Engineered Inequality & Rethinking Our Relationship To CS

Jared O'Leary
BootUp PD

How to reach the resources

- www.JaredOLeary.com
  - Presentations
    - Engineered Inequality & Rethinking our Relationship To CS

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What's the plan?

- Who am I?
- Beyond a digital divide
- What is engineered inequality?
- Rethinking our relationship to technology
- Exploring resources and examples
- Let's talk and continue to reflect

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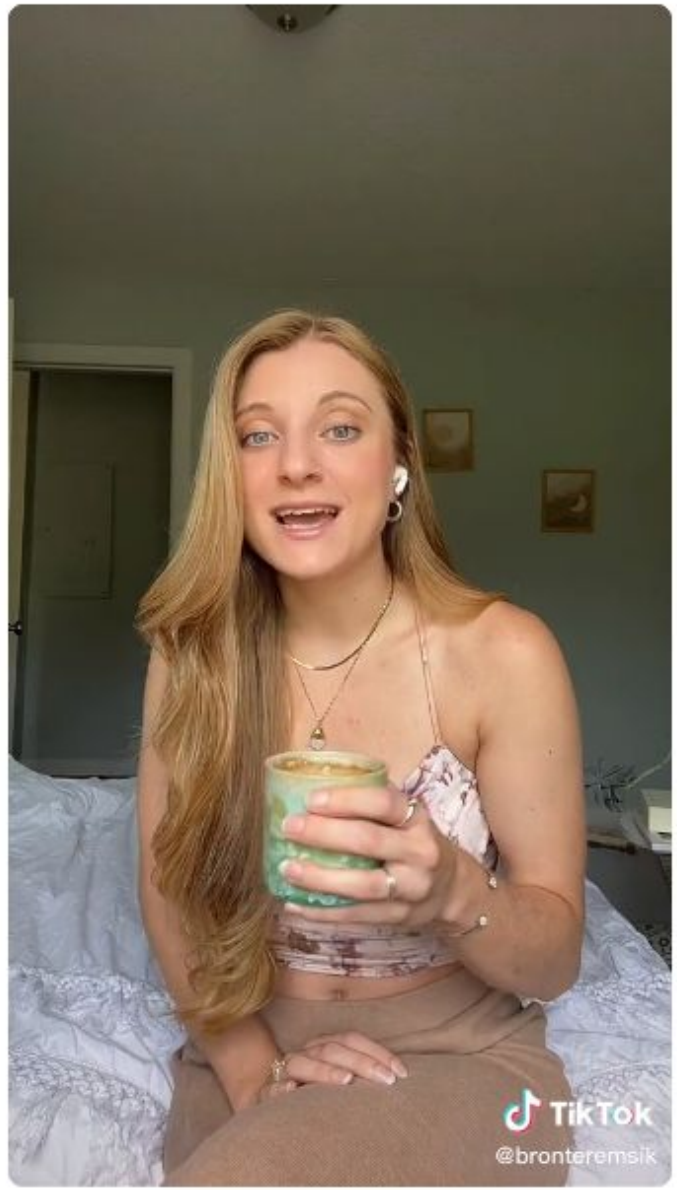
bronteremsik bronte remsik · 6-9

Hopefully this analogy can help some of y'all

♫ **original sound - bronte remsik**



174.8K

9189

13.9K

Who am I?

- All grades K-20+
- Experience in both music education and computer science education
- Director of Education & Research at BootUp PD
- Link to my CV is on my website

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Beyond a digital divide

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K-8 Technology -> Coding

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Is this equitable?

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Does this close the digital divide?

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Maybe

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What is engineered inequality?

