

# Academic Technology Webinar: Mobile Devices in the Classroom

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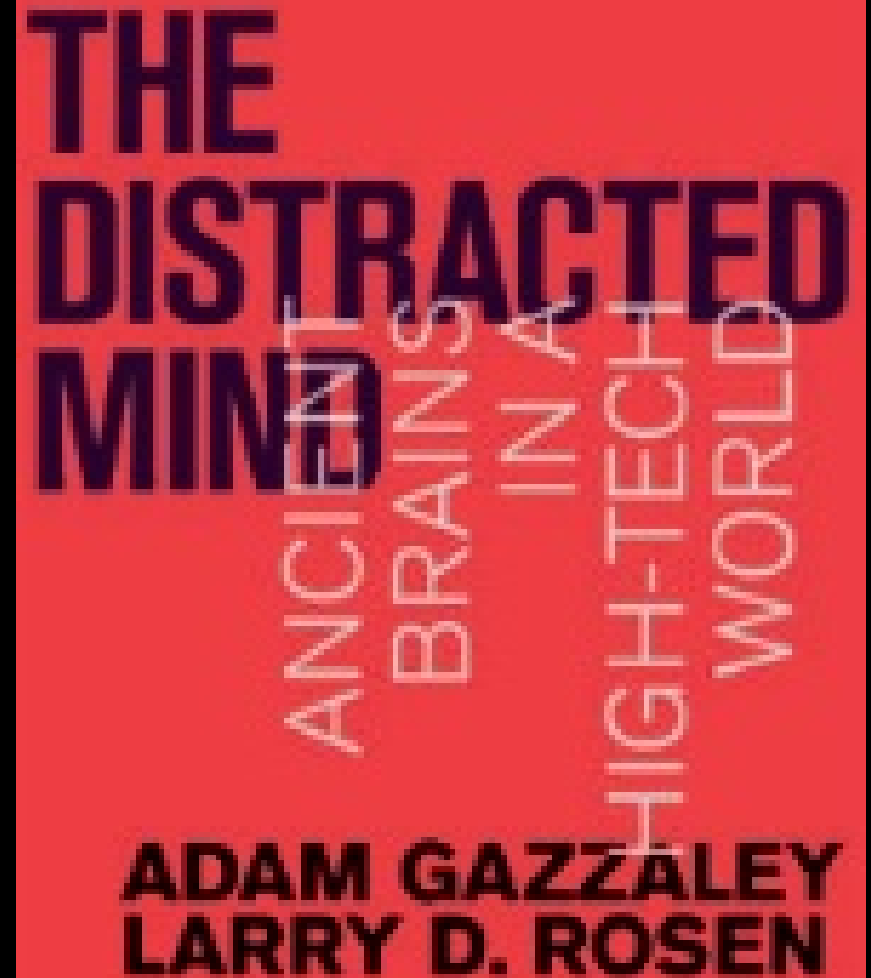
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Presenter: Jon Dorbolo

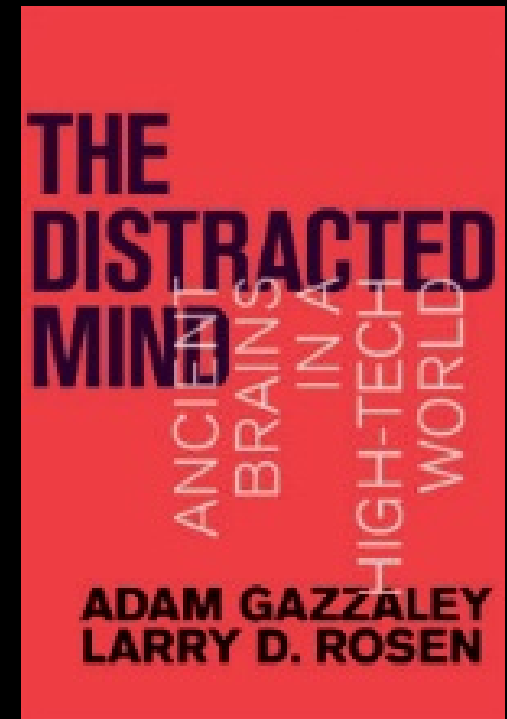
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# Student mobile device use



# Student mobile device use

“Our cognitive control abilities that are necessary for the enactment of our goals have not evolved to the same degree as the executive function required for goal setting.”



