

What's your story? Using storytelling to propel engineering education research

Shawn Jordan (Arizona State University)

Alan Cheville (Bucknell University)

Jennifer Turns (University of Washington)

Robin Adams (Purdue University)

Workshop activities

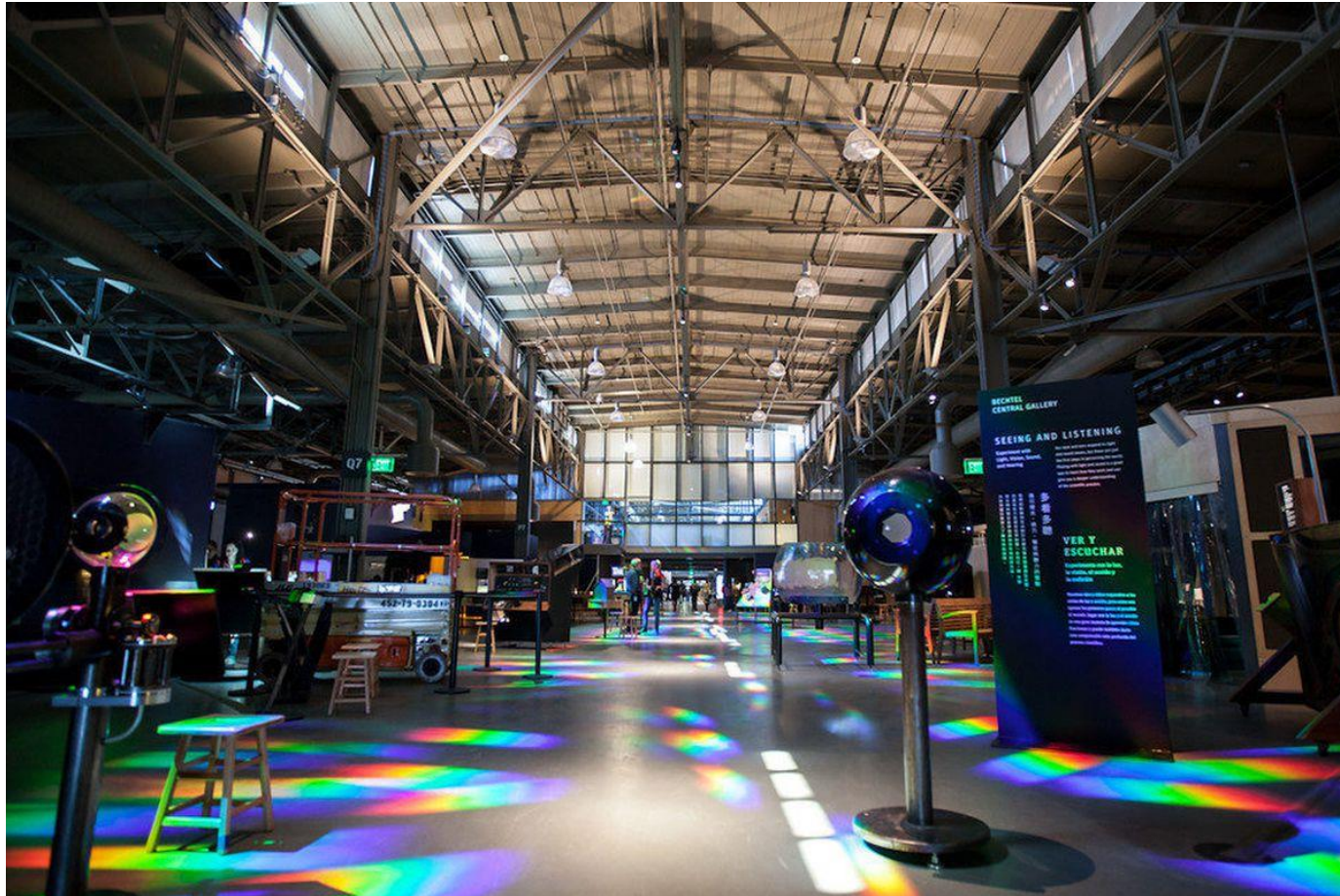
- ▶ Doing storytelling
- ▶ Improving storytelling
- ▶ Appreciating storytelling

Doing storytelling

- ▶ Getting some material
 - ▶ Think about a story related to some aspect of the research that brought you here (e.g., the origin story of the research, a success or challenge of the grant, anything...)
 - ▶ Free write/draw for 3 minutes
- ▶ Sharing your story
 - ▶ Find a partner
 - ▶ Share your stories
 - ▶ Time permitting, what did you like about each others' stories
- ▶ Transition
 - ▶ How can we get even better at storytelling - more intentional stories, more impactful stories, ...