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Some examples

- **Short video:** Why left-handers can't use right-handed scissors
- **Short video:** This 'Racist soap dispenser' at Facebook office does not work for black people
- **Short article:** 'The Computer Got It Wrong': How Facial Recognition Led To False Arrest Of Black Man
- **Longer article:** Racist in the machine: The disturbing implications of algorithmic bias
- **Book:** Algorithms of Oppression: How Search Engines Reinforce Racism

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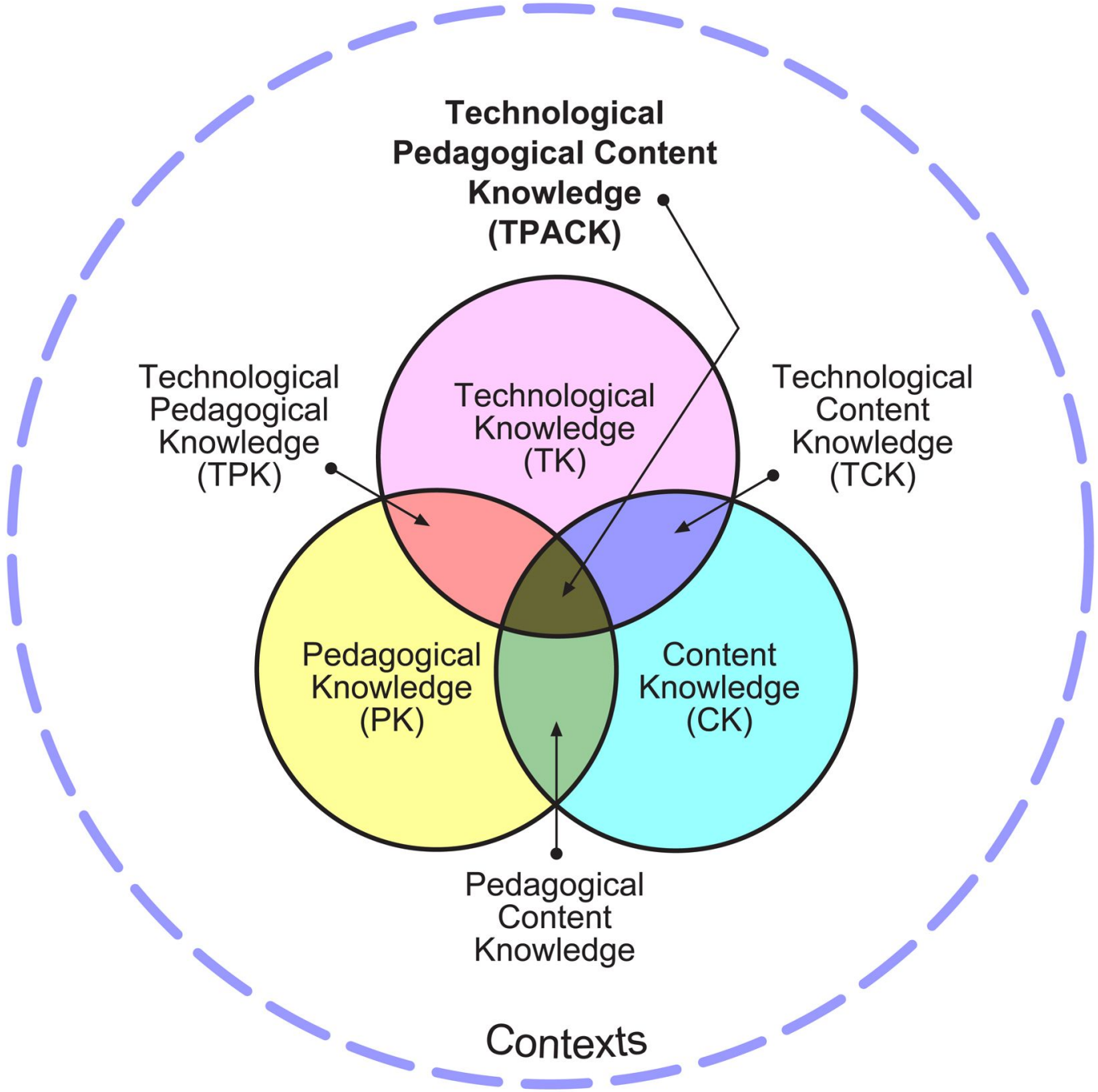

