

Emerging Trends in Global Educational Change

Global Deep Learning Lab, Vancouver, CANADA

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2000

PISA

Programme for International Student Assessment

2000		2003		2006	
Reading literacy		Mathematics		Science	
1. Finland	546	1. Finland	544	1. Finland	563
2. Canada	534	2. South Korea	542	2. Canada	534
3. New Zealand	528	3. Netherlands	528	3. Japan	531
4. Austria	527	4. Czech Republic	527	4. New Zealand	530
5. Ireland	527	5. Canada	532	5. Australia	527
6. South Korea	525	6. Belgium	529	6. Netherlands	525
7. United Kingdom	523	7. Switzerland	527	7. South Korea	522
8. Japan	522	8. Australia	524	8. Germany	516
9. Sweden	516	9. New Zealand	523	9. United Kingdom	515
10. Austria	507	10. Czech Republic	516	10. Czech Republic	513
11. Belgium	507	11. Iceland	515	11. Switzerland	512
12. Iceland	507	12. Denmark	514	12. Austria	511
13. Norway	505	13. France	511	13. Belgium	510
14. France	505	14. Sweden	503	14. Ireland	508
15. United States	504	15. Austria	506	15. Hungary	504
16. Denmark	497	16. Germany	503	16. Sweden	503
17. Switzerland	494	17. Ireland	503	17. Poland	498
18. Spain	493	18. Slovakia	498	18. Denmark	496
19. Czech Republic	492	19. Norway	495	19. France	495
20. Italy	487	20. Luxembourg	493	20. Iceland	491
21. Germany	484	21. Poland	490	21. United States	489
22. Hungary	480	22. Hungary	490	22. Slovakia	488
23. Poland	479	23. Spain	485	23. Spain	488
24. Greece	474	24. United States	483	24. Norway	487
25. Portugal	470	25. Italy	466	25. Luxembourg	486

What did we learn?

Some features of high-performing systems

TEAMWORK

CREATIVITY

PROFESSIONALISM

TRUST & RESPONSIBILITY

FAIR PLAY (=EQUITY)

Harmful Myths about Finland

1

Sections 

Answer Sheet

No, Finland isn't ditching traditional school subjects. Here's what's really happening.

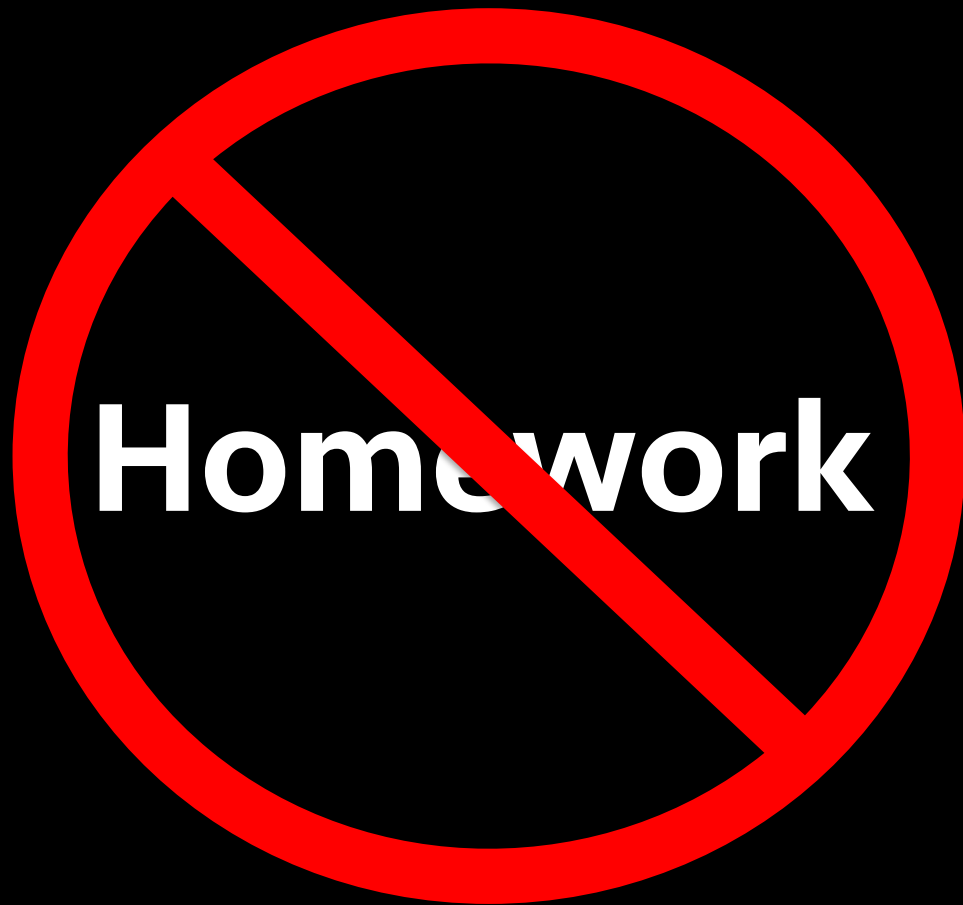
By Pasi Sahlberg, March 26, 2015 



Most Read

- 1 'It is my intent that you never see the sun rise': A judge's harsh words for convicted killer
- 2 Trump picks billionaire Betsy DeVos, as school voucher advocate, as education secretary
- 3 'I'm very proud of you': Obama meets 6-year-old who wrote to him about adopting Syrian boy
- 4 'Let's party like it's 1933': Inside the alt-right world of Richard Spencer

2



3 The best and the brightest

“We need to attract the best and brightest to join the profession. Teachers are the key in today’s knowledge economy, where a good education is an essential foundation for every child’s future success.”