My Story







**What was the difference
between my bio (“what”
story) you heard and the
“why” story I just told you?**

Messaging is a science.

- ▶ Best practices are research based.
- ▶ It is a skill. Practice it.
- ▶ Like teaching, it is also an art.

Why message?

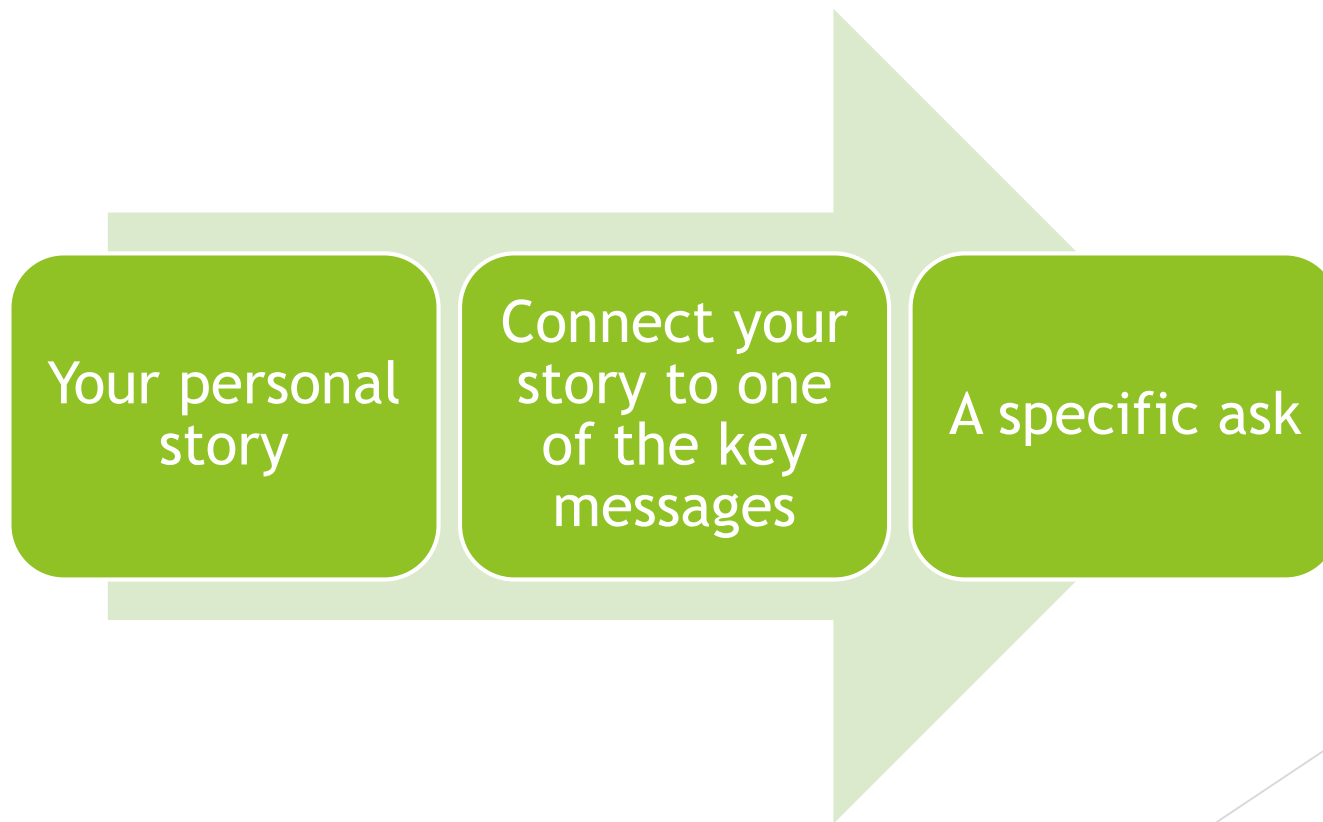
- ▶ You wish to implement change.
- ▶ The power to create change lies with someone else.