Technological Pedagogical Content Knowledge (TPACK)
Technological Pedagogical Knowledge (TPK)
Technological Knowledge (TK)
Technological Content Knowledge (TCK)
Pedagogical Knowledge (PK)
Content Knowledge (CK)
Pedagogical Content Knowledge
Contexts

dci drumline

Sign in

Blue Devils Drumline - DCI Semi Finals ...
youtube.com

Breaking the glass drumhead
dci.org

DCI in the lot: Blue Knights Drum Line ...
youtube.com

DCI in the lot: Bluecoats Drum Line ...
youtube.com

Home - DrumLine Battle™DrumLine Battle ...
drumlinebattle.com

Fred Sanford percussion caption award ...
dci.org

DCI in the Lot: Music City Drum Line ...
youtube.com

Top DCI Drum Lines
michaelmerrett.com

DrumLine Battle in 360: Top Secret vs ...
dci.org

Cavaliers 2013 Drumline ...
youtube.com

DCI's DrumLine Battle (@DrumlineBattle ...
mobile.twitter.com

2019 DrumLine Battle Indianapolis Photo ...
dci.org

Schack: DCI Perc Judge Rule Change ...
flomarching.com

DrumLine Battle: Shadow vs. 7th Regiment
dci.org

Blue Devils Drum line (: | Drum corps ...
pinterest.com

DCI Drumlines in the Lot - Great Path Music
greatpathmusic.com

Cavaliers Announce 2021 Percussion and ...
cavaliers.org

2019 SCV Percussion Leadership ...
scvanguard.org

2018 DCI World Championships
remo.com

Zombie drum line takes it home again at ...
dci.org

Crossmen Drumline @ DCI in Little Rock ...
clean-beats.com

DCI 2017 | Blue Devils - Drumline - YouTube
youtube.com

The Academy Drum an...
pinterest.com

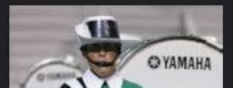
2021 Carolina Crown Drumline Exclusive ...
lothype.com