# Mobile device



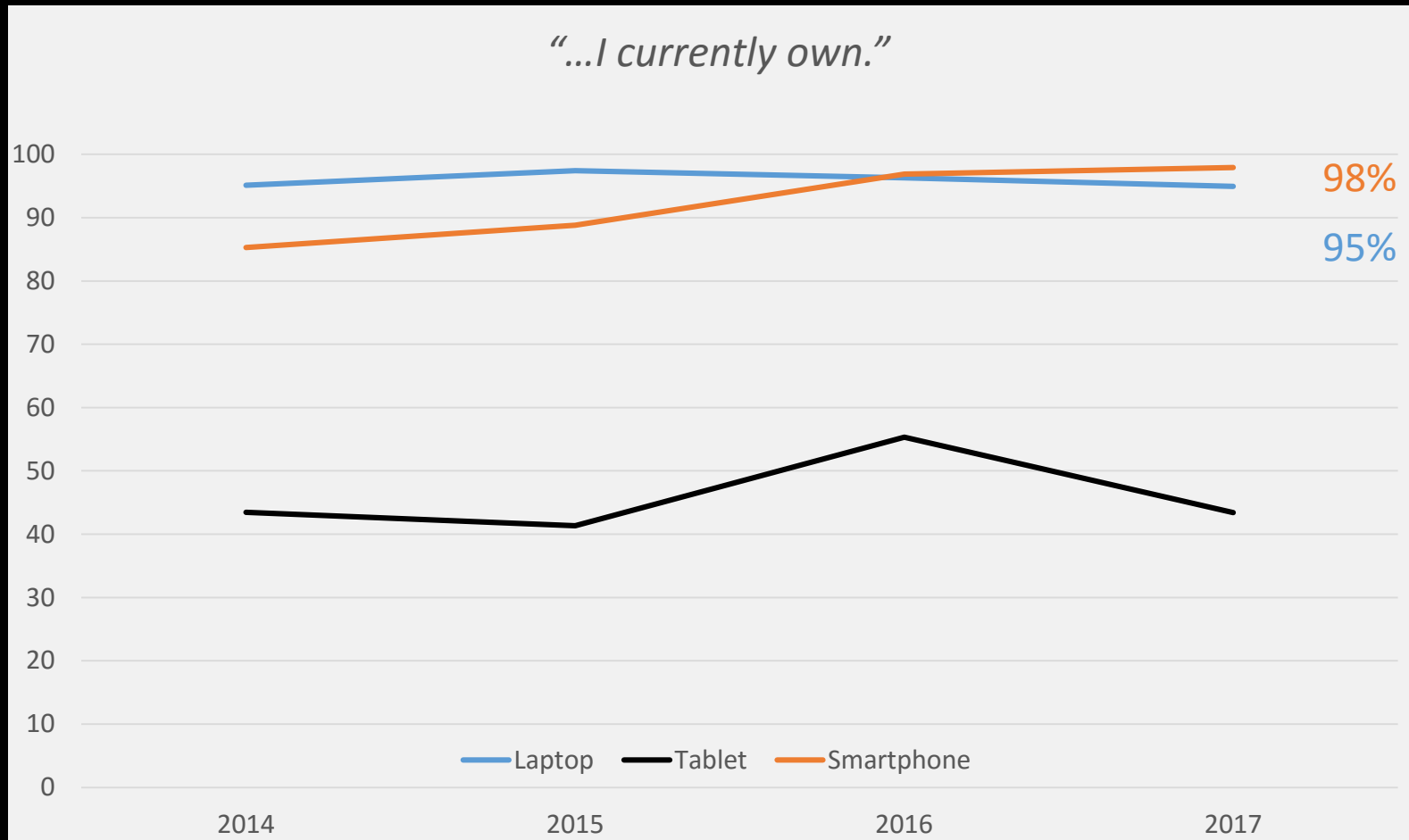
# Mobile devices



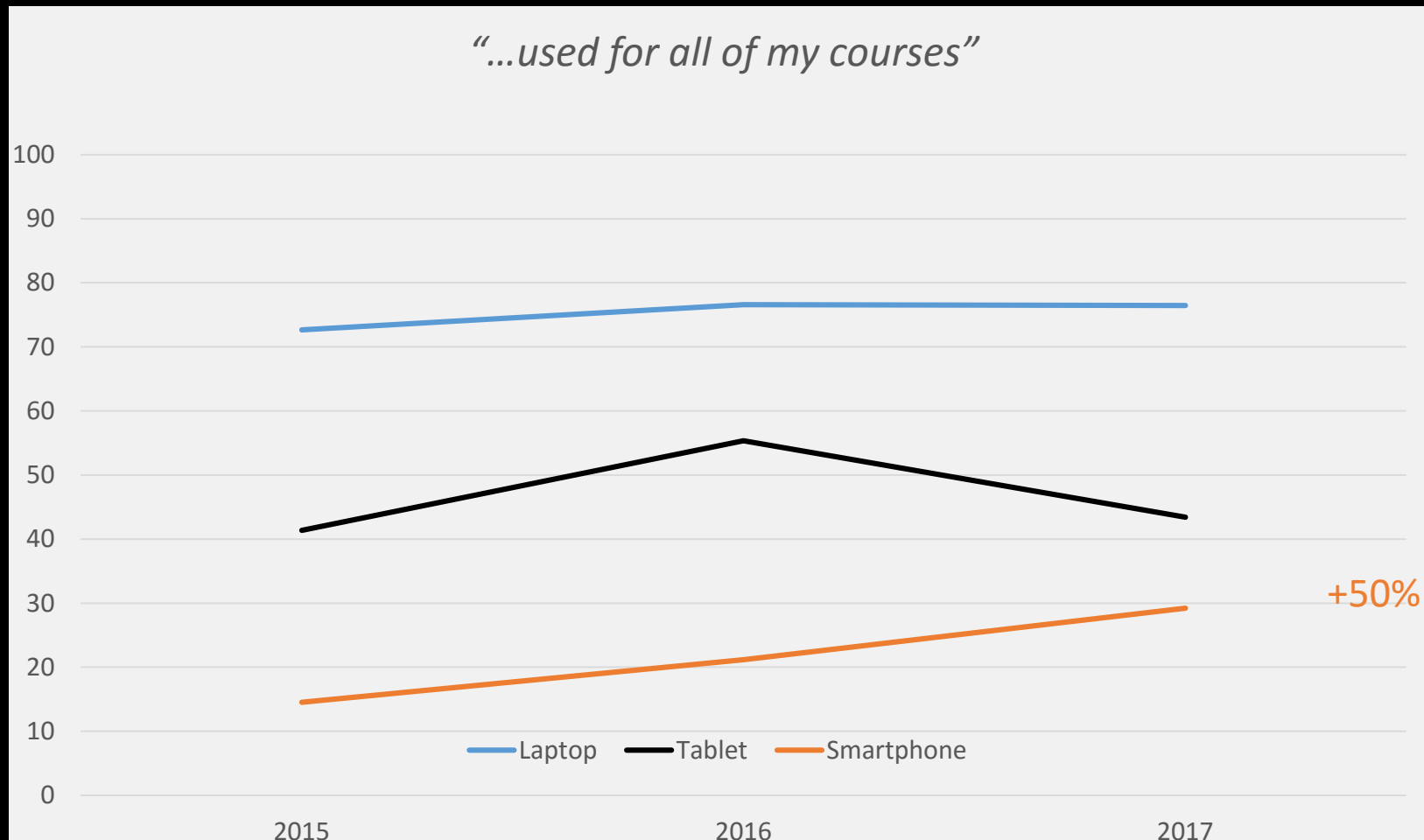
# Device functions



# OSU student mobile device ownership



# OSU student mobile device use





# Attention and distraction: research

Phone use in class correlated with lower GPA (Barkley et al. 2015).

Divided attention reduced long-term retention of the classroom lecture, which impaired subsequent unit exam and final exam performance (Glass & Kang, 2018).

