe. Chile has successfully diversified its agricultural sector to the extent that it is now a major fruit exporting nation. Many countries view Chile's diversification of agriculture as a model to be followed.
- Meanwhile, the U.S. remains the largest single market for Chile's fruit exports. However, increasing demand from the EC and Central and East European countries combined may eventually surpass exports to the U.S., spurring further growth in Chile's exports.
- If you've read this far, your eyes probably hurt and you've been reading this tedious long-winded text instead of listening to me. I'm insulted- can't you see I'm doing a presentation up here? Look at me! Congratulations, however, on having such good eyesight.

Chile is a major global supplier of fresh fruit

Spans many latitudes = suitable conditions for a diverse array of crops

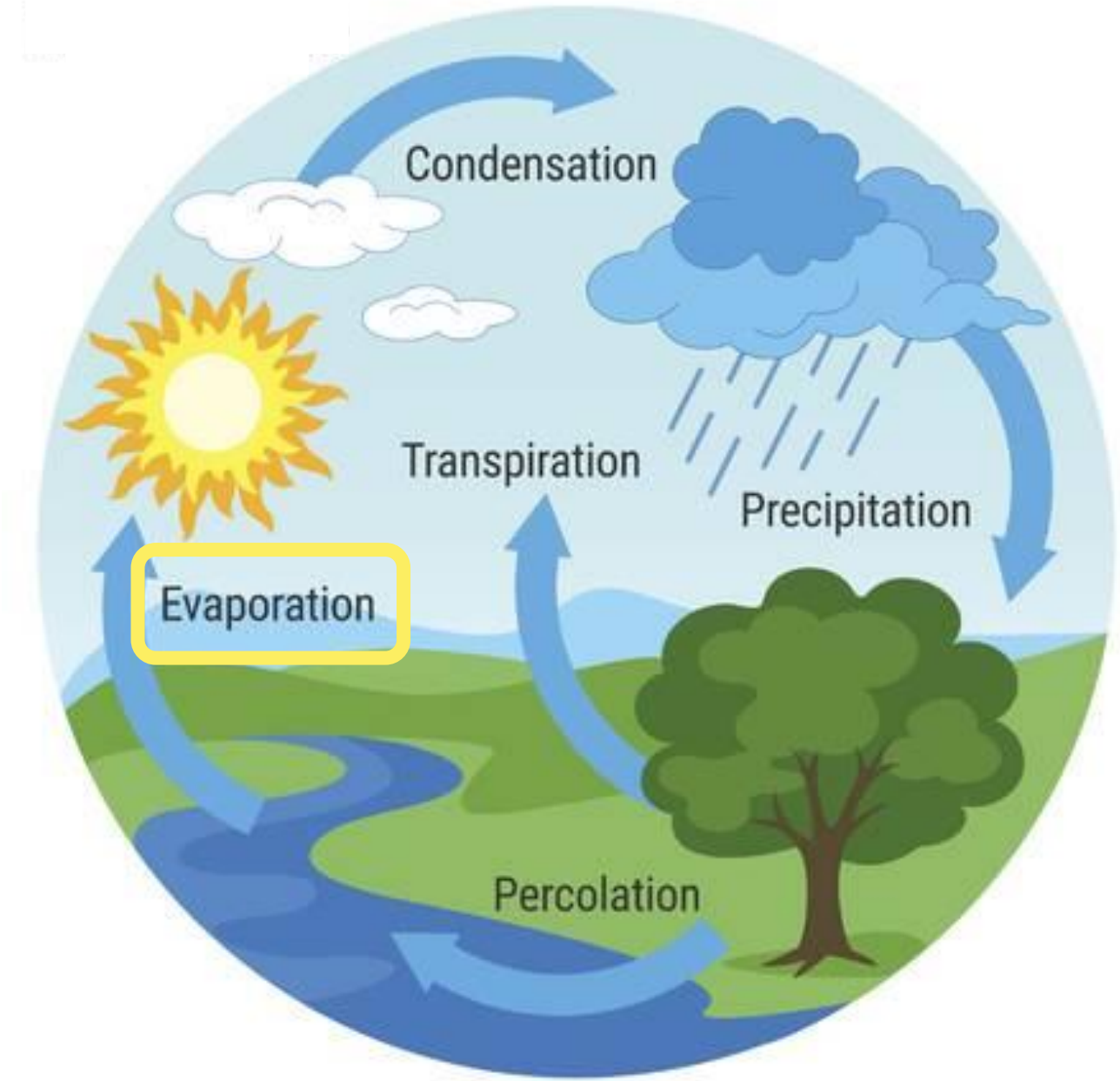
High winter demand from temperate countries

