Workshop #4: Giving a Talk.

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Some talks are amazing.

fascinating content + clear presentation + fun

→ "airplane-mode talk"

Other talks are literally the worst.

unclear what is content + bad presentation + not fun

→ "collective marginal politeness"

Today: Get them to clap because they loved it.

Not because they're glad it's over.

Tips for giving good talks.

- 1. Philosophy, structure, and strategy.
- 2. Slide rules so your slides rule.
- 3. How to improve efficiently.
- 4. Game-day tips.

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bring you that job/data/collaborator/respect,

teach the audience a new idea or result,

excite people about working in your area.

A talk is information transfer & a performance. It can...

for you

for science

entice someone to read your paper,bring you that job/data/collaborator/respect,teach the audience a new idea or result,excite people about working in your area.

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Step 1: decide what you want and write it down.

Ex: I want you to think of this talk first, the next time you prepare a presentation.



Step 1: decide what you want and write it down.

Second, identify the idea.

A talk should focus on an idea, not a paper.

Compare: "I want to tell you about a finding." vs "I want to tell you about my paper."

The idea is the cargo of the talk. The thing they take home.

What will they say when asked what your talk was about?



Step 2: identify your cargo and write it down.

Third, identify your audience.

Try to put yourself in their position.

What are their brains going to be like, when you give the talk?

Estimate their knowledge, opinions, mood, fatigue, etc.

Consider audience variance, not just mean.

And, err on the side of overestimating variance.



Step 3: model your audience, and write that down.

1 slide = 1 minute.

Start with this unit conversion. Give 5 talks. Only *then* adjust.

Filler slides count.

A 10-minute talk.

1.

2.

3.

4.

5.

6.

7.

8.

9.

10

1 slide = 1 minute.

Start with this unit conversion. Give 5 talks. Only *then* adjust.

Filler slides count.

A 10-minute talk.

1. Title Slide

2.

3.

4.

5.

6.

7.

8.

9.

10. Thx & Acknowledgements

1 slide = 1 minute.

Start with this unit conversion. Give 5 talks. Only *then* adjust.

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A 10-minute talk.

General Structure:

Tell 'em what you'll tell 'em.

Tell 'em.

Tell 'em what you told 'em.

- 1. Title Slide
- 2.
- 3.
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- 1. Title Slide
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- 7.
- 8.
- 9. What you told 'em. + 1 Q
- 10. Thx & Acknowledgements

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A 10-minute talk.

General Structure:

Tell 'em what you'll tell 'em.

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Tell 'em what you told 'em.

```
    Title Slide
    Intro. Entice audience.
    Intro. Hook audience.
    Intro. Hook audience.
```

6.

7.

8.

9. What you told 'em. + 1 Q 10. Thx & Acknowledgements

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A 10-minute talk.

General Structure:

Tell 'em what you'll tell 'em.

Tell 'em.

Tell 'em what you told 'em.

- 1. Title Slide
- 2. Intro. Entice audience.
- 3. Intro. Hook audience.
- 4. Outline. What you'll tell 'em.
- 5.
- 6.
- 7.
- 8.
- 9. What you told 'em. + 1 Q
- 10. Thx & Acknowledgements

1 slide = 1 minute.

Start with this unit conversion. Give 5 talks. Only *then* adjust.

Filler slides count.

A 10-minute talk.

General Structure:

Tell 'em what you'll tell 'em.

Tell 'em.

Tell 'em what you told 'em.

- 1. Title Slide
- 2. Intro. Entice audience.
- 3. Intro. Hook audience.
- 4. Outline. What you'll tell 'em.
- 5. [Result]
- 6. [Result]
- 7. [Result]
- 8. [Result]
- 9. What you told 'em. + 1 Q
- 10. Thx & Acknowledgements

1 slide = 1 minute.

Start with this unit conversion. Give 5 talks. Only then adjust.

- 1. Title Slide
- 2. Intro. Entice audience.

Filler slic Only four slides of content.

A 10-mi The rest is [important] narrative.

General Structure:

Tell 'em what you'll tell 'em.

Tell 'em.

Tell 'em what you told 'em.

o. Result

7. [Result]

8. [Result]

9. What you told 'em. + 1 Q

10. Thx & Acknowledgements

Write **1 sentence** for each slide, that explains what the slide will do *or* chooses a figure for the slide.