Related searches

blue devils drumline

drum line cast

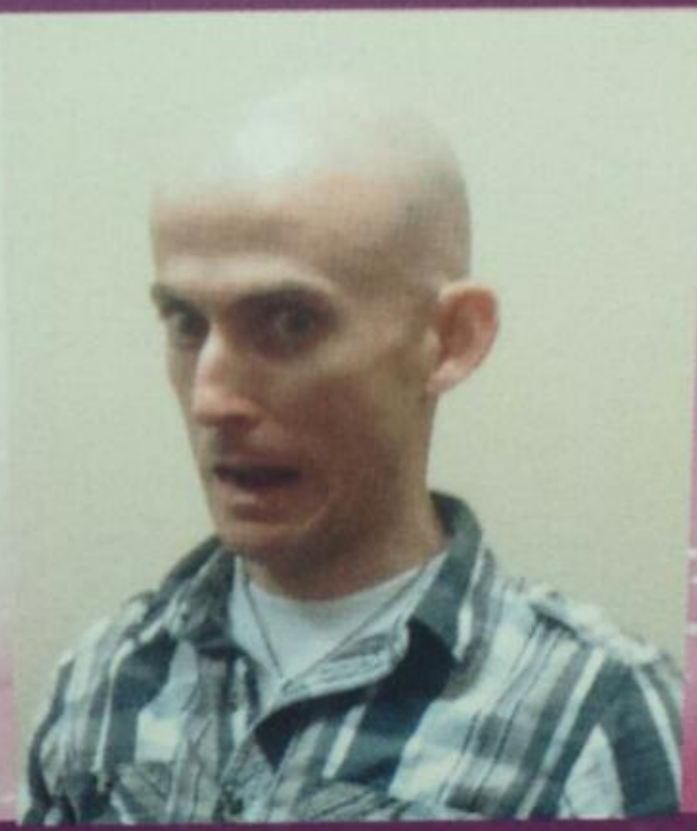
drum line shark



adillo Frontierotta Gallegos Garci

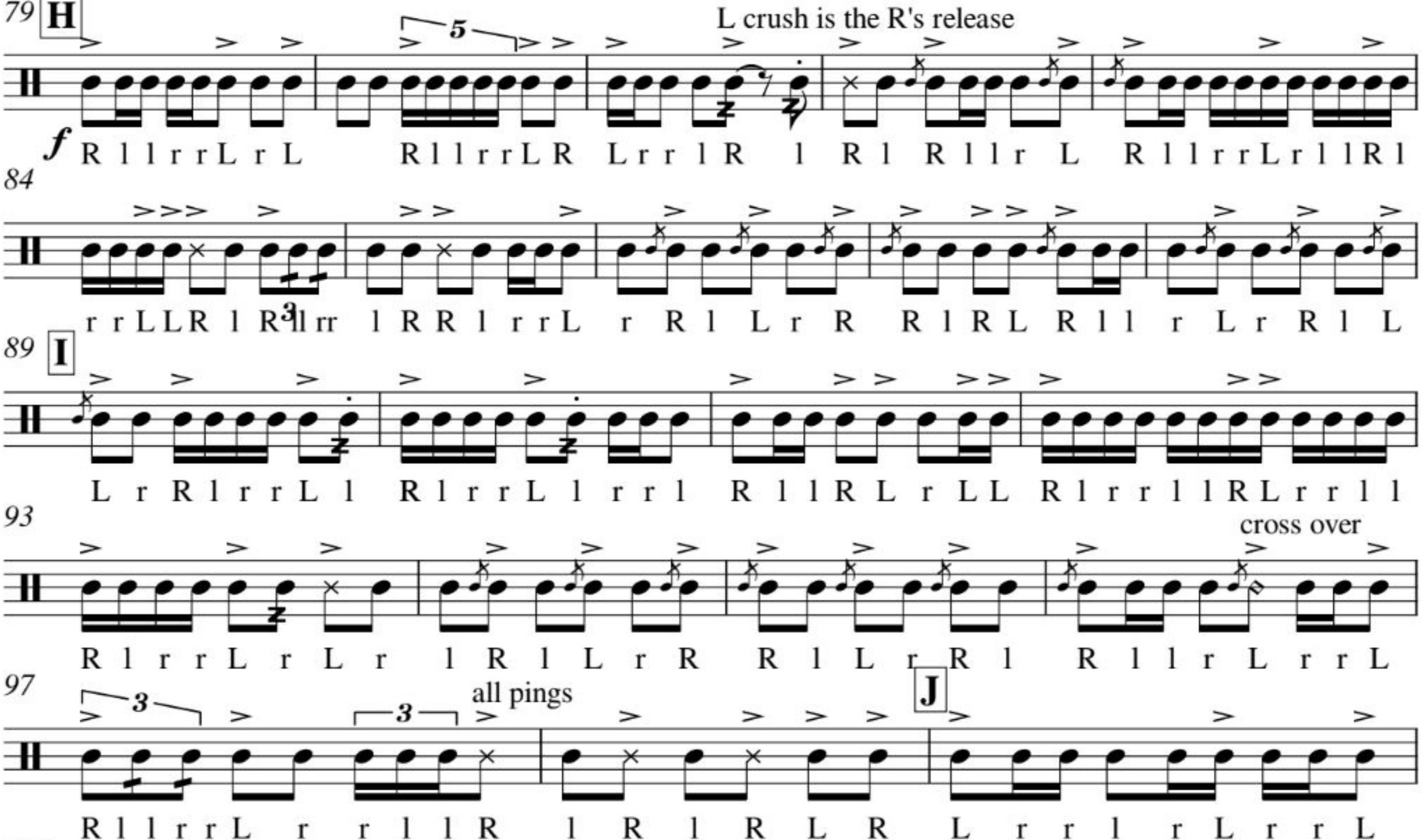
Mrs. Moore

Mrs. Nelson



Mr. O'Leary

Mr. Rubel


