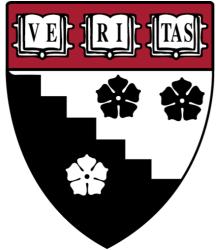
## Leading with a Growth Mindset in an Era of Increased Performance Demands

David Dockterman, Ed.D. Harvard Graduate School of Education Houghton Mifflin Harcourt twitter: @dockterman

### **Turning Students into Learners**





Houghton Mifflin Harcourt

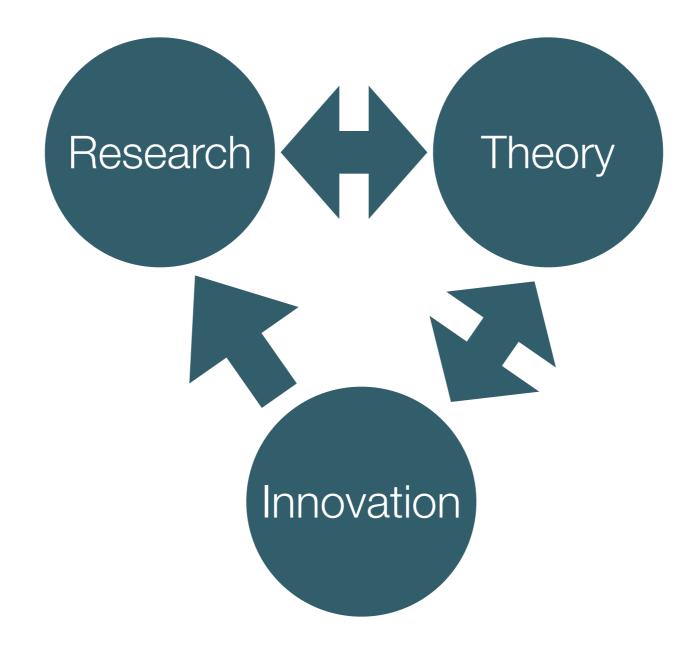


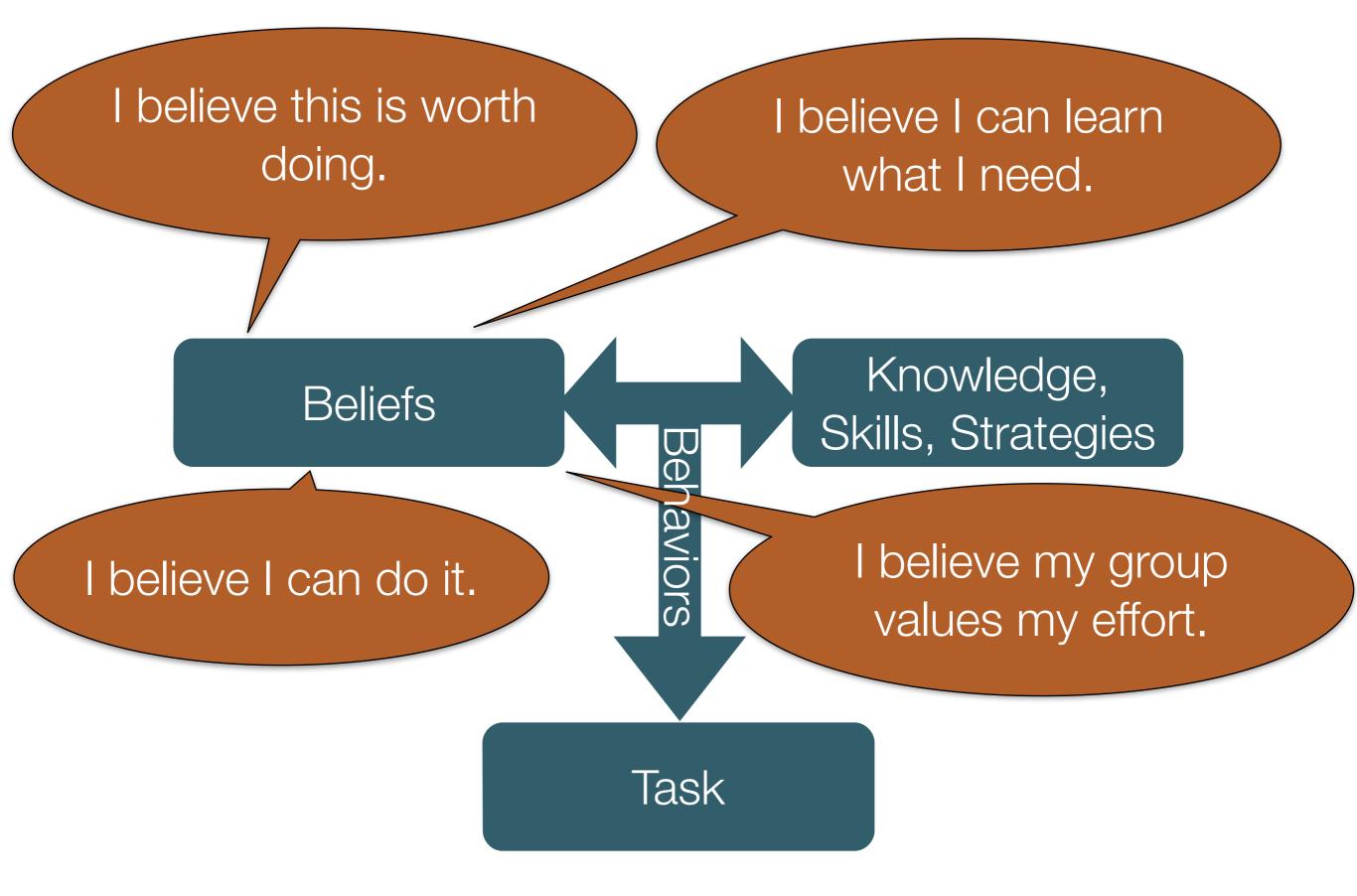
#### GRADUATE SCHOOL OF EDUCATION

Working at the Nexus of Practice, Policy, & Research



### A Framework: Theory Drives Action







THE UNIVERSITY OF CHICAGO CONSORTIUM ON CHICAGO SCHOOL RESEARCH

#### LITERATURE REVIEW JUNE 2012

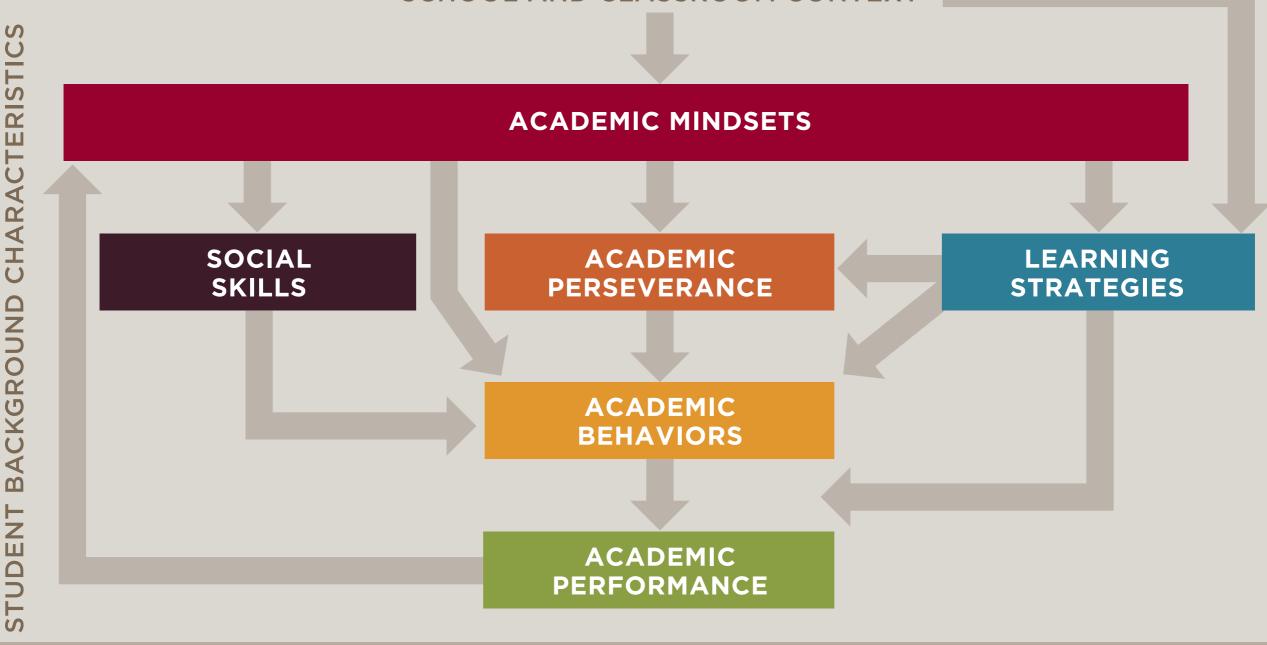
### Teaching Adolescents To Become Learners The Role of Noncognitive Factors in Shaping School Performance: A Critical Literature Review

## What makes someone a learner?

Farrington, et.al., 2012

#### SOCIO-CULTURAL CONTEXT

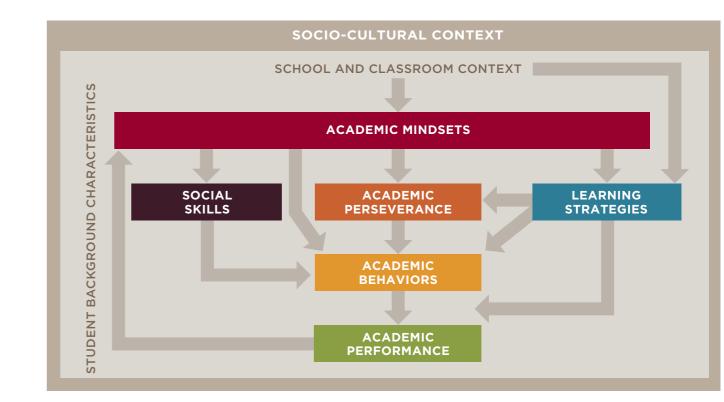
#### SCHOOL AND CLASSROOM CONTEXT



Beliefs that drive behavior

### Beliefs that Underlie Performance

- "This work has value for me" (expectancy-value theory).
- "I can succeed at this" (self-efficacy).
- "My ability and competences grow with my effort" (implicit theories of ability).
- "I belong in this academic community" (sense of belonging)