- 1. Title Slide
- 2. Intro. Entice audience.
- 3. Intro. Hook audience.
- 4. Outline. What you'll tell 'em.
- 5. [Result]
- 6. [Result]
- 7. [Result]
- 8. [Result]
- 9. What you told 'em. + 1 Q
- 10. Thx & Acknowledgements



Step 4: budget + topic sentence for each slide.

Recapping the strategy so far:



Step 1: decide what you want and write it down.



Step 2: identify your cargo and write it down.



Step 3: model your audience, and write that down.



Step 4: budget + topic sentence for each slide.

Finally, refine & enhance your outline.

People like stories.

Coherent narratives. The story of the problem. Personal puzzles. The story of the research & you. Surprises. Confusion. Resolution. Plot twists.

People like to feel smart.

Take one hard thing and help the audience get it. √



Finally, refine & enhance your outline.

People like stories.

People like to feel smart.

- 1. Title Slide
- 2. Intro. Entice audience.
- 3. Intro. Hook audience.
- 4. Outline. What you'll tell 'em.
- 5. [Result]
- 6. [Result]
- 7. [Result + Aha! moment]
- 8. [Result]
- 9. What you told 'em. + 1 Q
- 10. Thx & Acknowledgements

Philosophy, structure, and strategy.



Step 1: decide what you want and write it down.



Step 2: identify your cargo and write it down.



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Step 5: refine & enhance with narrative & "Aha!"



Tips for giving good talks.

- 1. Philosophy, structure, and strategy.
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- 3. How to improve efficiently.
- 4. Game day tips.

Aspect ratio: widescreen only. It's 2020.

Wait really?

No unexplained figures.

And no unexplained axes.

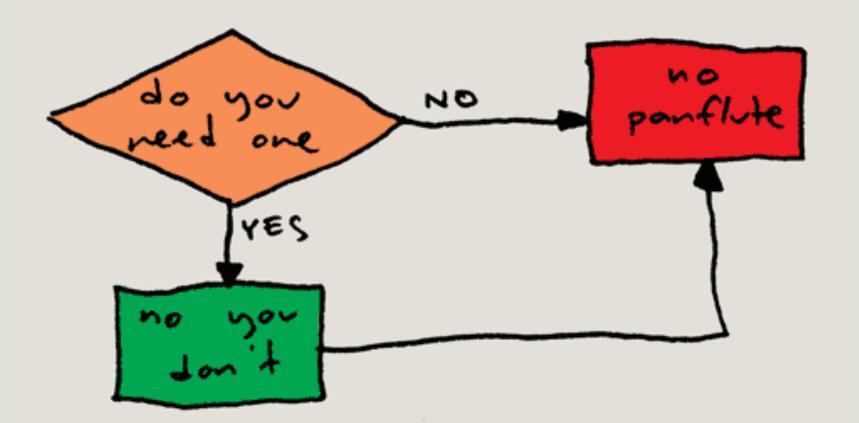
[Literally no point in figures if people don't get them.] And also:

- 1. Say "horizontal" and "vertical", not x and y.
- 2. Consider putting up the axes before the content, and set expectations or ask for speculation [budget this]. What do we expect this plot will show? [Example]
- 3. Remake labels from the PDF version of figures in larger fonts for your talks. [Example]
- 4. Annotate your figures with arrows, highlights, etc. [Example]

No unexplained equations or notation.

"Yes, but I need this notation." lol ok, but do you really?

PANFLUTE FLOWCHART



No unexplained equations or notation.

They cost attention but provide precision. Consider the tradeoff.

Exceptions:

Audience affects the tradeoff. Physics department vs Sociology department.

Use in "job talks" where you need to signal credibility and rigor.

Use to combat "lightweight" bias* of audience. Do not overcompensate. [Example]

No small fonts.

Except for footnotes and citations.

Put mini-figures on the conclusions slide.

Particularly useful for long talks. [Examples]

Use a consistent theme and fonts.

"What would Sam Way do?"

L gives amesome talks

No unexplained figures.

No unexplained equations or notation.

No small fonts.

Use a consistent theme and fonts.

Put mini-figures on the conclusions slide.

Aspect ratio: widescreen only. It's 2019.

Tips for giving good talks.

- 1. Philosophy, structure, and strategy.
- 2. Slide rules so your slides rule.
- 3. How to improve efficiently. TL; DR:
- 4. Game day tips.

```
-TL; DR:

• practice!!

• not too fast

• pause; eye contact;

read your audience

• psych 101: don't make

us choose you vs. slides
```

Lskip>

What should you say?

Step 1: List what you need to say for each slide.

Then review your list.

Each slide is a story. Revise each slide till you naturally link its plot points.