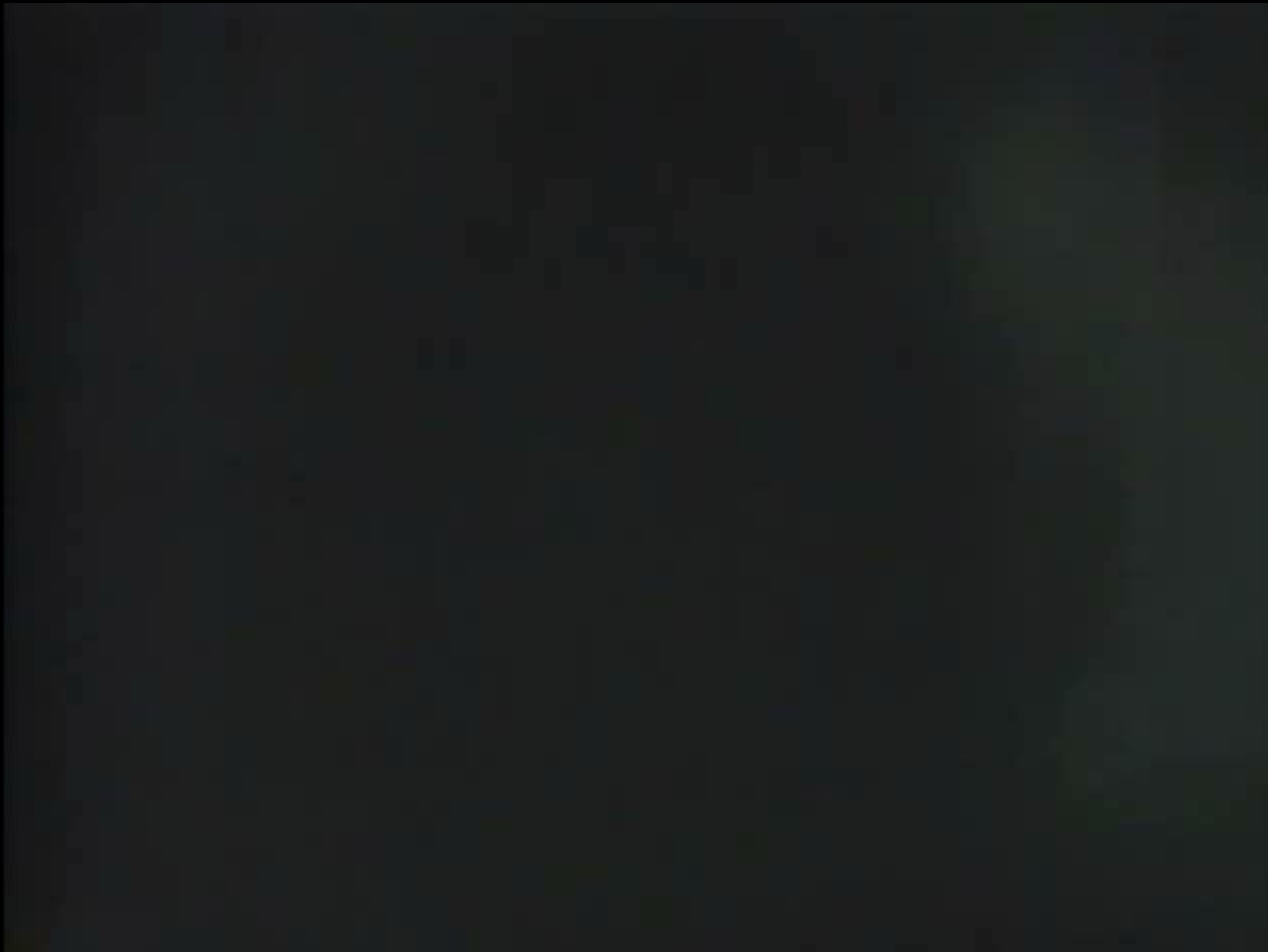
**“People don’t buy what you do, they
buy why you do it.” -Simon Sinek**

Theory of Change

- ▶ What do you want to change?
- ▶ Who has the power to change it?
- ▶ How does the action you will take create the change you want to see?

