Storytelling in Scientific Talks

Crafting and Refining a Narrative for Better Communication



The Bard, John Martin, 1817

Storytelling is an ancient and effective communication strategy

- Narrative arcs are recognizable frameworks
- Keep your audiences engaged and energized throughout the talk
- Makes your science memorable



The Story Teller, Amrita Sher-Gil, 1937

Explicitly define your parameters and goal

Title: Storytelling in Scientific Talks: Drafting and Refining a Narrative for Better Communication **Time:** 45 minutes, 5 minutes for questions

Audience: CCB students + postdocs who want to improve their communication skills for scientific talks

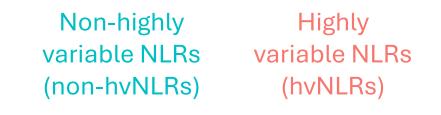
Background: have probably given talks before, maybe have important talks soon, have seen a lot of good and bad talks, technical science across CCB disciplines

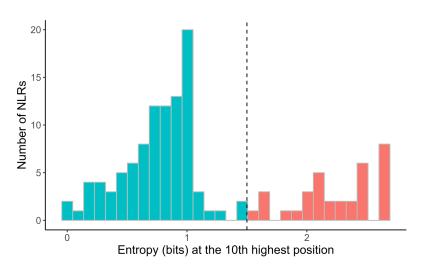
Goal: introduce storytelling as a helpful tool and framework

Method: hybrid seminar + workshop to get people thinking about applications to their own work ASAP

Define indispensable data and the context it requires

Bimodal distribution of Arabidopsis NLRs

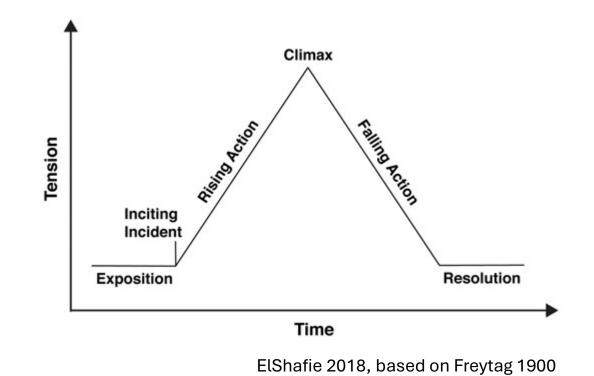


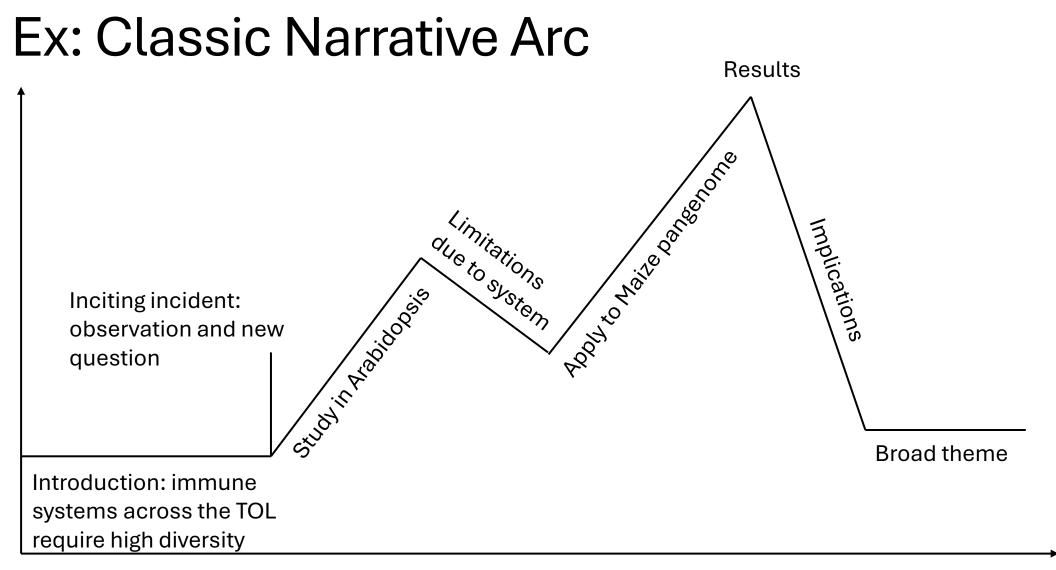


- What an NLR is
- Why do we care about NLRs
- What Entropy is
- Why we choose to use Entropy
- Why is the data bimodal and why we chose to bin