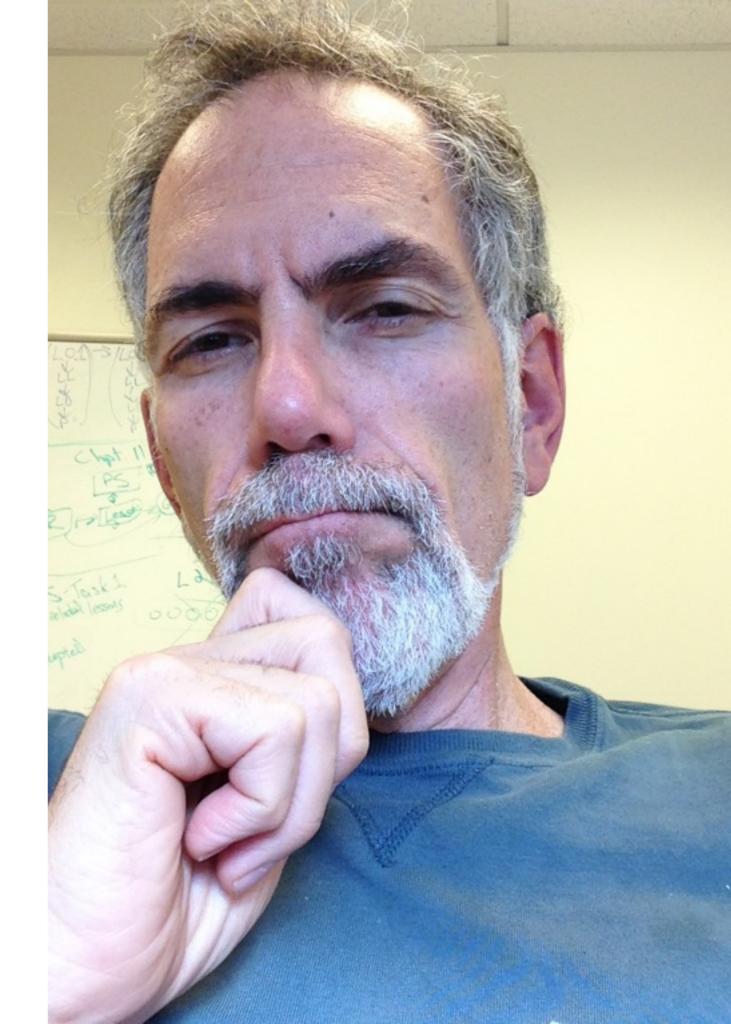


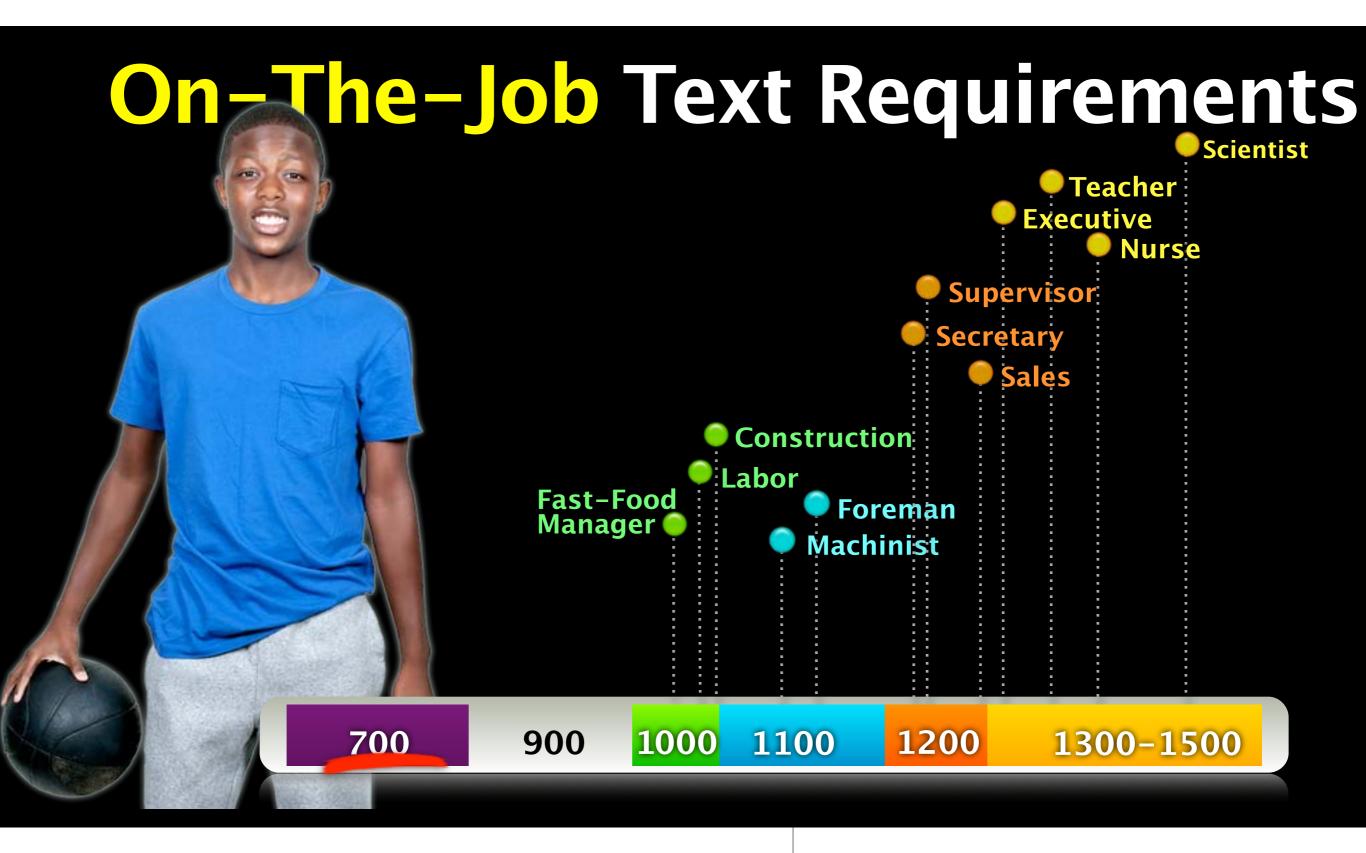
### Three Questions

- 1. How do we get students to believe school is worth doing?
- 2. How do we get students to believe success is possible...even when it's hard?
- 3. How do we create a climate for productive struggle, where students believe it's okay to stumble on the path to learning?

### Get you thinking...

- What makes something "worth doing" for you?
- What makes something relevant?
- What makes something interesting?





### A Vision of the Future

Seeing that school matters

Dockterman 2015



### Put Application Up Front





### Let them play

even if they're bad at it

## From Careers to Causes

Self-transcendence - Contributing to something bigger than ourselves

	s your	c disast	er plai
	ake hit while you w	e. How would you respor ere in school? <mark>Propose a</mark>	
Brainstorm risks.	ist two possible disa	sters that could hit your are	ea.
A			
В			
		eople have during an emerg ol that would be affected.	jency?
	groupe at your corre-		
Groups Affected		Questions	
Teachers and School Officials	• what is the be	st way to communicat building?	e the plan
Students			
Parents			
Add five more actions students to take.	to the web. Then, cir	happen during a disaster. rcle the three best actions	for
Fo	llow instructions	caretully.	
	What nee		
		102	
	to be dor	ne?	and the







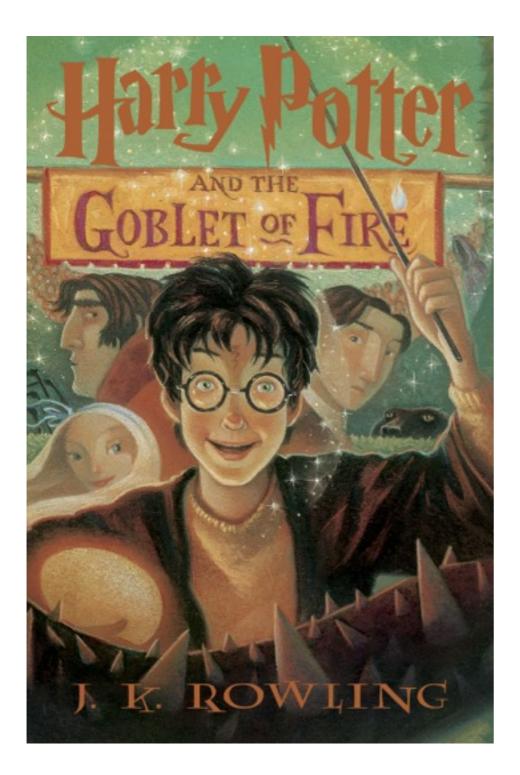
#### Belonging to something important

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### Being exceptional

not the exception



THE COMPLETE BEST-SELLING CLASSIC

## J.R.R. TOLKIEN

H ANNIVERSARY ONE-VOLUME EDITION

# And it should be interesting

like a good story

Play Doh Sparkle Princess Ariel Elsa Anna Disney Froz	ten MagiClip	
Glitter Glider Princesas Magic Clip		
<b>Subscribe</b> 4,019,308	227,836,744	
+ Add to < Share ••• More	1 <b>6</b> 👎	