Using story to communicate your message





What is the personality of the big triangle?
Heider-Simmel Illusion published 1944

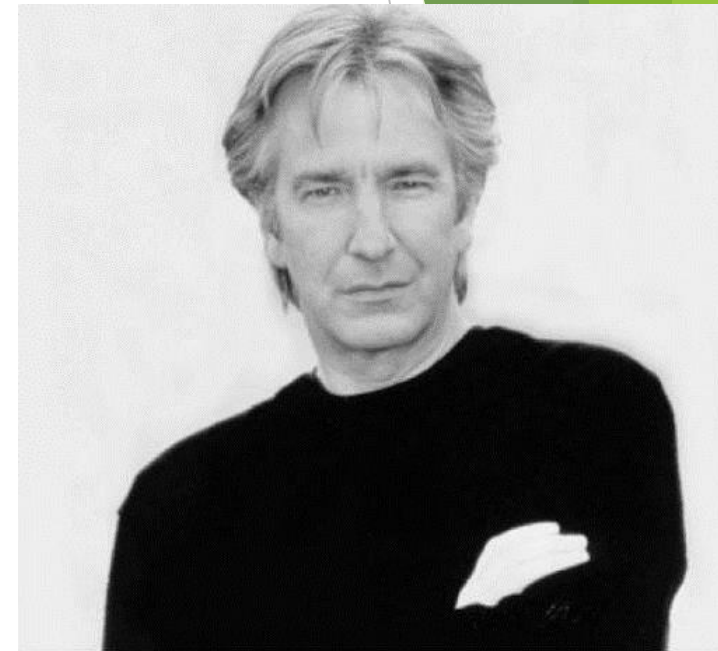
“For sale, baby shoes, never worn.”



Stories have an underlying structure

Characters in Action with specific Intentions in Settings
using particular Means

Stories arise through **tensions** between these elements such as when means do not support actions or characters' intentions do not align.