79
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97
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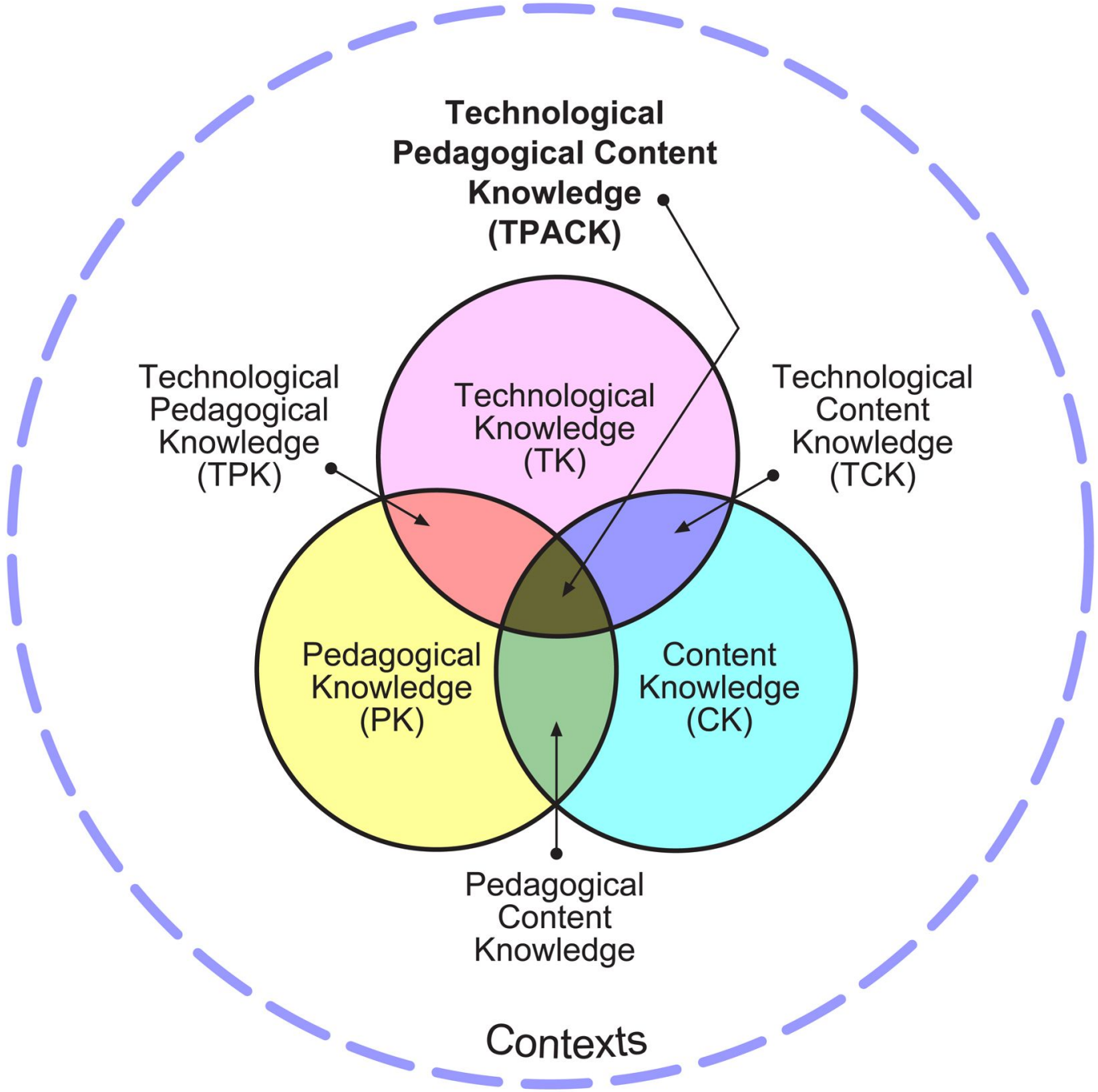
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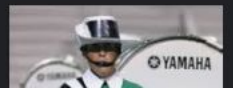

