



Grassroots Artist Scientist Historians

Science and Narrative

- Science is a language - like words and imagery -- that gives us the power to express, communicate and persuade.
- As science educators we are not "selling" science. We are "selling" the life of a scientist and that is a compelling narrative.
- The art of narration has always developed hand-in-hand with science. Many of the most creative artists are scientists. Many of the most creative scientists are artists.

Grassroots Artist Scientist Historians

- Starts small with 15 minute units that can be added to individual class hours
- and longer optional projects that added to classes
- Individually small but collectively transformative
- Build students' narrative powers
- Share understanding and empathy across cultural divides
- Build a sense of self
- Build community
- Possibly raw material for more formal histories of, by and for the grasssroots

Photo-of-the-Day - What do you see?



Richard Foulser/Trunk Archive

The most revolutionary part of President Biden's agenda so far is his focus on a constituency that doesn't write whiny op-ed columns, doesn't vote, doesn't hire lobbyists and so has been neglected for half a century: children.

Biden's proposal to establish a national pre-K and child care system would be a huge step forward for children and for working parents alike. It would make it easier for moms and dads to hold jobs, and above all it would be a lifeline for many disadvantaged children.

Imagine: You drop a kid off at a high-quality prekindergarten program in the morning and pick the child up on the way home from work. That's how it is in many other advanced countries, and in the United States military.

When my wife and I lived in Japan in the late 1990s, we sent our kids to [one of these nurseries](#), and they were a dream.

What do you see?

Plenary Discussion

Just one interesting exhibit:

<https://whitney.org/exhibitions/julie-mehretu>



The worst-governed state – Illinois had triple the population loss of the state with the second-highest out-migration between 2010 and 2020 – is contemplating another incentive for flight. (George Will)



North Carolina's state school board on Thursday approved new standards requiring social studies teachers to discuss racism, while some board members slammed the move as “anti-American” in one of many fights playing out across the country about how schools teach history. (Marisa Lati)



12MP Wide camera

$f/1.8$ aperture

Digital zoom up to 5x

Portrait mode with advanced bokeh and Depth Control

Portrait Lighting with six effects (Natural, Studio, Contour, Stage, Stage Mono, High-Key Mono)

Optical image stabilization

Six-element lens

LED True Tone flash with Slow Sync

Panorama (up to 63MP)

Pocket Photographic Power - iPhone SE (\$400)

Colleen Woolpert

- <https://colleenwoolpert.com>
- Colleen Woolpert is a former photojournalist and editorial photographer. She teaches classes and runs workshops helping students develop their ability to use imagery for creative story-telling.
- She has created many cool exhibits and installations.
- We met over a shared interest in using 3D photography and historical stereograms to place current events in a historical context.

See Colleen Woolpert slides. Then return.

This is a workshop and discussion

- So we begin putting ourselves in the role of our students.
- We want to use imagery - either taken now or from our albums to tell a story.
- Pick a topic for a narrative - for example, how the pandemic affected you and those close to you.
- Either take a picture now or find one in your own photo album that might further this narrative.
- Write a paragraph or two as an extended caption for your image.
- Turn over to Kate (See Kate Poirier slides. Then return.)
- We'll reconvene in ten minutes for discussion.



Early in the pandemic I had to cancel several trips. I spent many hours walking around my neighborhood. I had time to appreciate the everyday beauty of simple things, like a backlit branch hanging over a sidewalk.

Breakout Discussion

Marianna Bonanome

- One of the most interesting people I know
- Incredibly wide-ranging interests - has introduced me to many cool books and people.
- We've talked a lot about using ideas from games and quests in classes.