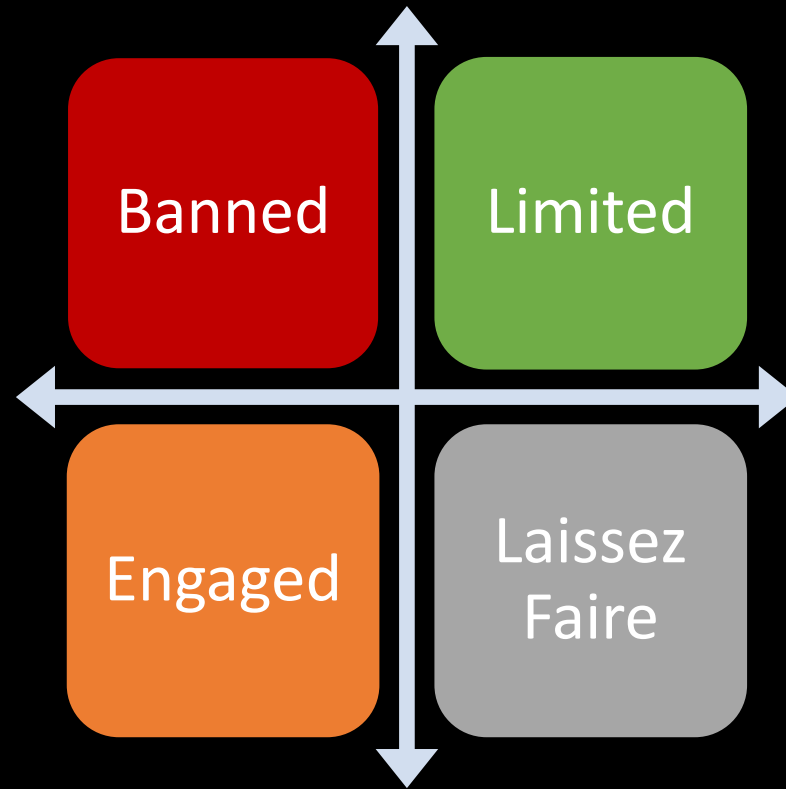
There was poorer final exam performance for those sections in which electronic devices were permitted (Carter, Greenberg, & Walker, 2016).

Negative correlation between the amount of time spent using an mobile device for non-academic purposes during class and subsequent exam performance using both self-report measures of electronic device use (Fried, 2008; Jacobsen & Forste, 2011; Junco, 2012; Ravizza, Hambrick, & Fenn, 2014).