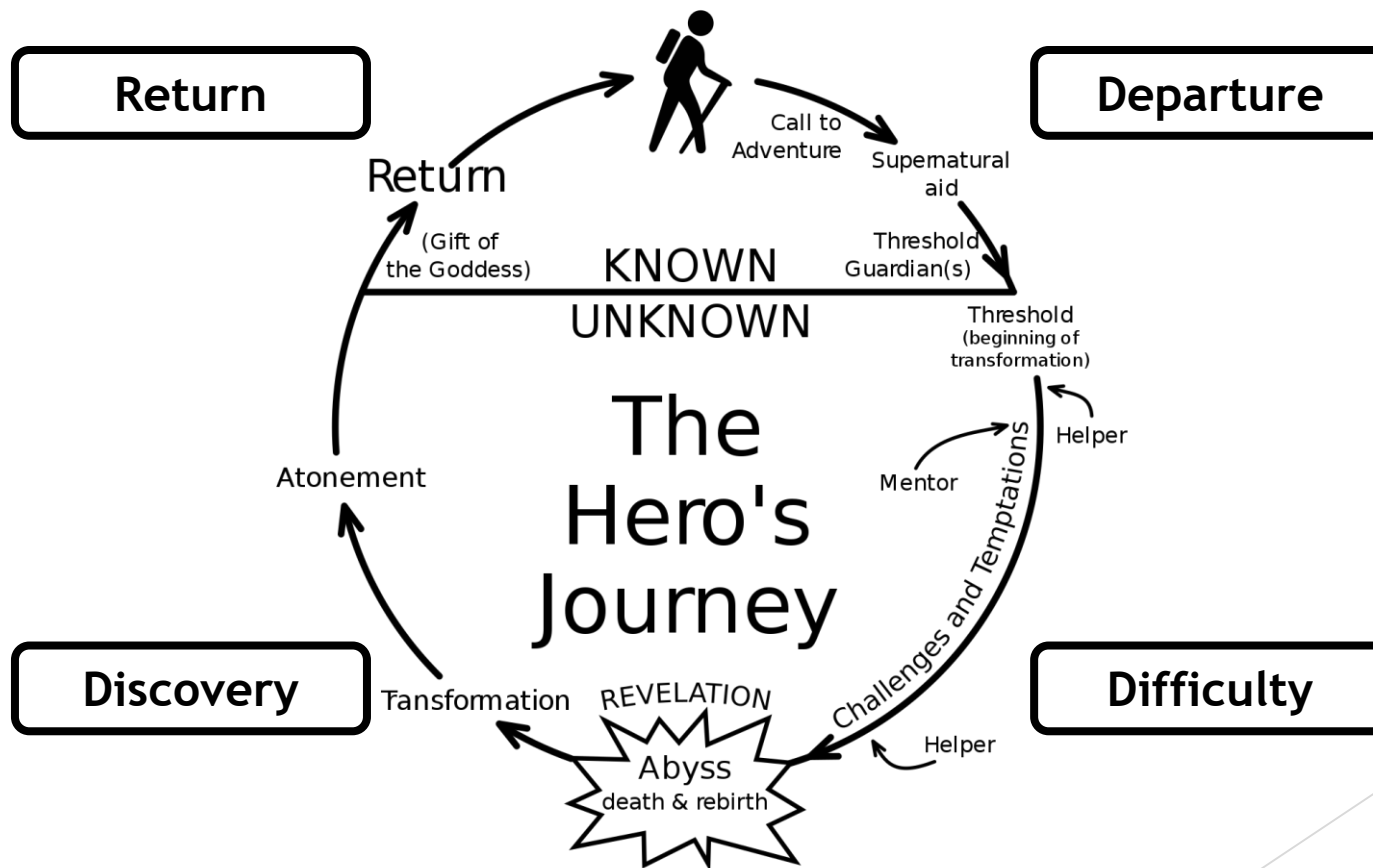


"And it's a human need to be told stories.
The more we're governed by idiots
and have no control over our destinies,
the more we need to tell stories to each other
about who we are, why we are, where we come from,
and what might be possible."
-Alan Rickman

Story Structures

The background of the slide features abstract, overlapping geometric shapes in various shades of green, ranging from light lime to dark forest green. These shapes are primarily located on the right side and bottom of the frame, creating a modern, layered effect against the white background.

Story Structures: Hero's Journey



Campbell, J. (2008). The Hero with a Thousand Faces (Third Edition). Novato, CA: New World Library.

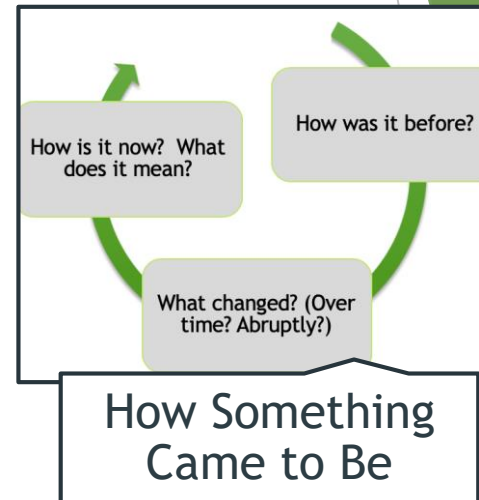
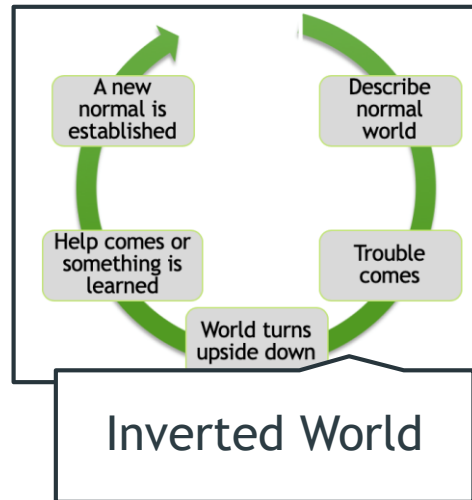
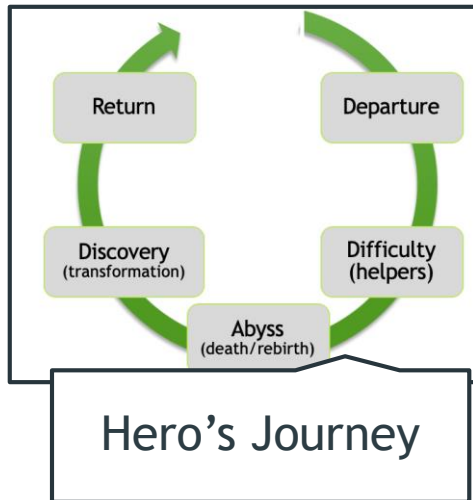
Story Structures: Simplified