Agricultural incentives from government

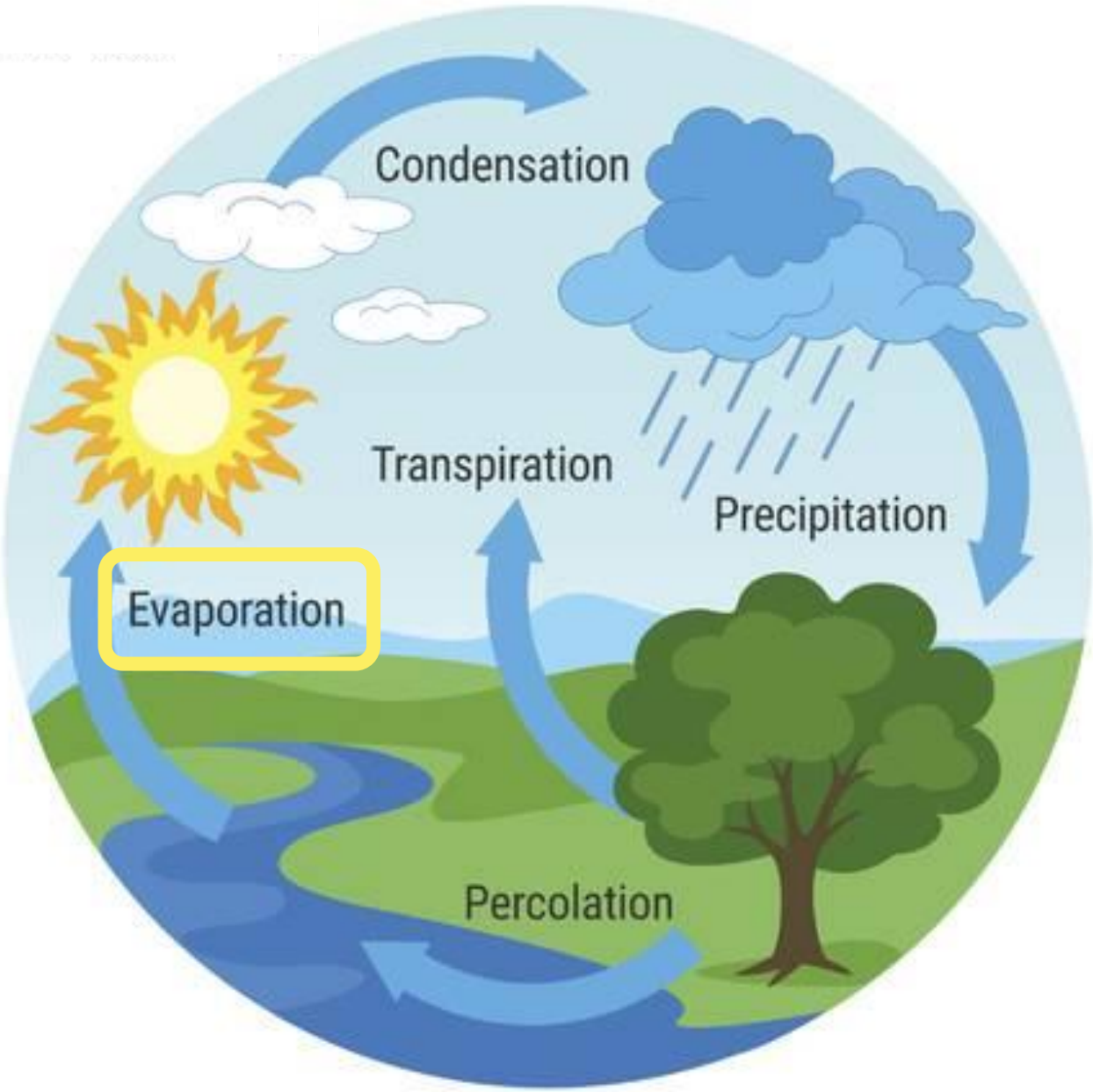
THE WATER CYCLE

- Water falls from the sky as precipitation
- This water either gets used by plants or percolates into the ground
- Trees and other plants release water during a process called transpiration
- Water also evaporates back into the atmosphere
- Water in the atmosphere condenses into rain and will fall as precipitation, beginning the cycle again!