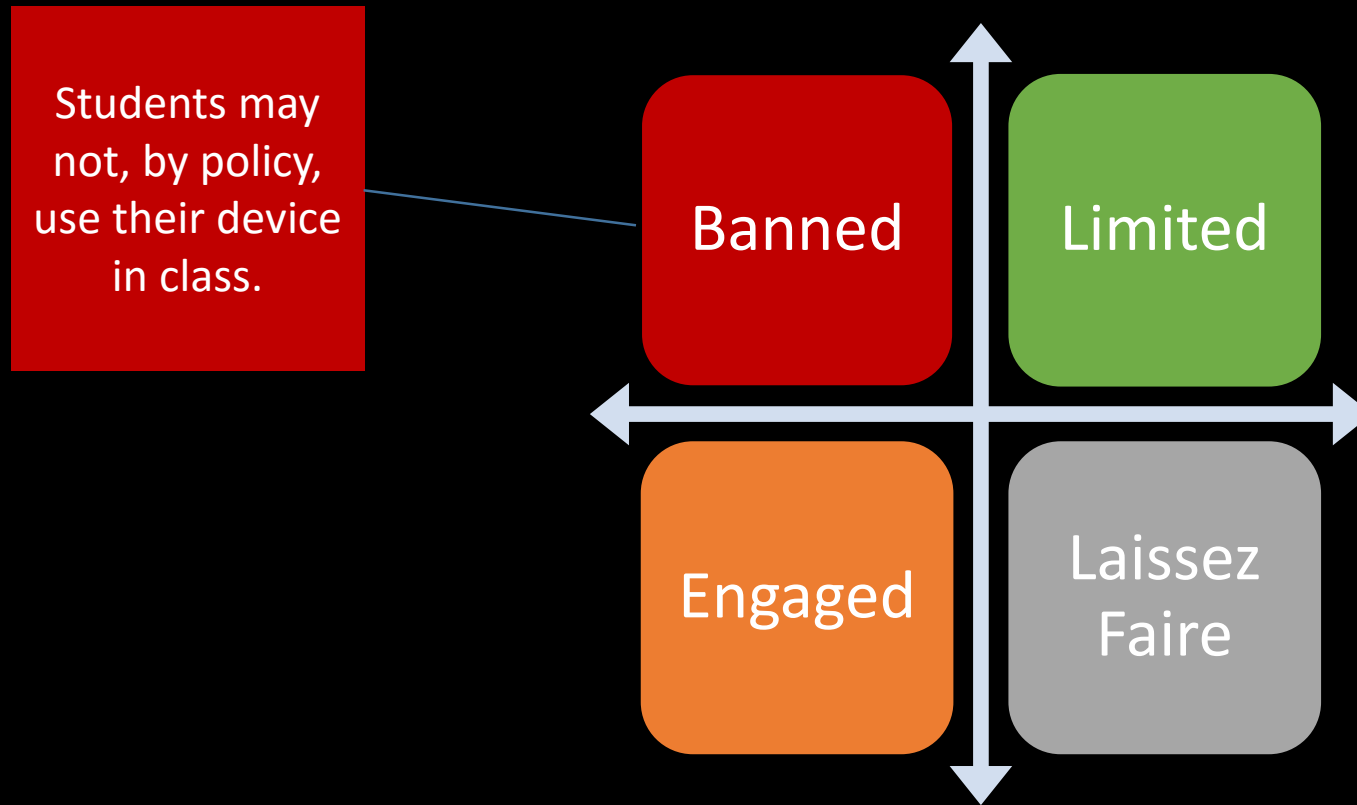
# Attention and distraction: research

Shy learners are more likely to participate via technology (Brown, E. et al. 2014)

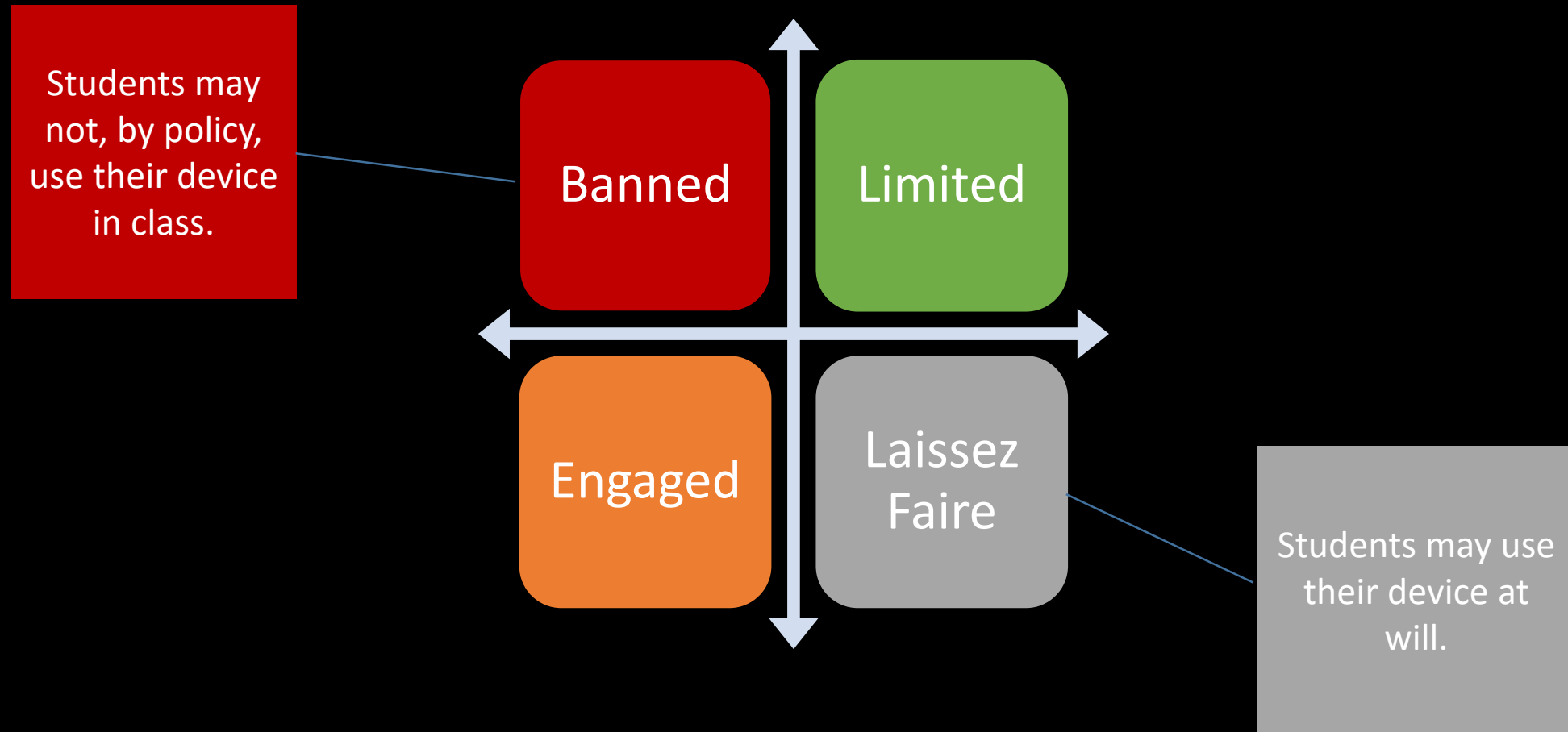
# Field of instructor responses to student device use