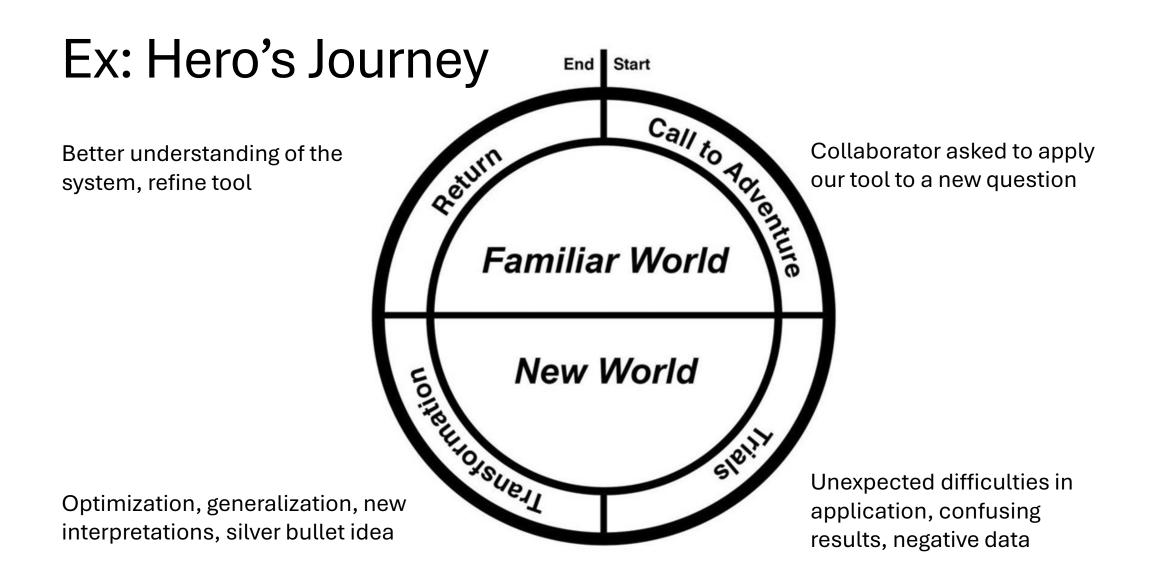
Find your narrative arc

- Center your resolution on your goal and work backwards
- Play with protagonists
- Capture attention with the inciting incident; keep it with obstacles, twists, rising stakes
- Finish with your resolution, unifying with a broad theme and achieving your goal



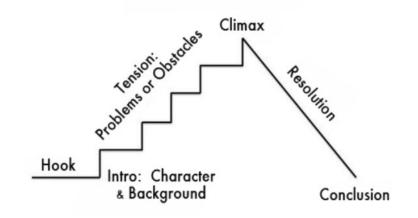


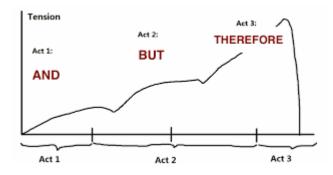
Tension



Other Common Narrative Structures

- Result-problem-resultproblem
- Mystery
- Call to action
- And-but-therefore
 - Fact 1 and Fact 2, but conflict one. Therefore, resolution





Develop your own narrative arc

- Who is your protagonist?
- Which arc fits your goal and scientific story?
- How can you organize your indispensable data into the arc?



"A good story cannot be devised. It has to be distilled."