- ▶ Basic story structure
 - ▶ Beginning (set the context - the place, participants, time)
 - ▶ Middle (describe the action - what happened, what problem is addressed, what changes occur)
 - ▶ End (provide the resolution - growth achieved, wisdom gained, problem solved)
- ▶ Five Ps
 - ▶ People, Place, Problem, Progress, Point

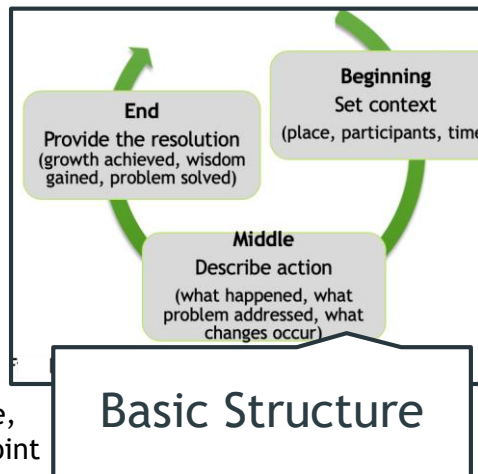
Story Structures: Simplified

- ▶ Inverted world
 - ▶ Describe the normal world
 - ▶ Trouble comes
 - ▶ The world turns upside down
 - ▶ Help comes or something is learned
 - ▶ A new normal is established
- ▶ How something came to be
 - ▶ How was it before?
 - ▶ What changed? Could be over time or abruptly
 - ▶ How is it now?
 - ▶ What does it mean?

Which story structure resonates with you?

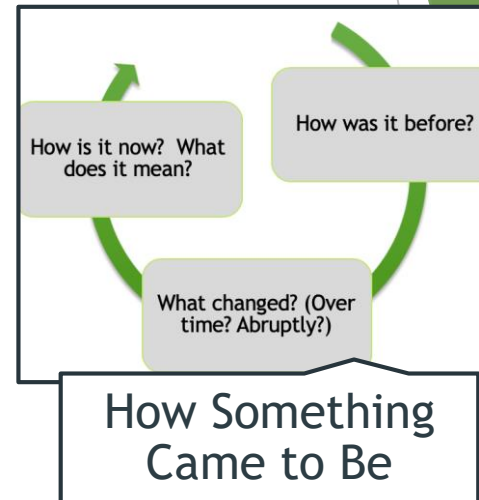
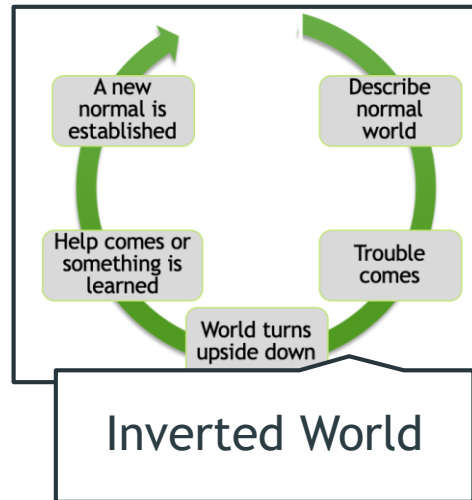
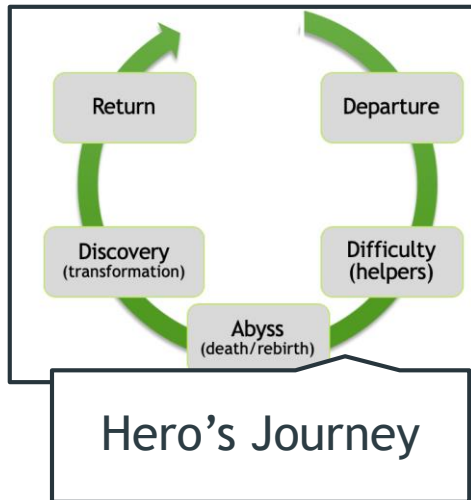