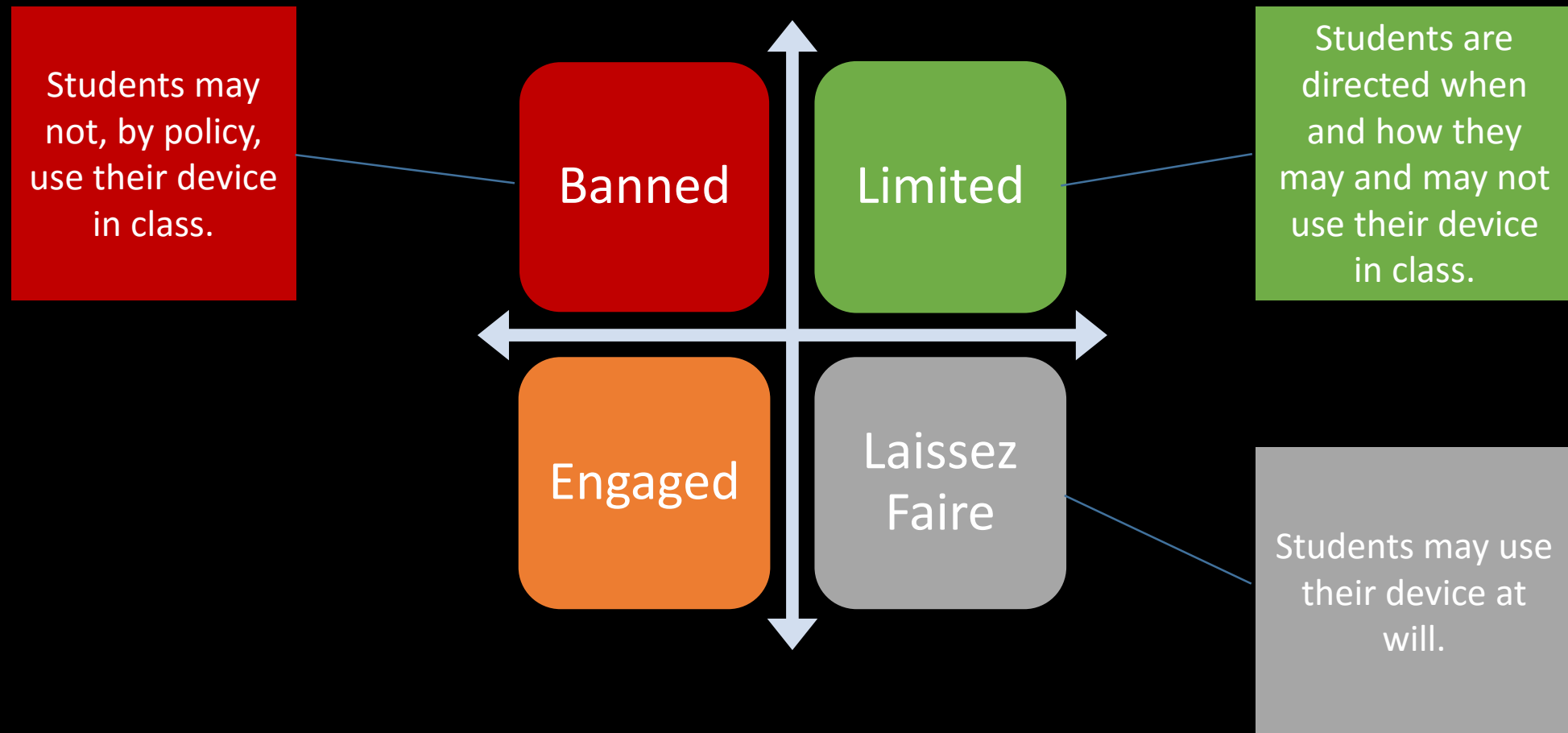
# Field of instructor responses to student device use