Marianna introduces Kate

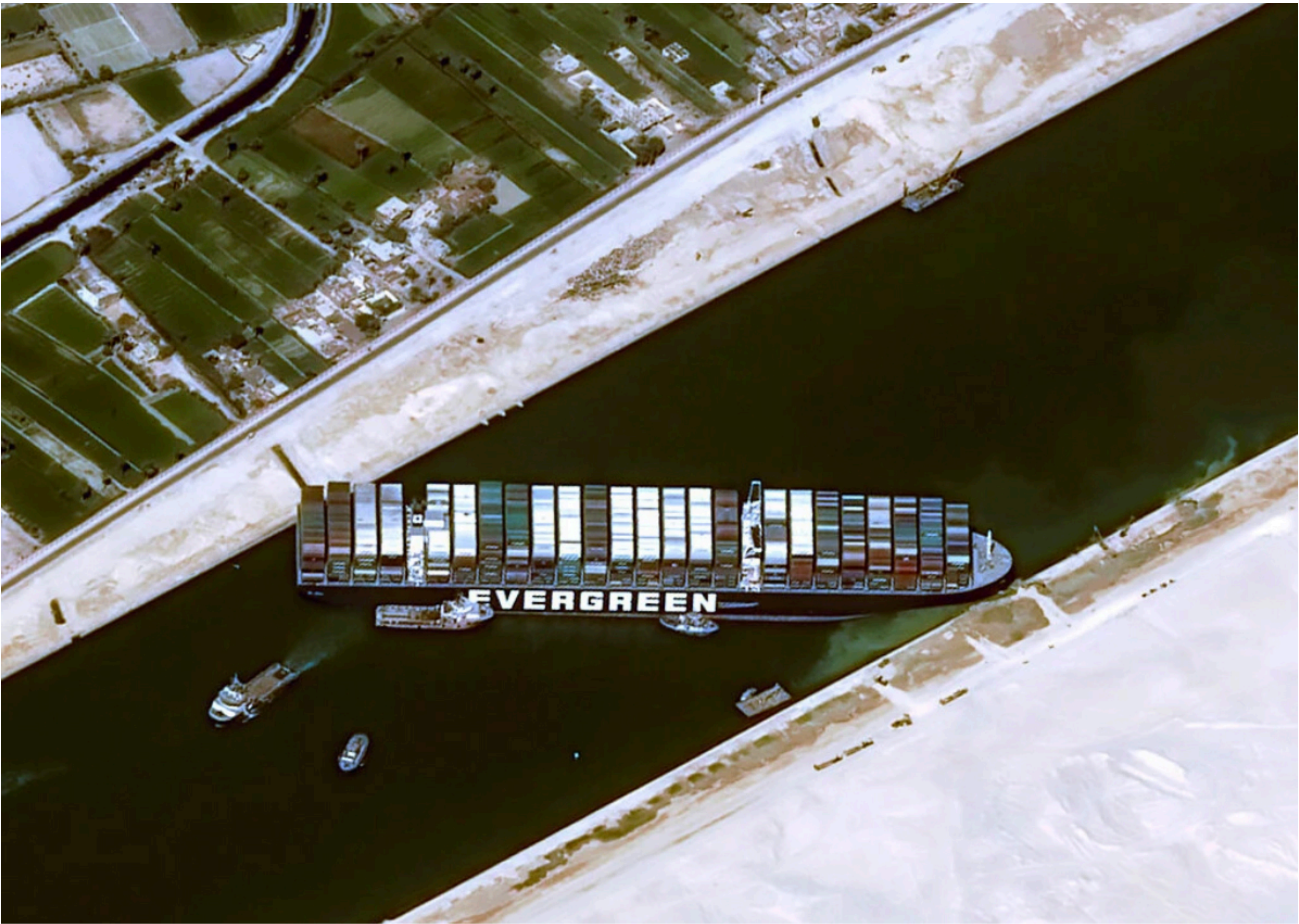
**We may be out of time at this
point. We want to close
with**

Closing

- Discussion (all)
- Introduce web site (Frank)
- <https://justaddmath.org/grassroots-grassroots-histories-and-the-arts-and-sciences/>

Optional omitted slides follow





My favorite meetings have begun with me not knowing anyone. They have been all about meeting new people and leaving with new ideas and new friends. We hope this webinar has been like that. So, we'd like to spend some time in breakout rooms, posting new ideas -- new things we might do for the future.

The terms tipping point, inflection point and bifurcation point have become cliches but cliches are cliches for a reason - they are useful. Political power in the U.S. and around the world is at a tipping point. The small things we do now may have enormous effects.

Lets fill the breakout room documents with ideas that lead to action.





Zoom Lens -- Size 10 1/2 -- Medium





Your best zoom lens is your feet

- Use your cellphone camera to compose an interesting picture.
- Add a short description.
- Upload to DropBox for discussion.

I wanted to capture Olaf in his usual setting. The ultra wide angle lens on my cellphone and its extreme depth of field let me do this by getting very close.

This kind of image would be good for showing a pandemic home workspace.