THE WATER CYCLE

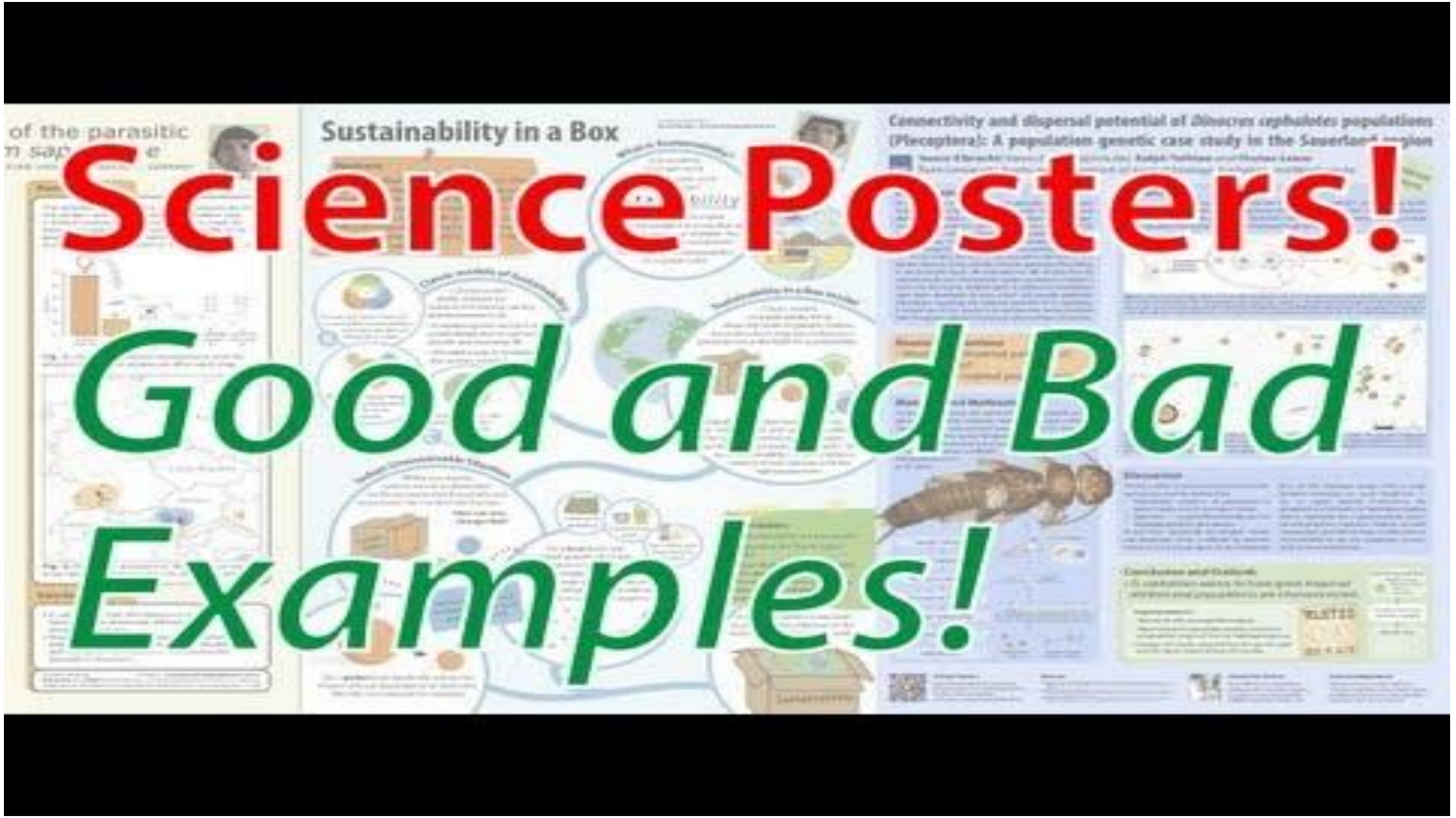


Evaporation:
the process by which water changes from a liquid to a gas or vapor.



POSTERS

https://www.youtube.com/watch?v=agtgnJP3KoQ Can stop at 2m38s



- Title should be big and attention-grabbing
- NO ABSTRACT
- Header bars and boxes help delineate sections
- Results (or expected results) should be primarily images
- Conclusions= take-home messages
- Text size
- References
- Promotion

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- References
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ANY OTHER QUESTIONS?

THANKS!

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