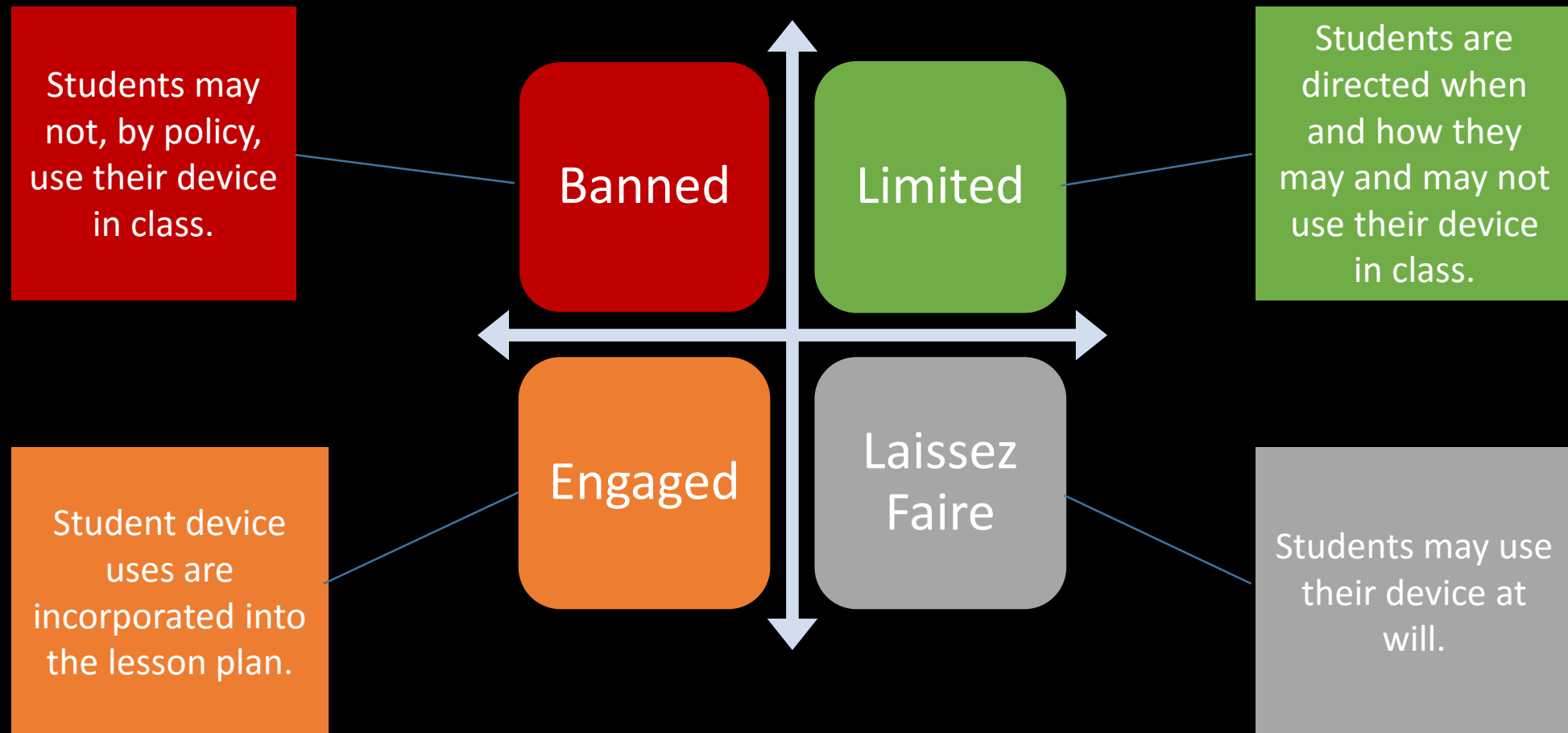
# Field of instructor responses to student device use



# Field of instructor responses to student device use



# Field of instructor responses to student device use



# Mobile Device Options: **Banned**

Make your policy clear stated in the syllabus.

Make your enforcement consistent and fair.

Give evidence-based reasons for the policy.

i.e. research showing impact on attention and grades.



# Mobile Device Options: Limited

Define Class Mode for devices.

*Audio off.*

*Notifications off.*

*Dim screen.*

*Ask others whether your device use interferes.*

*Tell others when their device use interferes.*

# Mobile Device Options: Engaged

Develop class activities for device use.