- Andreas Schleicher, the OECD Director of Education and Skills

Four Emerging Trends

STAND UP IF YOU AGREE THAT
COMPARED TO 5 YEARS AGO...



*“There are more students with
emotional challenges in school.”*



Wellbeing and Deep Learning.

Growing Up Digital

(Alberta Teachers Association &

Harvard Medical School)

DISCONNECTING

Alberta teachers have observed dramatic changes in their student populations over the past three to five years.

EMOTIONAL AND SOCIAL CHALLENGES



of teachers say that the number of students with emotional challenges has increased.



of teachers say that the number of students with social challenges has increased.

85%

of teachers say that the number of students who need behaviour support has increased.



“ Is a student’s increasing online presence decreasing real-world satisfaction and positive peer-to-peer interaction? ”

— Elementary school teacher

MOOD DISORDERS

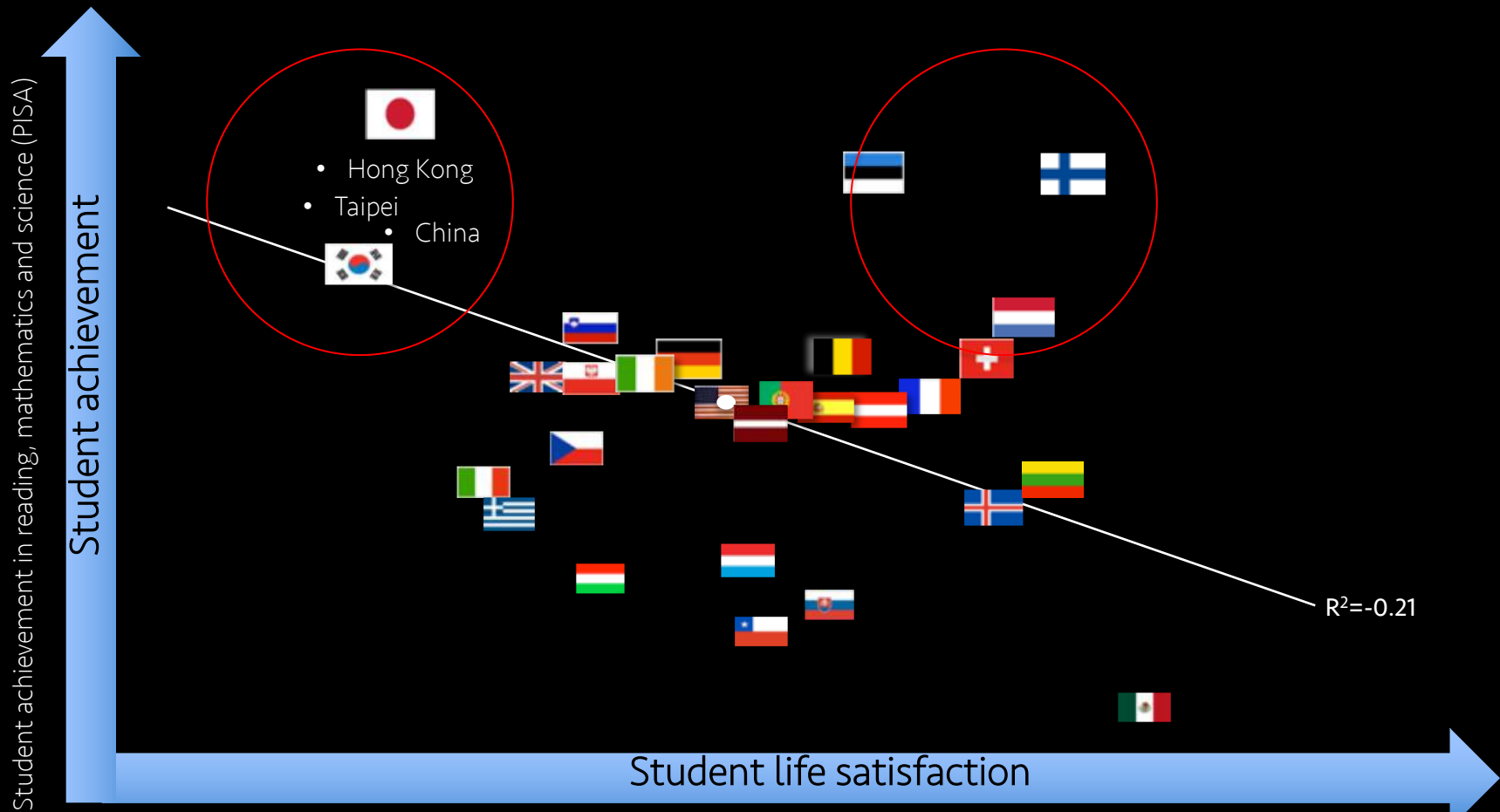
3 out of 4 teachers say that the number of students with cognitive challenges has increased.