- Raymond Chandler

Become the bard

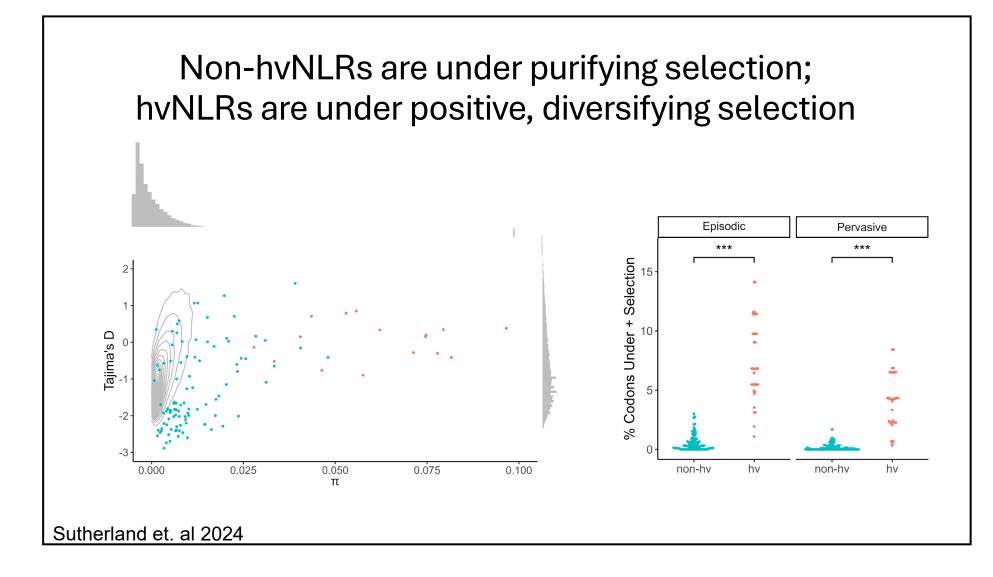


You are the audience's guide through your story and your science

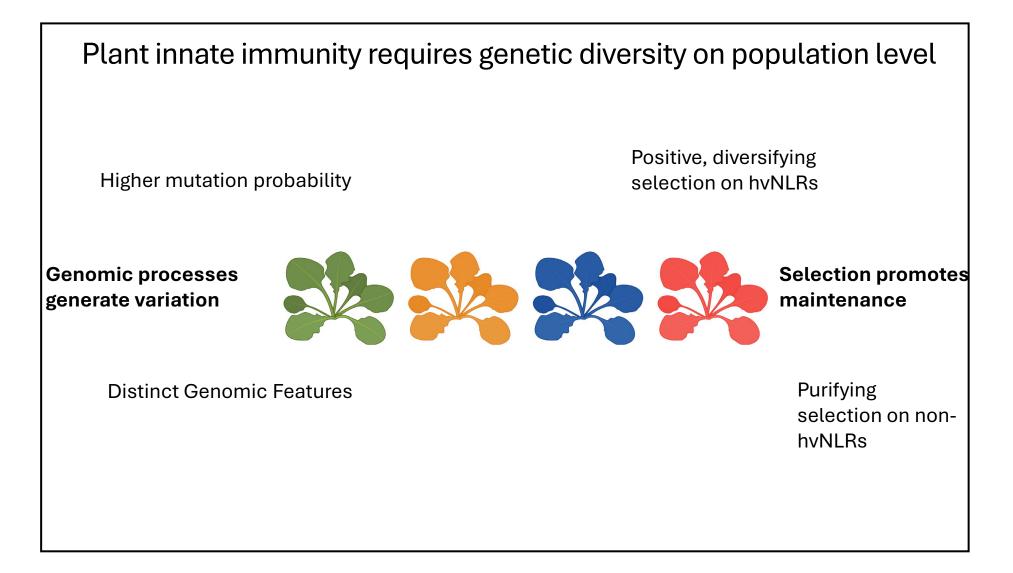
Subtlety is not effective, repetition is

The Bard, Benjamin West, 1778

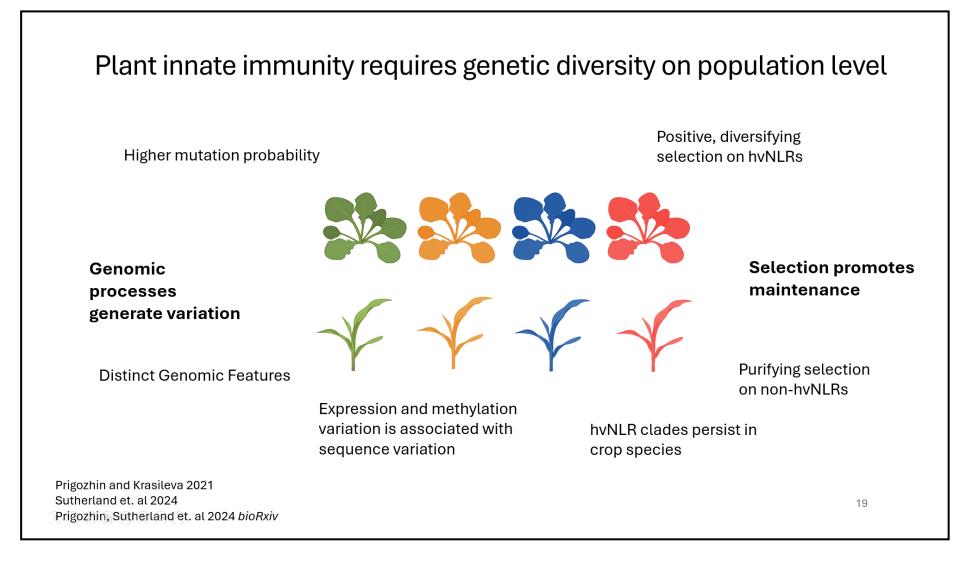
Use the tools at your disposal to guide the audience



Homing slides re-orient audiences and pick up stragglers



Encourage good questions by ending on a summary slide



Become the bard



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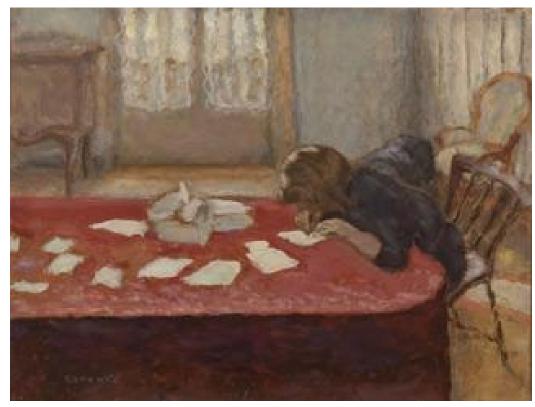
Project credibility

Lead with confidence, this is your story!

The Bard, Benjamin West, 1778

Every talk is a job talk and every talk is a practice talk

- Do a postmortem on your next talk
- There are good and bad talks all around you



Jeune femme ecrivant, Pierre Bonnard, 1908









COMMUNICATION, LITERACY & EDUCATION for AGRICULTURAL RESEARCH

THE CLEAR PROJECT



Sara ElShafie

TRUTH IS A GREAT FLIRT WOONDERFEST The Bay Area Beacon of Science

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Storytelling in Scientific Talks

- Define your goal
- Organize indispensable data into a narrative
- Practice, distill, iterate
- Lead your audience with confidence
- Enjoy the benefits of communicating effectively!