Make device use (and non-use) part of your teaching strategy.

Include student work into your class via Airmobile or Visualizer.

# Device functions



A word cloud of device functions. The words are arranged in a roughly triangular shape, pointing upwards and to the right. The words include: Communicate, Video, Cite, Post, Save, Calculate, Note, Search, Write, and Image.

Image

# Pedagogical functions



A word cloud of pedagogical functions. The words are arranged in a roughly triangular shape, pointing upwards and to the right. The words include: Exemplify, Analyze, Classify, Explain, Paraphrase, Discuss, Test, Estimate, Infer, Measure, Solve, Identify, Apply, Define, and Compare.

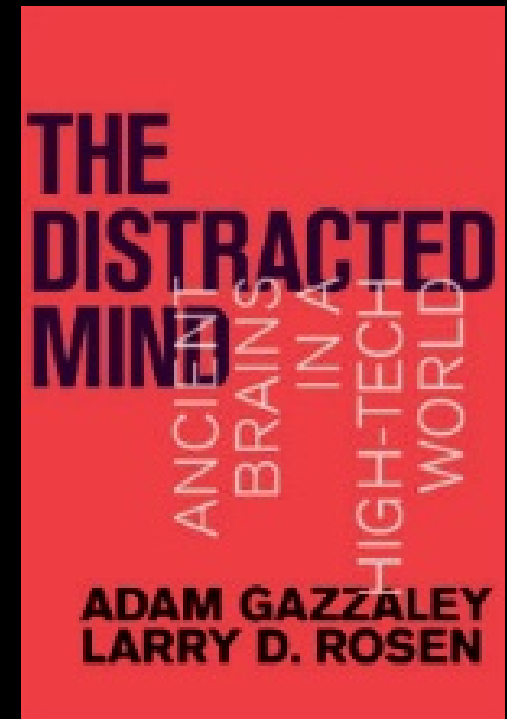
Hypothesize  
Choose

# Mobile Device Options: Example activities

- Create a Box site shared with students. Have students use the box app to acquire relevant information during class.
- Use Canvas App for students to communicate ideas to groups during class.
- Use TopHat to poll students during class.
- Students use search to find examples that exemplify lesson.
- Use Canvas App for student to add events to their Canvas calendar.

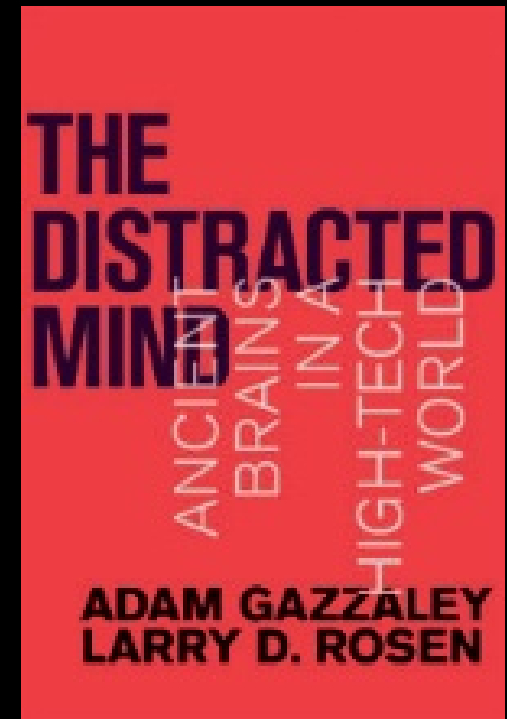
# Student mobile device use

“Goal interference occurs when you reach a decision to accomplish a specific goal and something takes place to hinder successful completion of that goal.



# Student mobile device use

“At our core we are information-seeking creatures, so behaviors that maximize information accumulation are optimal.”



# Mobile Devices: Engaged

CONDITIONING IN DEVICE DISENGAGEMENT/ENGAGEMENT.

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REGULAR EXERCISE OF INSTRUCTIONAL PREROGATIVE.

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INTENTIONAL DEVICE USE FOR LEARNING.

# Mobile devices





# Sources

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# Mobile Devices: taking control of your class

CONDITIONING IN DEVICE DISENGAGEMENT/ENGAGEMENT.

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REGULAR EXERCISE OF INSTRUCTIONAL PREROGATIVE.

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INTENTIONAL DEVICE USE FOR LEARNING.

For follow-up questions and comments, email:

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