#### Unboxing – the YouTube phenomenon that lets you see what you're getting

First it was 'haul girls' showing off their purchases, now it's videos of people unpackaging toys – and they're potentially Dockterman 2016 king millions

#### UNCERTAIN REWARD MORE MOTIVATING THAN SURE THING, STUDY FINDS

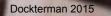
October 13, 2014





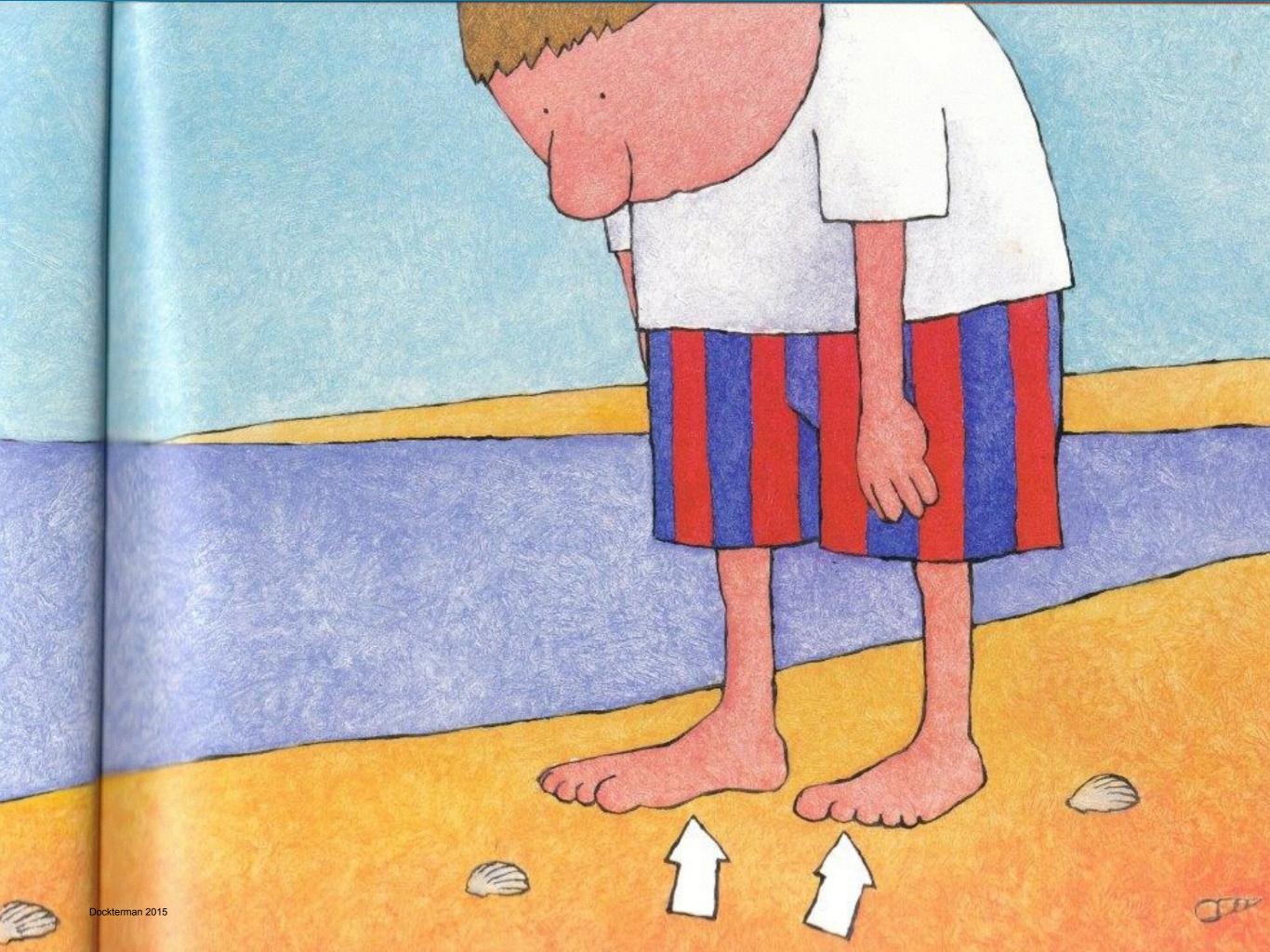


Reality TV drama - what do you think is going to happen?