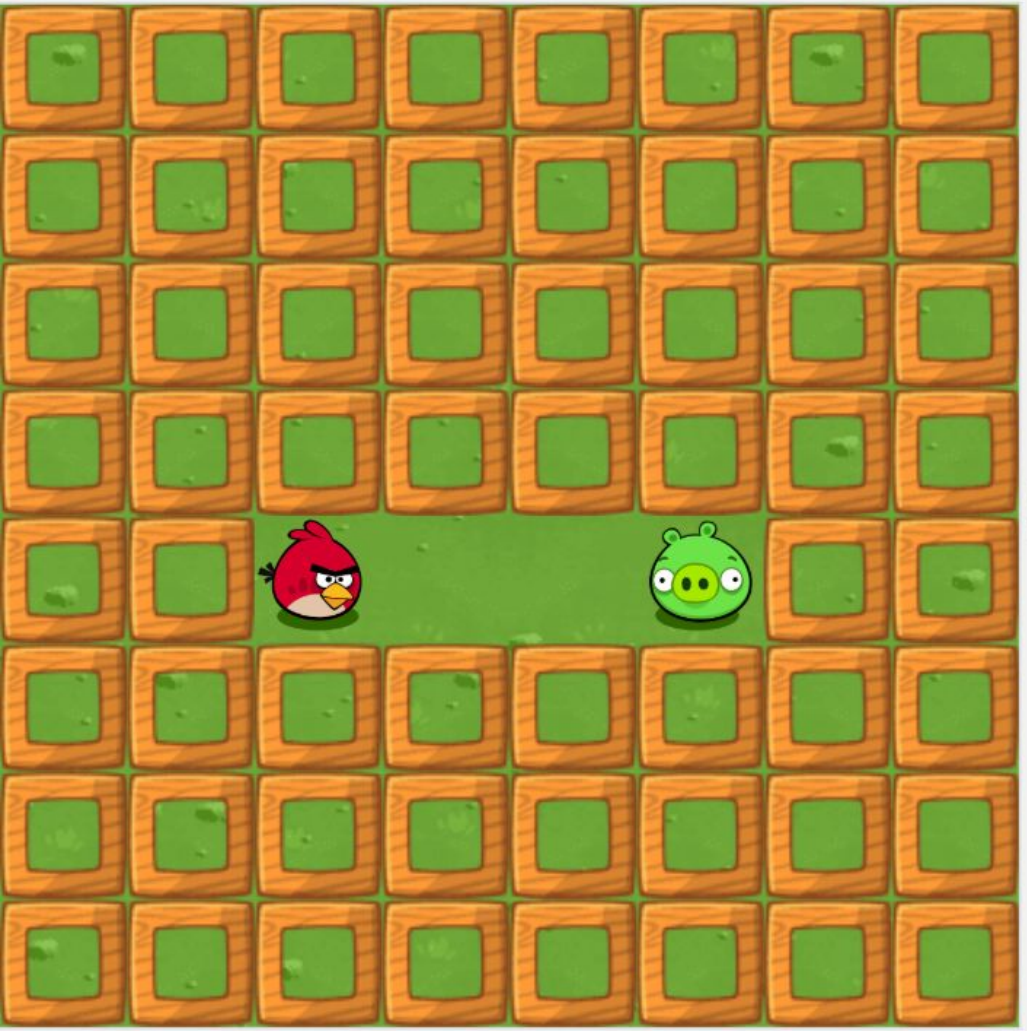

Run

Instructions

This pig is ruffling my feathers. Help me to find him!

Blocks

move forward

turn left ↺

turn right ↻

Workspace: 2 / 4 blocks

when run

move forward

Some podcasts on integration

Integration miniseries ***(I'd listen in the following order)***

- The Subservient, Co-equal, Affective, and Social Integration Styles and Their Implications for [Computer Science]
- Images of Curriculum
- Contemporary Venues of Curriculum Inquiry

Music integration episodes

- Intersections of Popular Musicianship and Computer Science Practices
- Reconceptualizing "Music Making:" Music Technology and Freedom in the Age of Neoliberalism