Characters in Action with specific Intentions in Settings using particular Means

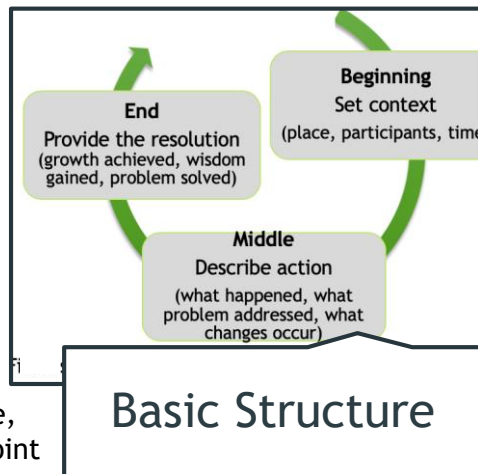


Five Ps: People, Place, Problem, Progress, Point

Choose one and explore using it to refine your story...



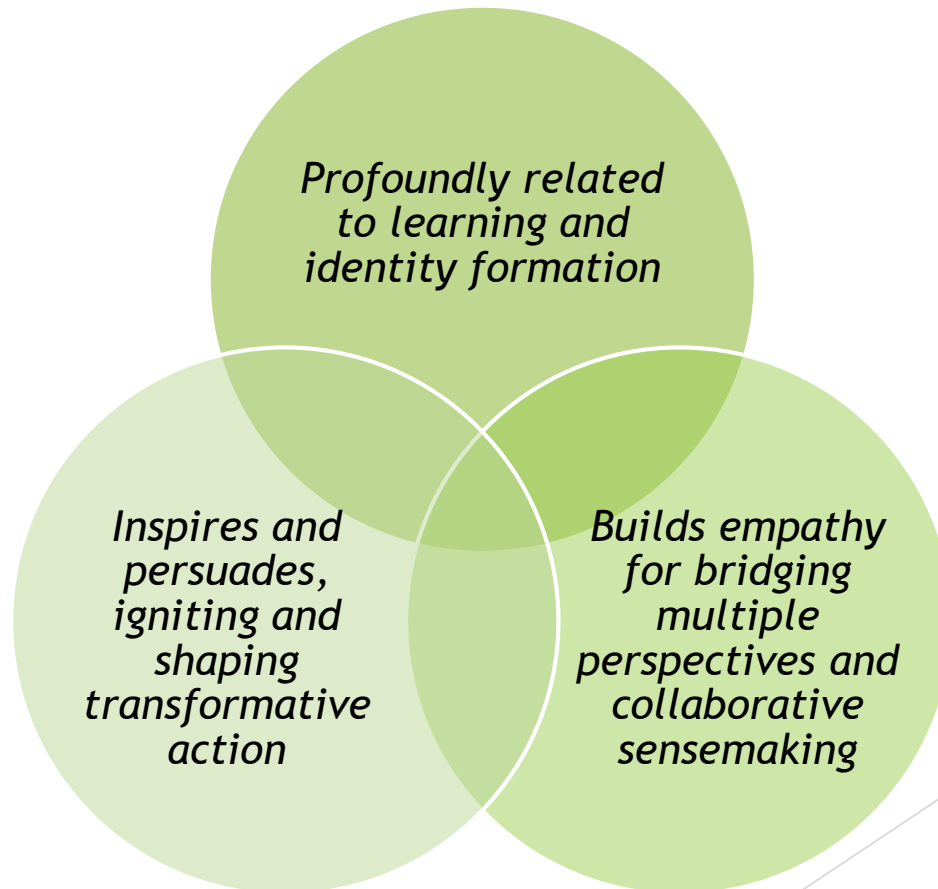
Characters in Action with specific Intentions in Settings using particular Means



Five Ps: People, Place,
Problem, Progress, Point

Appreciating storytelling

Stories and storytelling are worthwhile and legitimate!



Closing: 4+ word stories

- ▶ Channel your storytelling ability
- ▶ Take a minute, craft a 4+ word story
- ▶ Share!

Thank you!