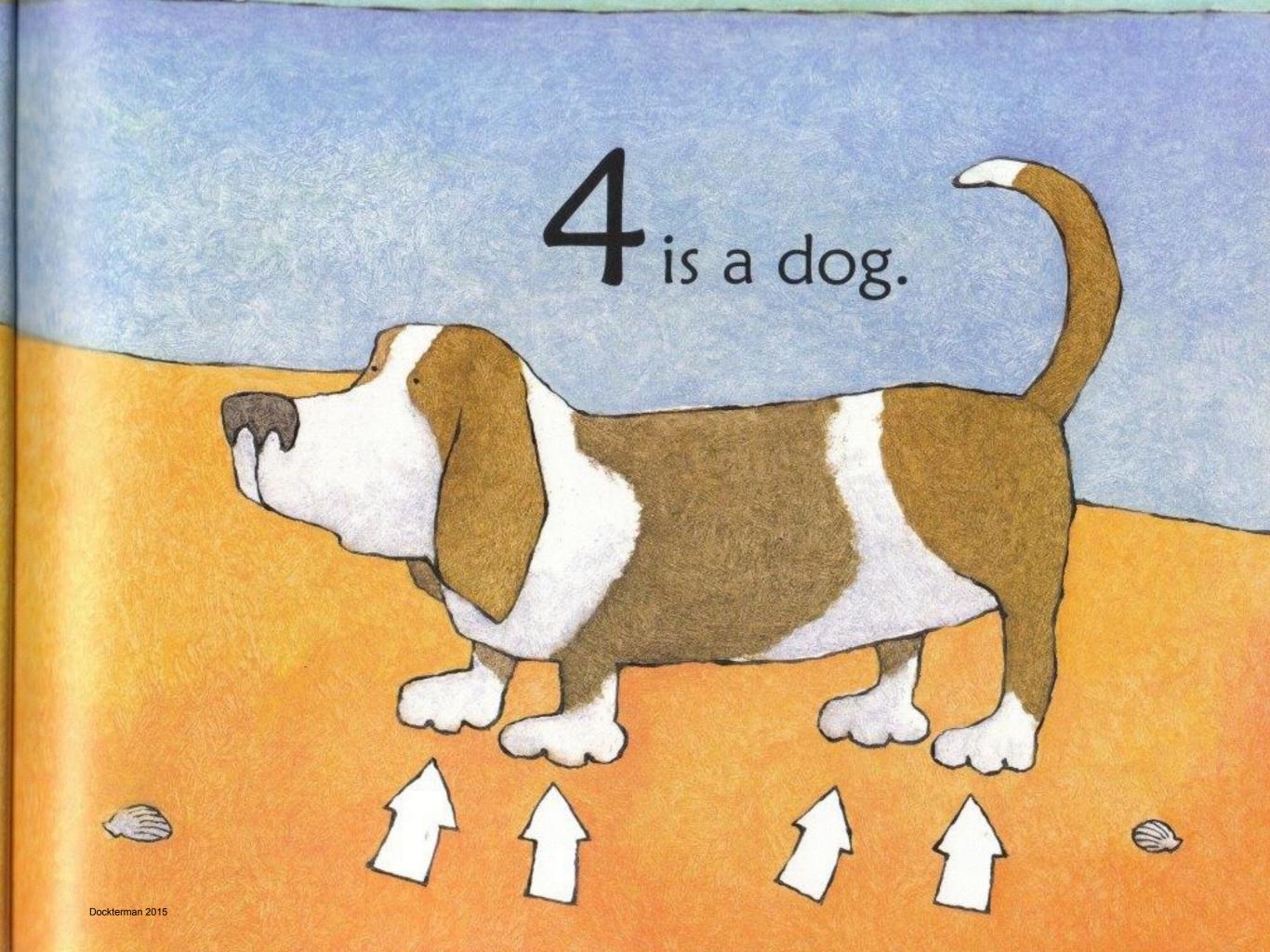


アメリカあをえた

CRAS



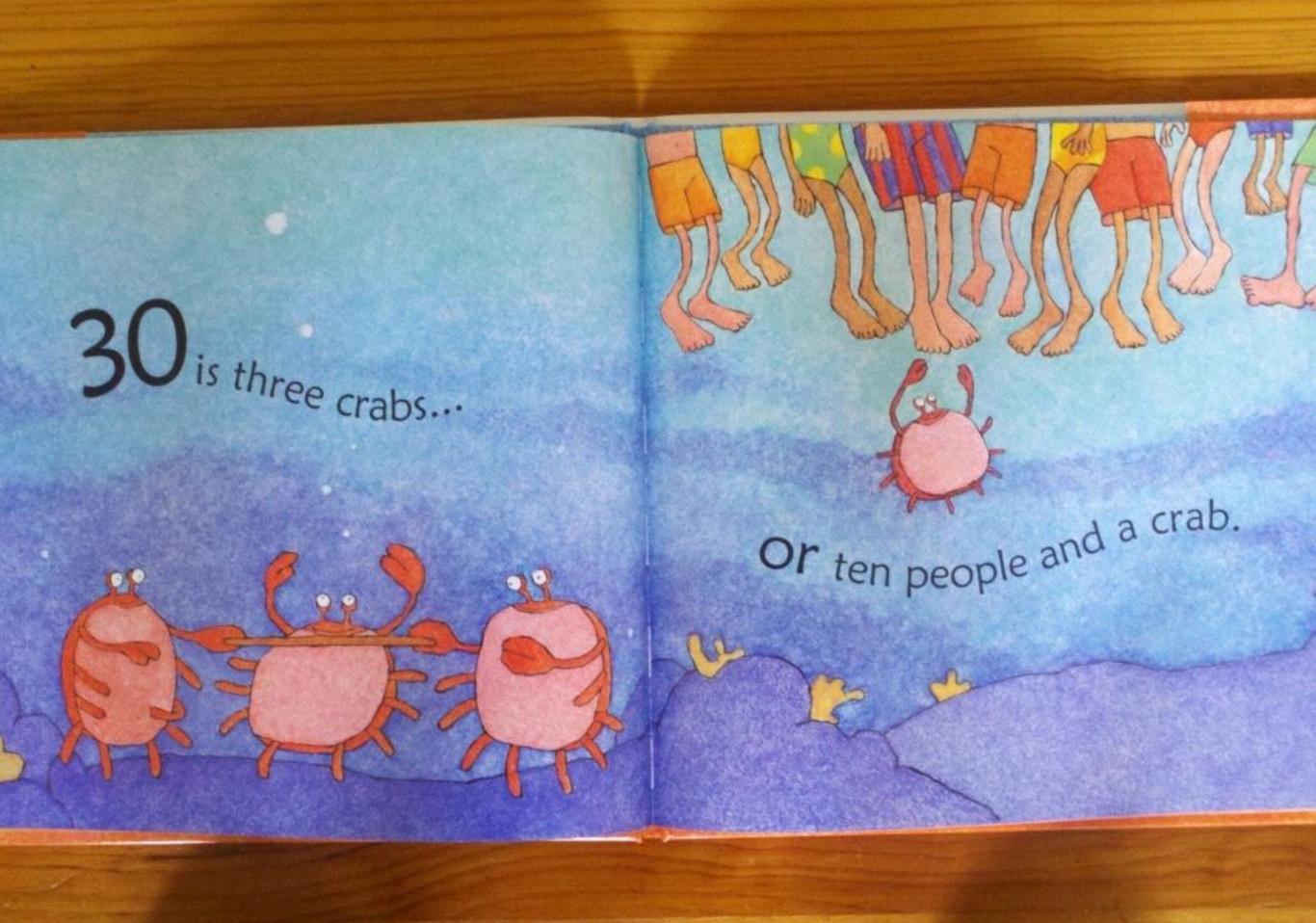
### 5 is a person and a snail.





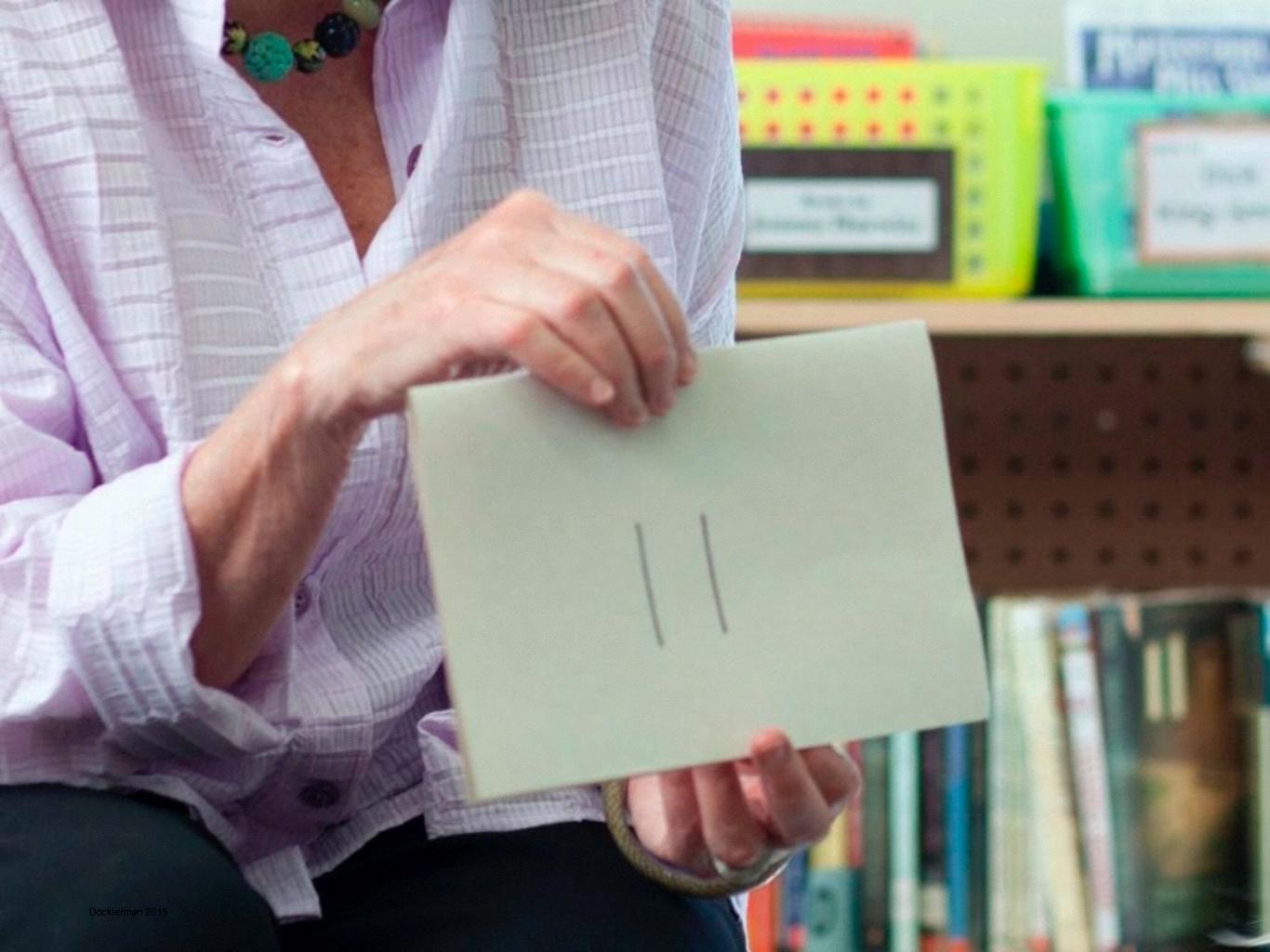
## 20 is two crabs.

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# so, 100

### is ten crabs...



# Zdogs + 1 person +1 snu.

## 11=8+2+1



11 = 1 insect + 5 snails 11 = 6 + 5

### Predicting provides agency... so does choice.





Can You Believe It?



Predators



Logout

Mummies, Bones, and Garbage



It's How You Play the Game



Thrills and Chills



One Man's March





SCHOLASTIC



### Choice Fuels Value

"I picked it, so I must like it."

**BENERALISABONARIAN** 

**JN 3** 

### How do we make school worth doing?

- connect to the future careers and causes (that they choose)
- make it interesting, with a little uncertainty and drama
- give learners agency and choice

### "Do or do not. There is no try." – Yoda, Empire Strikes Back (1980)

2. How do we get students to believe success is possible?

even when it's hard

Dockterman 2015

### Identity

#### The Disengaged Deflector

### The Arrogant Performer

### Three student profiles

The Humble Learner

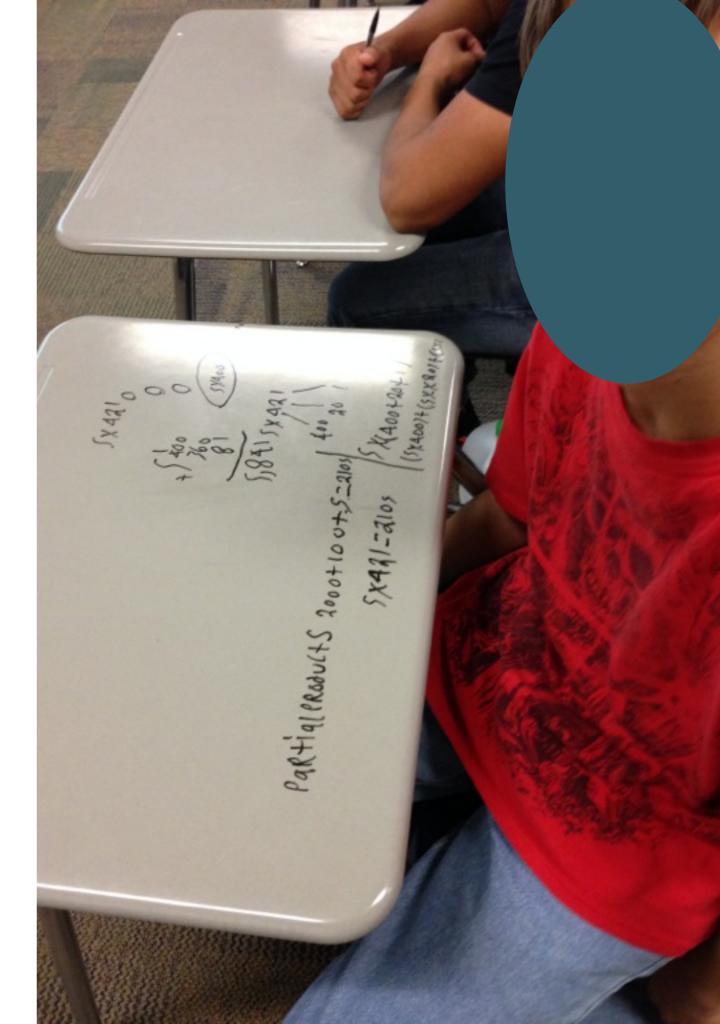


## I was all of them.

Identity is fluid.