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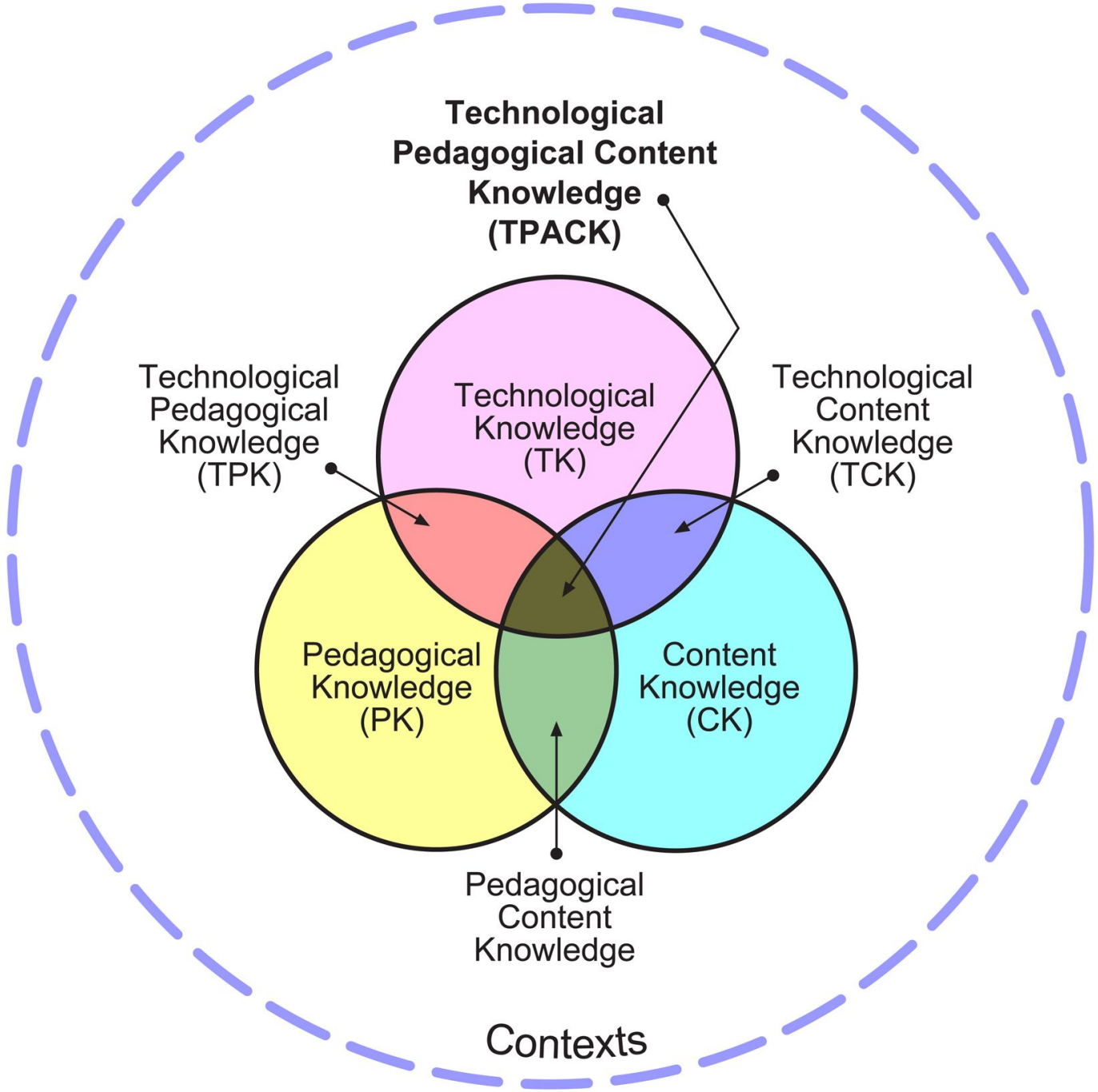
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01
Acknowledge Racism in CS and Enact Anti-Racist Practices
02
Create Inclusive and Equitable Classroom Cultures
03
Pedagogy and Curriculum are Rigorous, Relevant, and Encourage Sociopolitical Critiques
04
Student Voice, Agency, and Self-Determination are Prioritized in CS Classrooms
05
Family and Community Cultural Assets are Incorporated into CS Classrooms
06
Diverse Professionals and Role Models Provide Exposure to a Range of CS/Tech Careers