If you think you'll forget something, place a cue on the slide. [Example]

If there is key wording, write exact wording on the slide. [Example]

Note: figures are a prepackaged story: tell figures start to finish.

Transitions are as important as content



Step 2: Plan every transition.

What will you say before clicking "next"?

Set audience expectations, and then meet or defy them.

Say it before clicking! Never talk through a transition.

Fun experiment: watch people's eyes at slide transitions. They're *never* on the speaker!

Practice and revision are fundamental.



Step 3: Talks don't get worse with practice. Ever.

- A. Make the slides, talk them through, solo, start to finish.
- B. Edit the slides, rehearse the talk. Time it. [Repeat]
- C. Present it like you mean it to video or a friend. Time it. Note: Giving a first-draft talk is disrespectful. Don't do it!
- D. Listen to the feedback. Make changes. Hit step B again. Asking for feedback and then ignoring it is wasteful. Don't do it!
- E. Apply extra polish to the intro, conclusions, and transitions.

Equip yourself with delivery tools

No. Not laser pointers. Don't use a laser.

- Speed.
- The pause.
- Loud vs medium.
- Warmth vs authority*.
- Eye contact (and intentional looking away).
- Pitch—consider mean & variance. [beware uptalk]
- Body movement. Head, hands & arms [the box], and legs.
- Turn it up to 11.
- Special effects**. The echo. The slow walk. The double pause.



Step 4: Plan a couple delivery tools.

Equip yourself with delivery tools

No. Not laser pointers. Don't use a laser.

- Speed. Finishing under time at 1000 words/minute can be as bad as running over time at a regular pace. Experiment with speed.
- he pause. Try a pause to let your last statement sink in. Doubles as built-in water break. Feels longer to you than to audience!
- Loud VS medium. Again, experiment, but err on the side of more volume, not less.
- Warmth vs authority*. Next conference, notice how speakers tend to fall somewhere on an axis between warm & authoritative.
- Eye contact (and intentional looking away). More is better, generally. As with the others: experiment!
- Pitch—consider mean & variance. [beware uptalk] Opinions vary re uptalk. I suggest avoiding.
- Body movement. Head, hands & arms [the box], and legs. Experiment! Try a new move!
- Turn it up to 11. Enthusiasm is fun for you and the audience. Record yourself and cringe at how your 11 is IRL a 4.
- Special effects**. The echo. The slow walk. The double pause. Advanced moves. ♥



Step 4: Plan a couple delivery tools.

*This comes from LeeAundra Keany, a phenomenal speaker and coach. **This comes from P. Edwards' amazing notes: pne.people.si.umich.edu/PDF/howtotalk.pdf

How to improve efficiently.



Step 1: List what you need to say for each slide.



Step 2: Plan every transition.



Step 3: Talks don't get worse with practice. Ever.



Step 4: Plan a couple delivery tools.



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Things to do before you stand up.

Take 10-15 mins of time to yourself.

Look at the ocean.

Flip through your slides.

Review your transitions.

Breathing exercises.

Pushups.

Epic music. Chill music.

Whatever. You do you.

Upload your slides as a PDF to an easy URL.

It's 2020 (basically). No excuses. Always have a backup.

Things to do when you stand up.

Always use the mic.

"Do I need the mic?" produces more false negatives than false positives.

Keep the lights on.

You are exciting and beautiful but people will fall asleep if it's dark.

Finish early but not too early.

Do not run over time. Just do not.

[And if you do, have an exit strategy: know ahead of time what to skip, & don't mention that you're out of time. Just finish victoriously as soon as you coherently can.]

Things to do after you sit down.

Debrief

What worked well and what didn't? [Suggestion: do not ask other people. They'll lie or you'll be upset. Answer

these questions for yourself, with a "getting better takes work!" attitude.]

Learn from the greats

If you ever see a talk you like, reverse engineer it.



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Step 4: budget + topic sentence for each slide.

Step 5: refine & enhance with narrative & "Aha!"

Step 6: List what you *need* to say for each slide.



Step 7: Plan every transition.

Step 8: Talks don't get worse with practice. Ever.

Step 9: Plan a couple delivery tools.

Workshop #4: Giving a Talk.



Further Reading:

- LeeAundra Keany is wonderful. http://thecontrarypublicspeaker.com/
- \$ 11 B
- Paul Edwards' fantastic notes: pne.people.si.umich.edu/PDF/howtotalk.pdf
- [Your suggestions here. Email me daniel.larremore@colorado.edu]