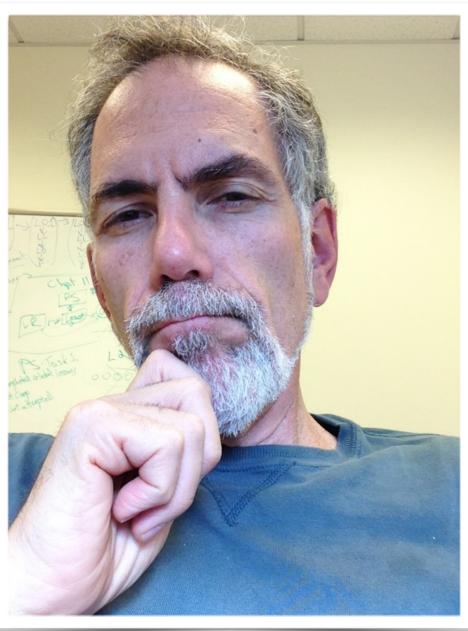
# Fluid Confidence

- "I can multiply like no other!"
- "But I can't do fractions..."

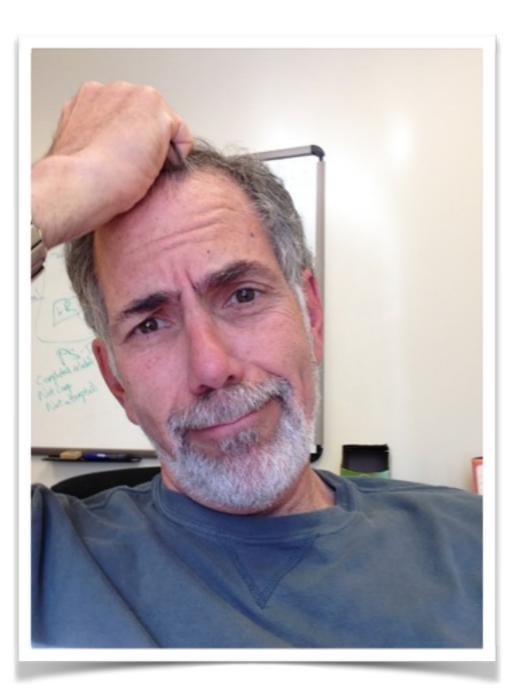




### Persevere



Surrender



Dockterman 2015

- Could everyone else do it except me?
- Or was it something about one of my identities: fat, color blind, Jewish, straight A, midwestern, public school, lefthanded?



June 22, 2015

# Manning up: Men may overcompensate when their masculinity is threatened

#### **Deborah Bach**

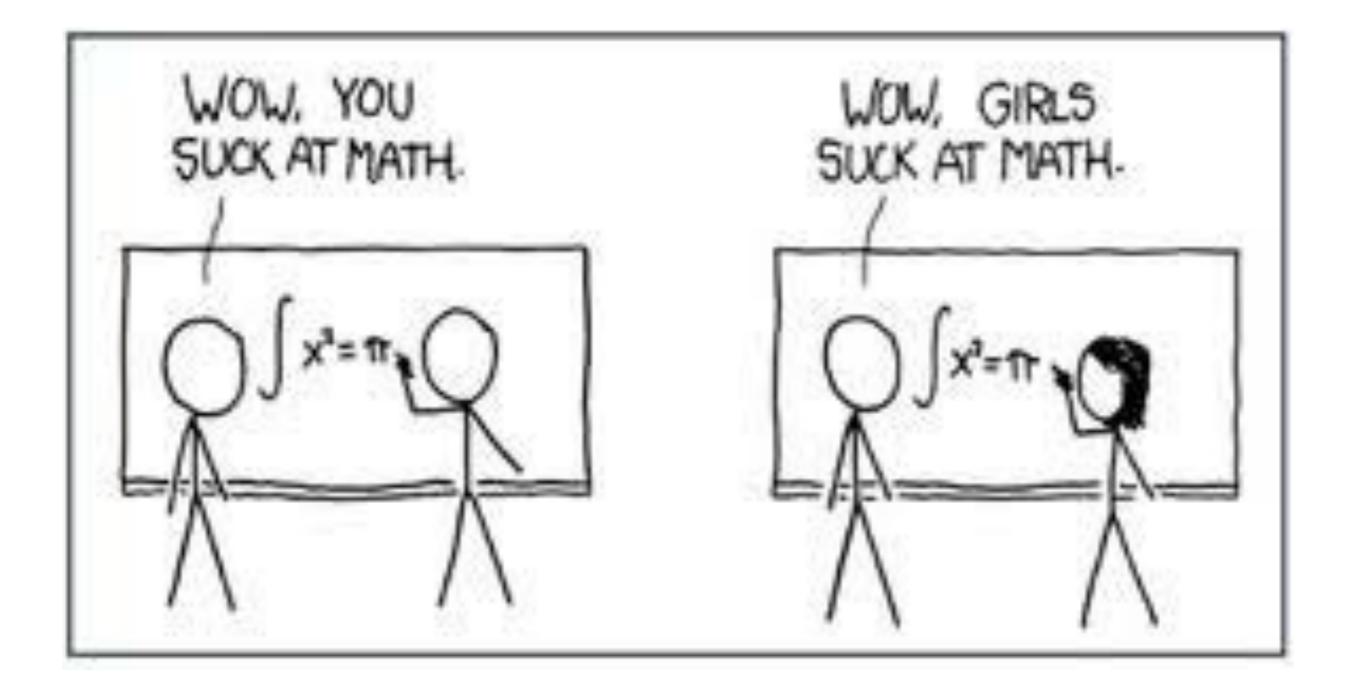
News and Information

From the old Charles Atlas ads showing a scrawny male having sand kicked in his face to sitcom clichés of henpecked husbands, men have long faced pressure to live up to ideals of masculinity.

Societal norms dictating that men should be masculine are powerful. And new University of Washington research finds that men who believe they fall short of those ideals might be prompted to reassert their masculinity in small but significant ways. Iess dangerous, according to a new study.

## Identity Associations

Gender, Race, Ethnicity, and more



## Stereotype Threat

"maybe it's because I'm a girl"

# What's Your Academic Identity?

- Your students'?
- Your classroom?
- Your school?

# a place for students who can and can't

#### Or

### a place for students who have and haven't yet



# Prime the Desired Identity

- It's subtle
- Do a values affirmation
- Identify family heroes
- Build a classroom and school identity (more to come)

British Journal of Educational Psychology (2010), 80, 99–119 © 2010 The British Psychological Society



www.bpsjournals.co.uk

#### A versus F: The effects of implicit letter priming on cognitive performance

Keith D. Ciani<sup>1</sup>\* and Kennon M. Sheldon<sup>2</sup>

<sup>1</sup>Department of Educational, School, and Counseling Psychology, University of Missouri, Columbia, USA

<sup>2</sup>Department of Psychological Sciences, University of Missouri, Columbia, USA

**Background.** It has been proposed that motivational responses outside people's conscious awareness can be primed to affect academic performance. The current research focused on the relationship between primed evaluative letters (A and F), explicit and implicit achievement motivation, and cognitive performance.

**Aim.** Given the evaluative connotation associated with letter grades, we wanted to know if exposure to the letter A before a task could improve performance, and exposure to the letter F could impair performance. If such effects are found, we suspected that they may be rooted in implicit approach versus avoidance motivation, and occur without participants' awareness.

"What values are important to you, and why do they matter?"







0+0	0+1	0+2	0+3	0+4	0+5	0+6	0+7	0+8	0+9	
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2+0	2+1	2+2	2+3	2+4	2+5	2+6	2+7	2+8	2+9	
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8+0	8+1	8+2	8+3	8+4	8+5	8+6	8+7	8+8	8+9	8
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		м	y Facts	fast 75	focus 0	study 25	5			
								-	-	
EXIT O 🗐 Click Go to start GO										