Rethinking our relationship to technology

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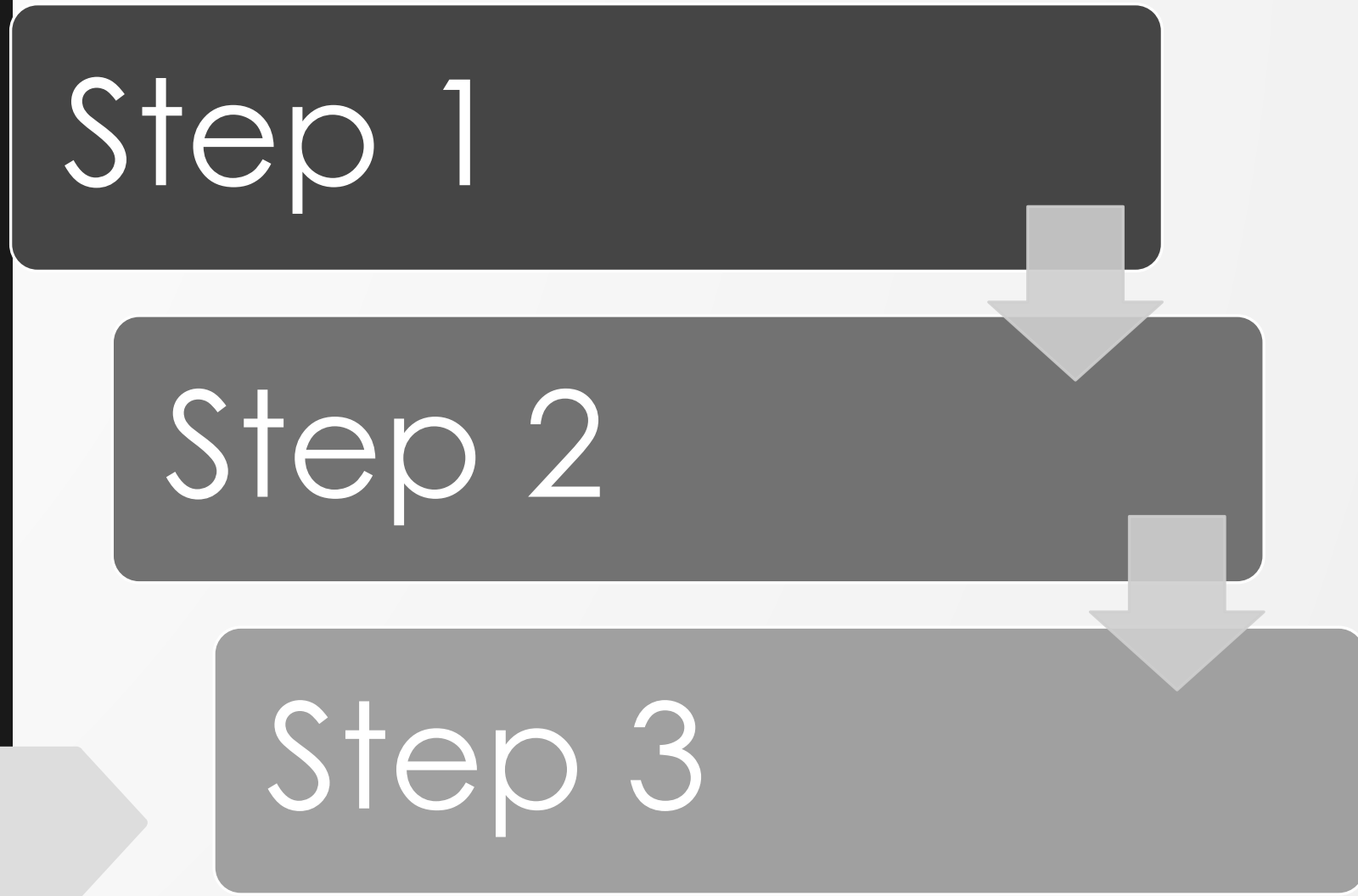
JAWS
Campbells

Sequential Design



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Rhizomatic Design

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Interconnected practices from my dissertation

- Composition practices
- Performance practices
- Maker practices
- Coding practices
- Entrepreneurial practices
- Visual art practices
- Community practices

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Affinity spaces

- **Affinity spaces podcast episode**
- **Affinity spaces chapter**

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Music-related hardware practices

- **Video:** I Turned a 1920's Typewriter into an EDM Drum Machine
- **Video:** Music Machines at Scratch Day MIT
- **Video:** BEAT JAZZ by ONYX ASHANTI
- **Images:** Hardware modifications shared within my dissertation
- **Playlist:** Hardware practices

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Exploring resources and examples

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Let's continue to talk and reflect

- How might we modify or create technologies for (and with) the students we work with?
- How might we engage in pedagogical practices that encourages multiple ways of learning and engaging with CS within a shared space?
- How might we modify content designed for scale to better align to the interests and goals of the individuals we work with?

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