## Progress through Skills

**FASTT Math Next Generation** 

Alex Perez

Dockterman 2015



## Progress through Skills

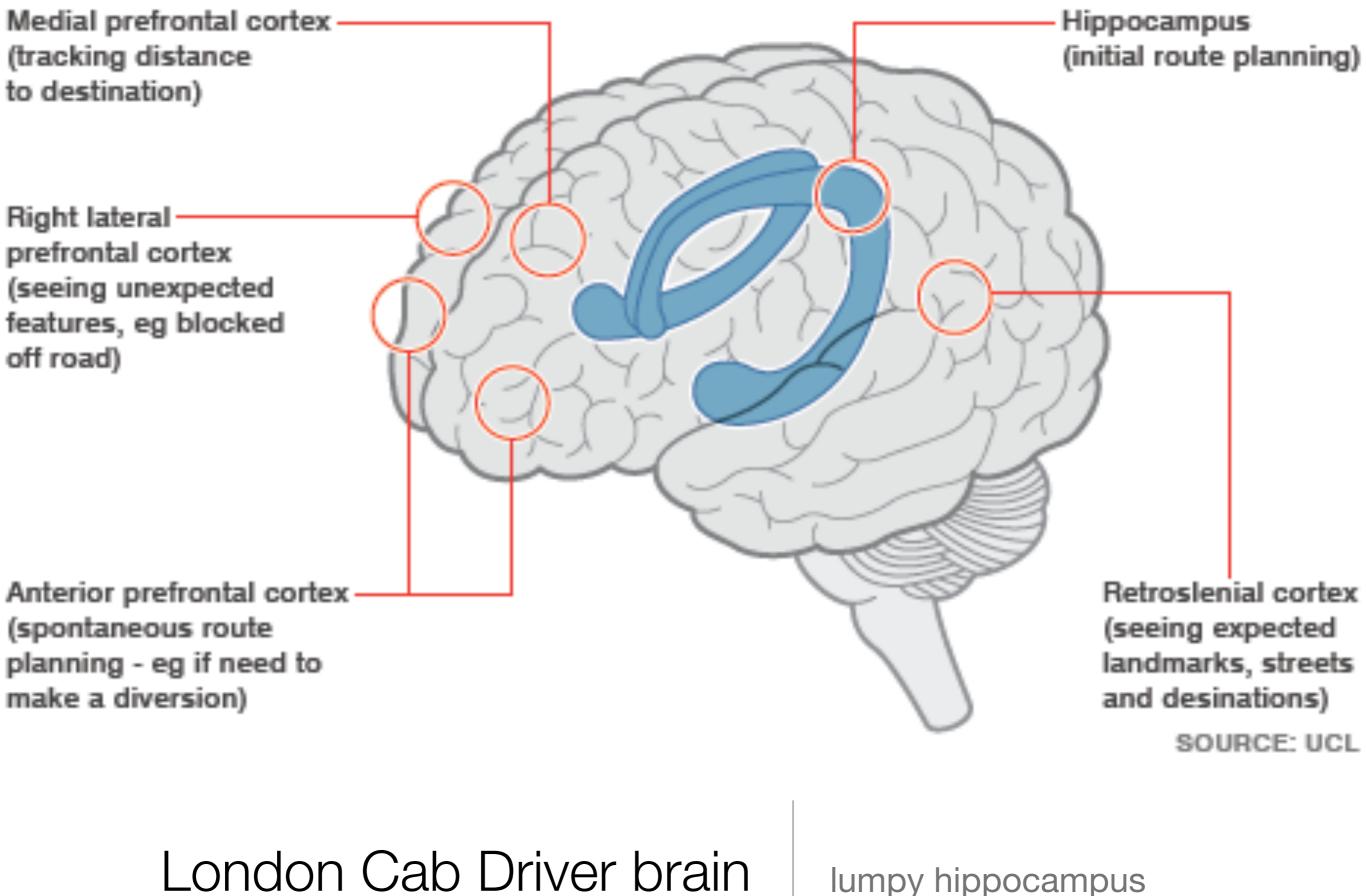
iRead

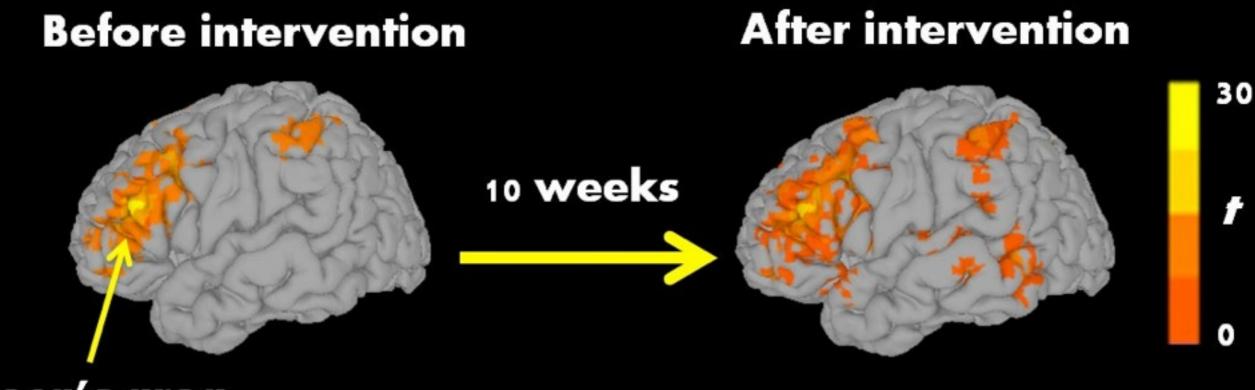
# "The brain is like a muscle. Giving it a hard workout makes it stronger."

- Carol Dweck, Ph. D. Author of *MindSet* 



#### TAXI DRIVER'S BRAIN





### Broca's area

## Autistic brain change

10 week reading intervention

Dockterman 2015



BIG DAY	Progress Report			
Teacher: Mr. Martinez Class: Morning Class Student: Rodriguez, Cris				
	Beginning of Year	Middle of Year		
Oral Language Development				
Vocabulary	Р	E		
Sentence Structure	Р	в		
Phonological Awareness				
Rhyme Identification	Р	D		
Sound Matching	в	E		

P

P

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Use this report to share information about this child's growth.

P Pre-Emergent B Beginning E Emerging D Developed

Segmentation

Alphabet Knowledge

Letter Naming Fluency

Social-Emotional Development

Letter Recognition

Letter Sounds

Mathematics Number Sense

Geometry

Sorting

Patterns

Self-Awareness

Self-Regulation

Social-Competence

Social-Awareness

Using This Report

Legend

Blending



End of Year

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Date: 05/21/10

rture All ound Us	8 Moving On
uriosity	Persistence
en learn about invironment estigating cteristics of itural world.	Children reflect on all the ways they have grown and changed during the year.
v Do Plants Grow?	Going New Places
olant a and how vs.	I am ready to go to new places.
Vhat's in the Sky?	Trying New Things
now the sky arent ind it.	feel comfortable trying new things.
r Weather	I Con Do It!
eather affects wear and do fay.	I always try my best.
e Seasons	We're Big Now!
e how the ns change.	Look at what
**	now.
,	

Teach Social and Learning Skills

"Noncognitive" stuff matters

#### Focusing on Concentration

> Describe a situation when you were focused and concentrated while learning something new. How did your focus and concentration make you feel about yourself?

> Describe a situation when you were not focused or concentrated while learning something new. How did your lack of focus and concentration make you feel about yourself?

#### **Focus & Concentration Strategies**

> Focus and concentration will help you be successful. Use these strategies to plan how to improve your focus and concentration in *MATH 180*.

CONCENTRATION STRATEGIES	EXPLAIN HOW YOU WILL USE THESE STRATEGIES
Calm Your Mind	My mind feels a little stressed in MATH 180 during One way I will calm my mind is to
Acknowledge and Release Random Thoughts	I sometimes have random thoughts when working on One way to release these thoughts and concentrate is to
Focus on One Thing Only	The most difficult thing to focus on in MATH 180 is One way to direct my focus and attention during class is to
Identify and Eliminate Distractions	I sometimes get distracted in MATH 180 while working on One way to eliminate distractions during class is to

# Teach Learning Behaviors

**Build Executive Function** 

# How do we get students to believe success is possible...even when it's hard?

- Foster an academic identity; monitor identities that undermine persistence.
- Help students see themselves gaining knowledge and skills.
- Teach students that brains change with effort.
- Develop learning behaviors.

3. How do we create a climate for productive struggle, where students (and workers) believe it's okay to stumble on the path to learning, creating, and producing?

## **Reference** Points

- List price
- hot or cold?
- am I "smart"?



[Most Powerful] iClever® 4.8A 24W Dual USB Travel Wall Charger with SmartID Technology, Foldable AC Plug for Apple iPhone iPad iPod, Samsung Galaxy, HTC LG Nexus Motorola Blackberry PSP, Bluetooth Speaker Headset, Power Bank and More - White

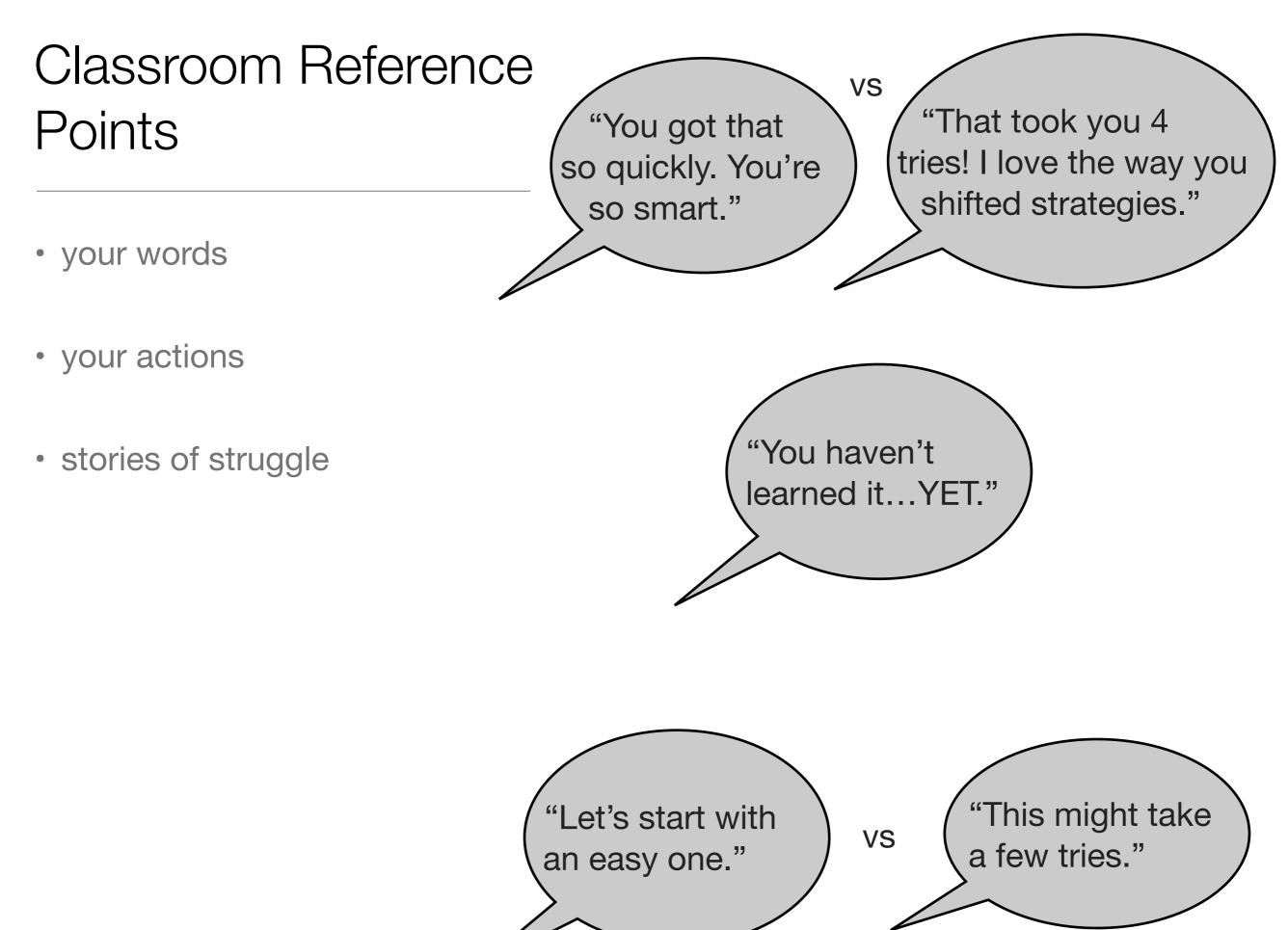
Top customer reviews | 49 answered questions
 Best Seler in MP3 Wall Chargers

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## What is the classroom "error climate"?

- How does the teacher respond to wrong answers?
- Are errors analyzed and strategically used for learning?
- Are students willing to take academic risks in front of their peers?
- How can you create a climate that gives status for learning?

## Learning Reference Points

Mastery

- Personal progress -- where am
  I vs where I was before
- all about getting better
- best for struggling students who have a history of failure
- choose when and with whom to share growth

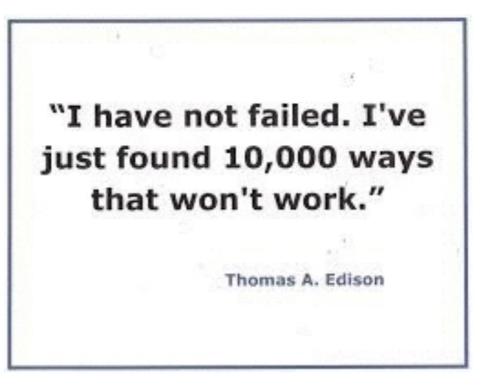
Performance

- Competitive -- where am I compared to others
- all about winning
- good for high performers who think they have a chance of winning
- performance always on display

## Make it Normal

- to make mistakes during learning.
- to be confused. It's is a sign you're ready to learn.
- to seek help.
- to get smart.



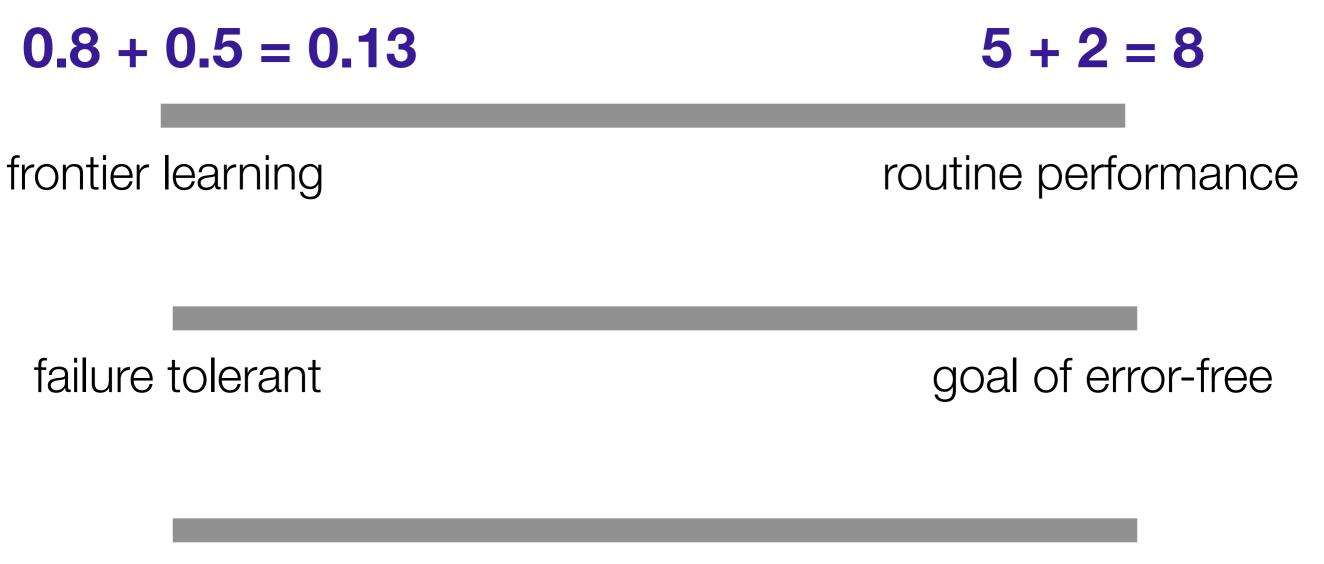


## "zone of optimal confusion"

Sydney D'Mello, Ph.D. Notre Dame

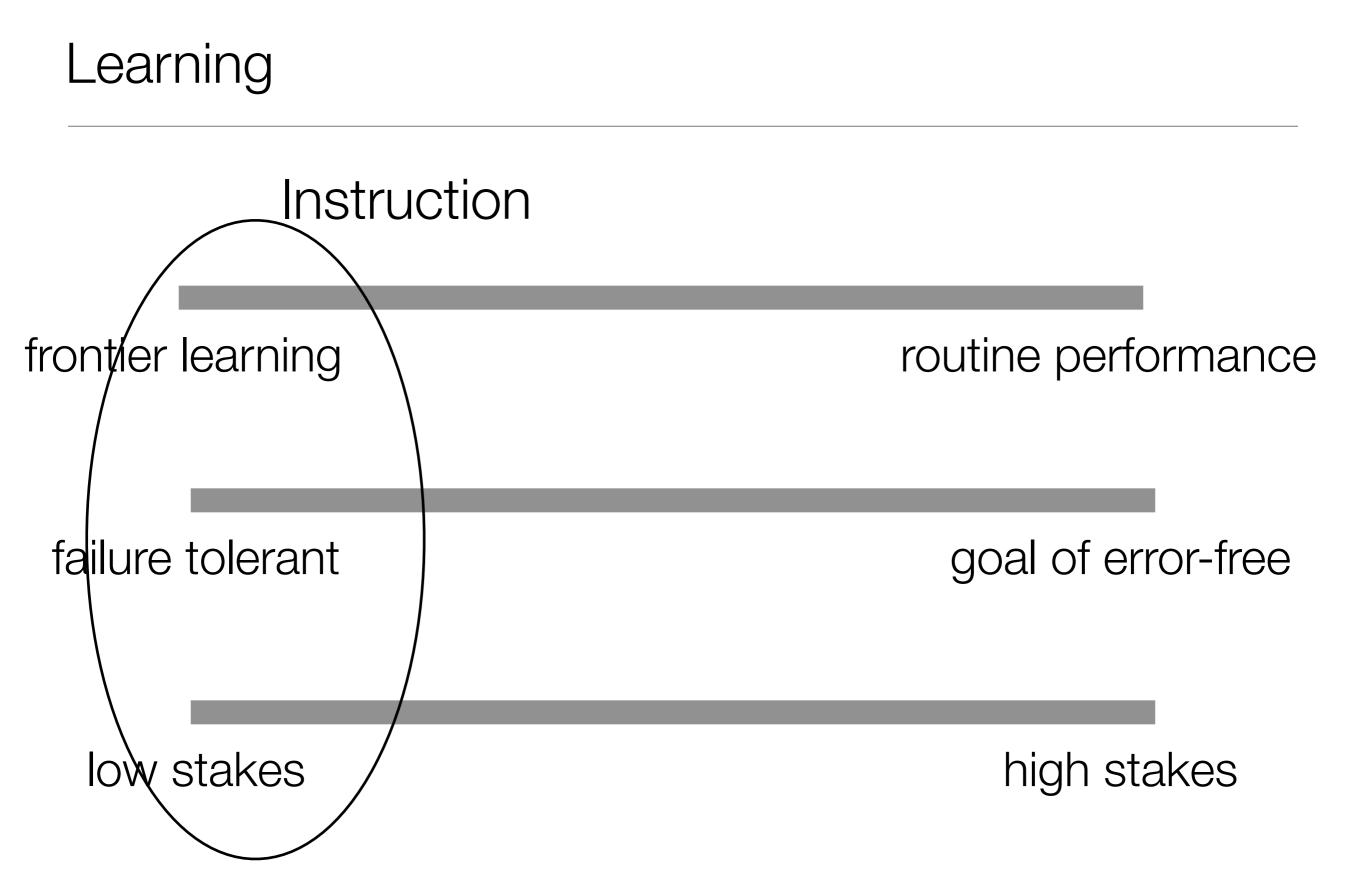


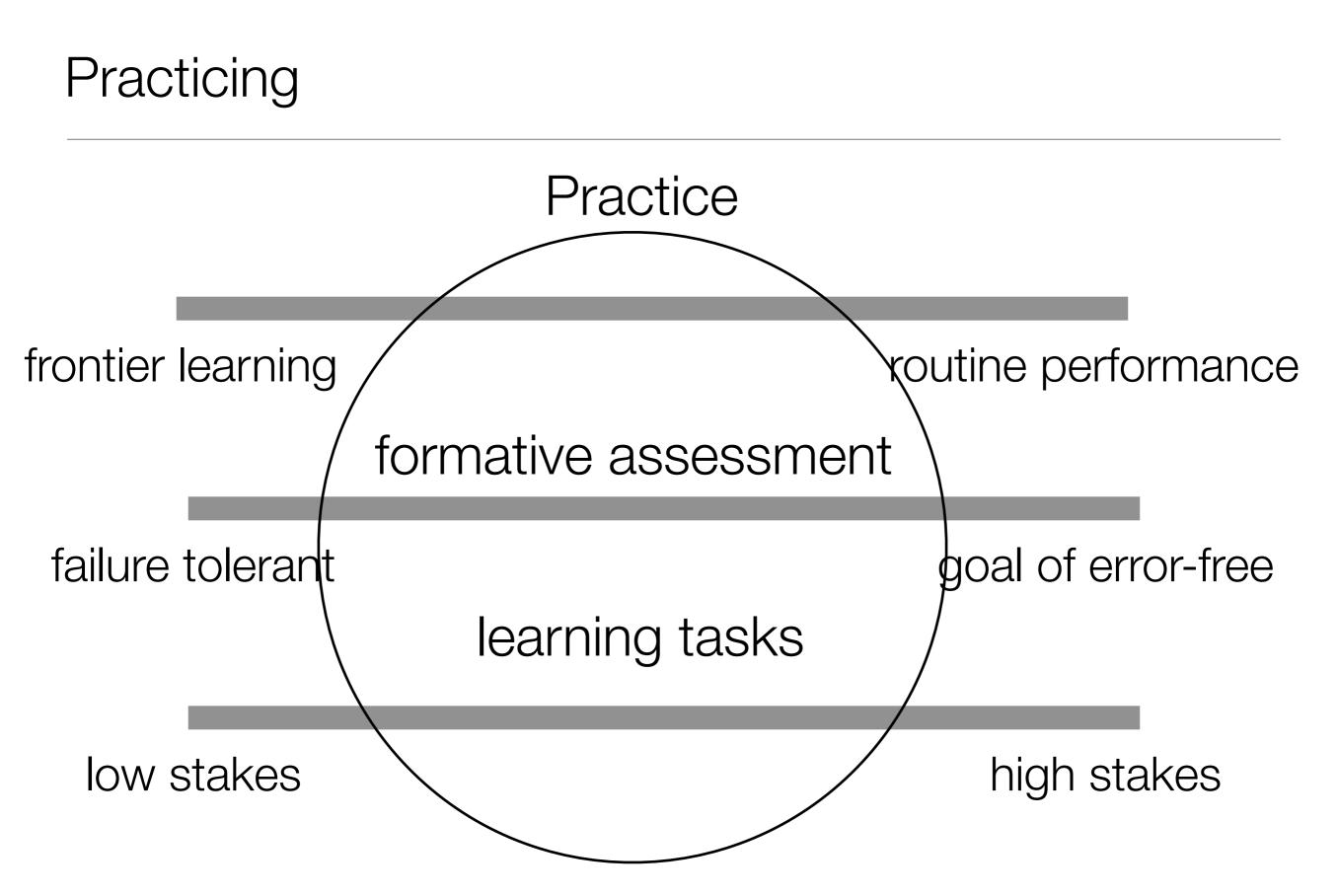
## Not all Mistakes are the Same



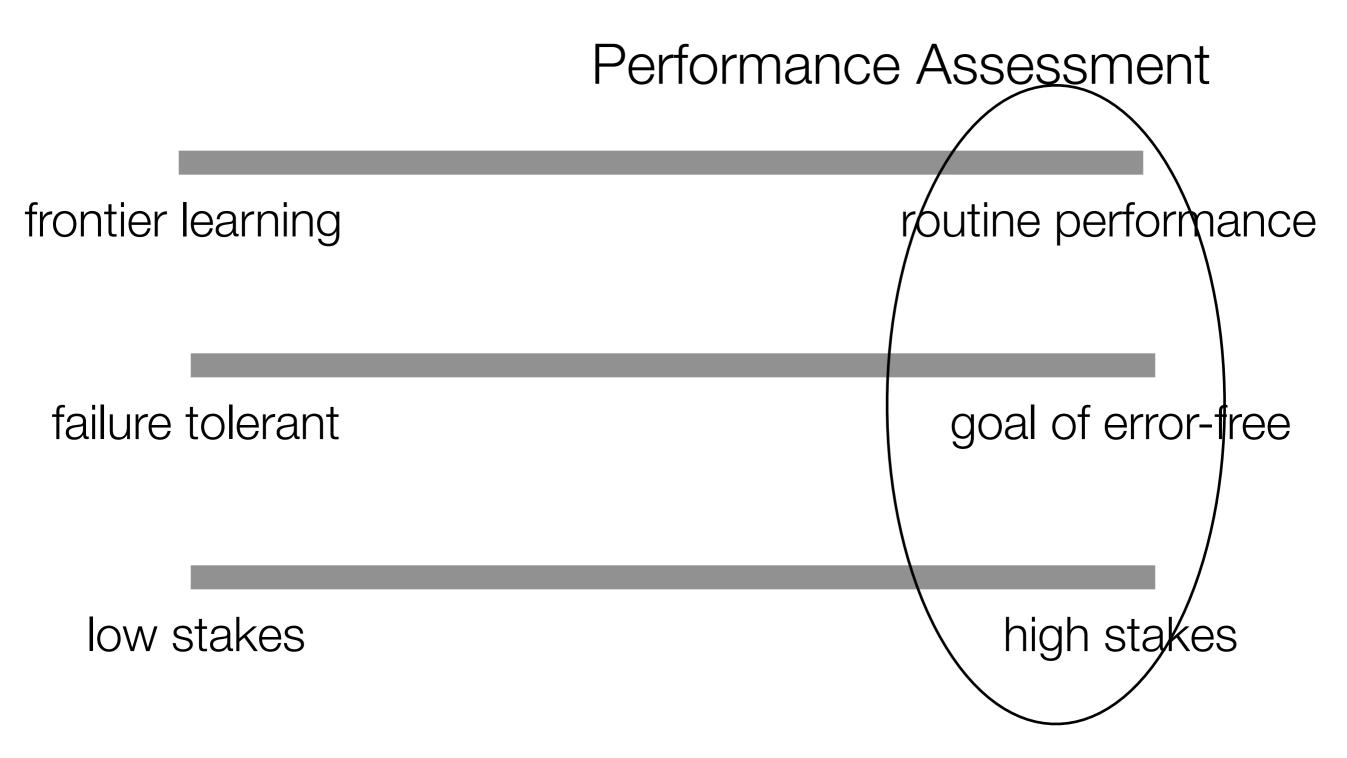
low stakes

high stakes





# Performing



# Tim Harford -3 Steps

"first, try lots of different things;

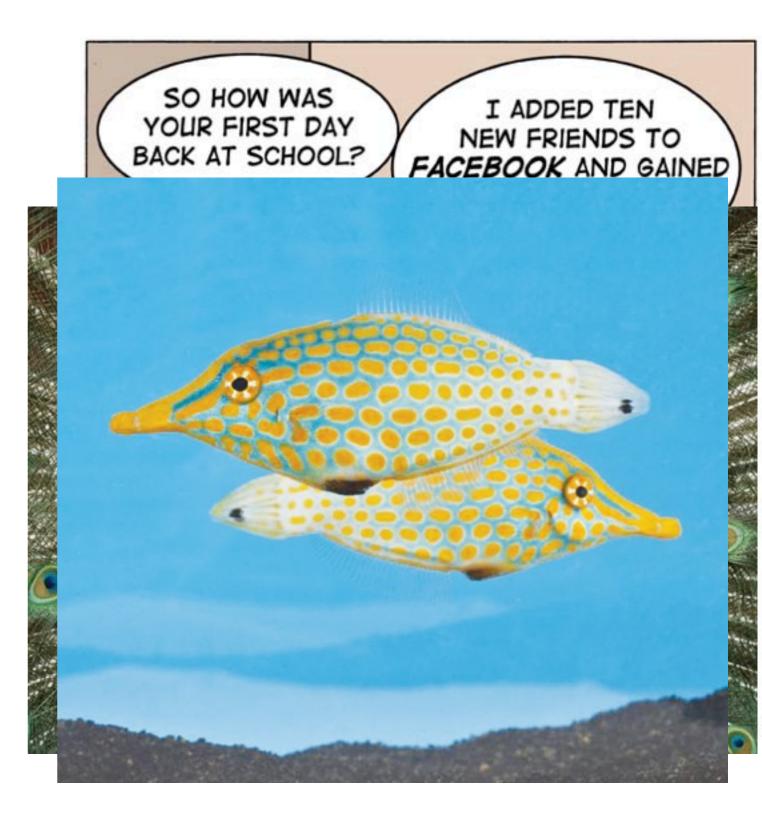
second, make sure the experiments are at a small scale so that when things go wrong, it's not a catastrophe;

and third, make sure there's a reliable way to tell the difference between success and failure."

Why	
Succe	SS
Alway	S
Starts	with
Failur	e
Author of The Undercover Economist	
	Adapt
Tim	
Harford	1

## A word about status

- The quest for status may be our most basic evolutionary drive.
- Risky fish get the girls.
- Humans crave social acceptance, and self-efficacy (and grades) are related to peer group support.



# How can we create a climate for productive struggle?

- Use words and actions to set reference points/norms for learning (vs performance).
- Establish a mastery- and growth-based classroom.
- Foster a constructive error climate and teach students how to respond to others' mistakes constructively.
- Give status (fish research) for meeting the learning norms.

## Potential vs Realized Intelligence

at the intersection of the individual and the environment

## Questions? Comments?

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