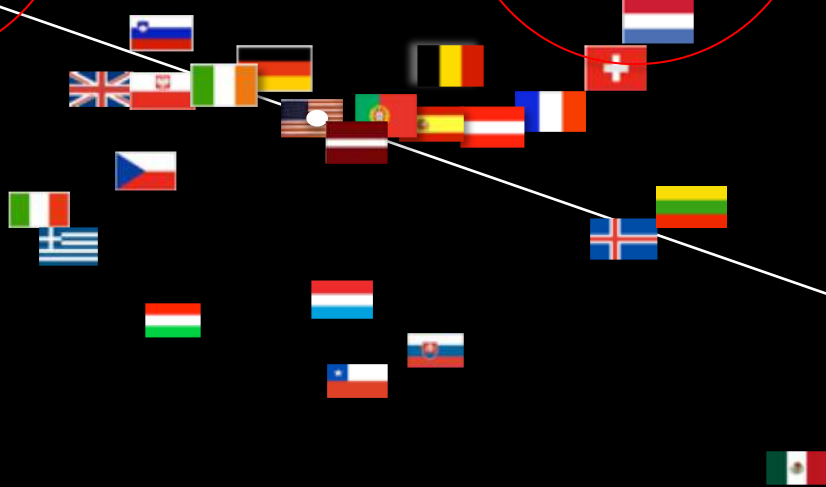
STUDENT CHALLENGES

ANXIETY DISORDER **85%**

DEPRESSION **73%**



- Hong Kong
- Taipei
- China



National averages based on students' reporting in PISA 2015 survey

The new horizon of educational change

Renaissance of recess in schools.

Health as the 21st century skill.

Whole-child approach through curriculum.

STAND UP IF YOU AGREE THAT
COMPARED TO 5 YEARS AGO...



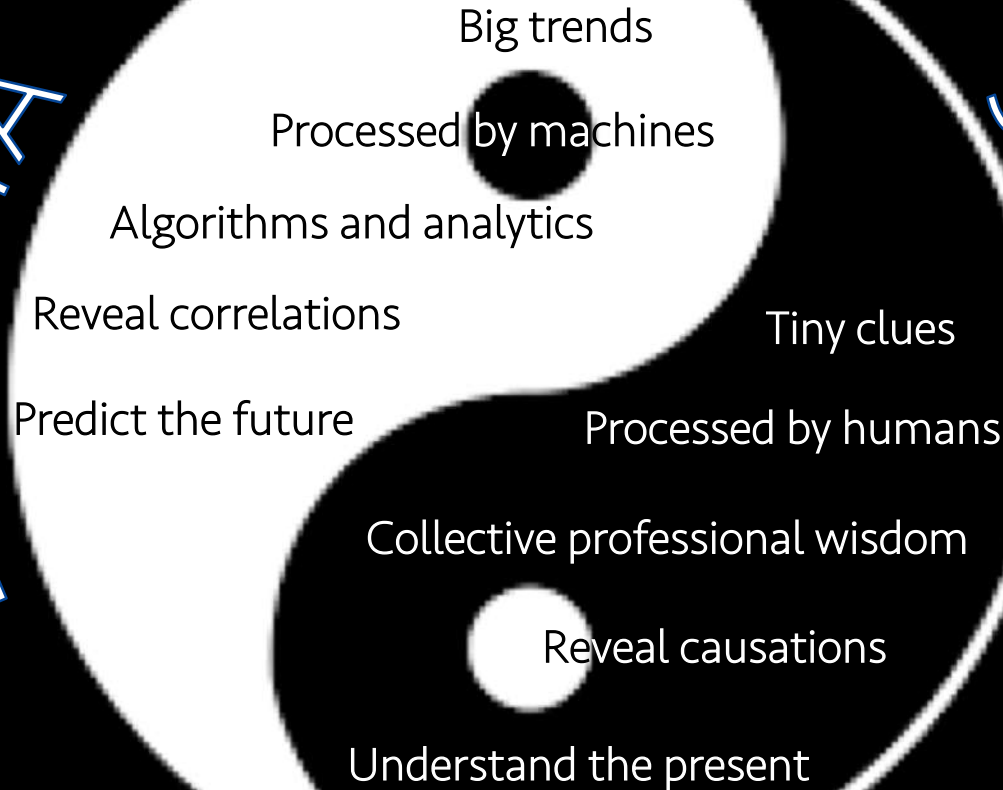
*"We spend more time to work on
data about our school."*



2

Leading and Teaching with Small Data.

BIG DATA



Small data

Example: “Why kids don’t like mathematics?”

“Imagine a mathematician at work”

Usually fat male

Unstylish

No friends - except other mathematicians

No romantic relationships or social life

Wrinkles in their forehead from thinking so hard

Very short tempers

Lead with Small Data,
or you'll be led by Big Data.

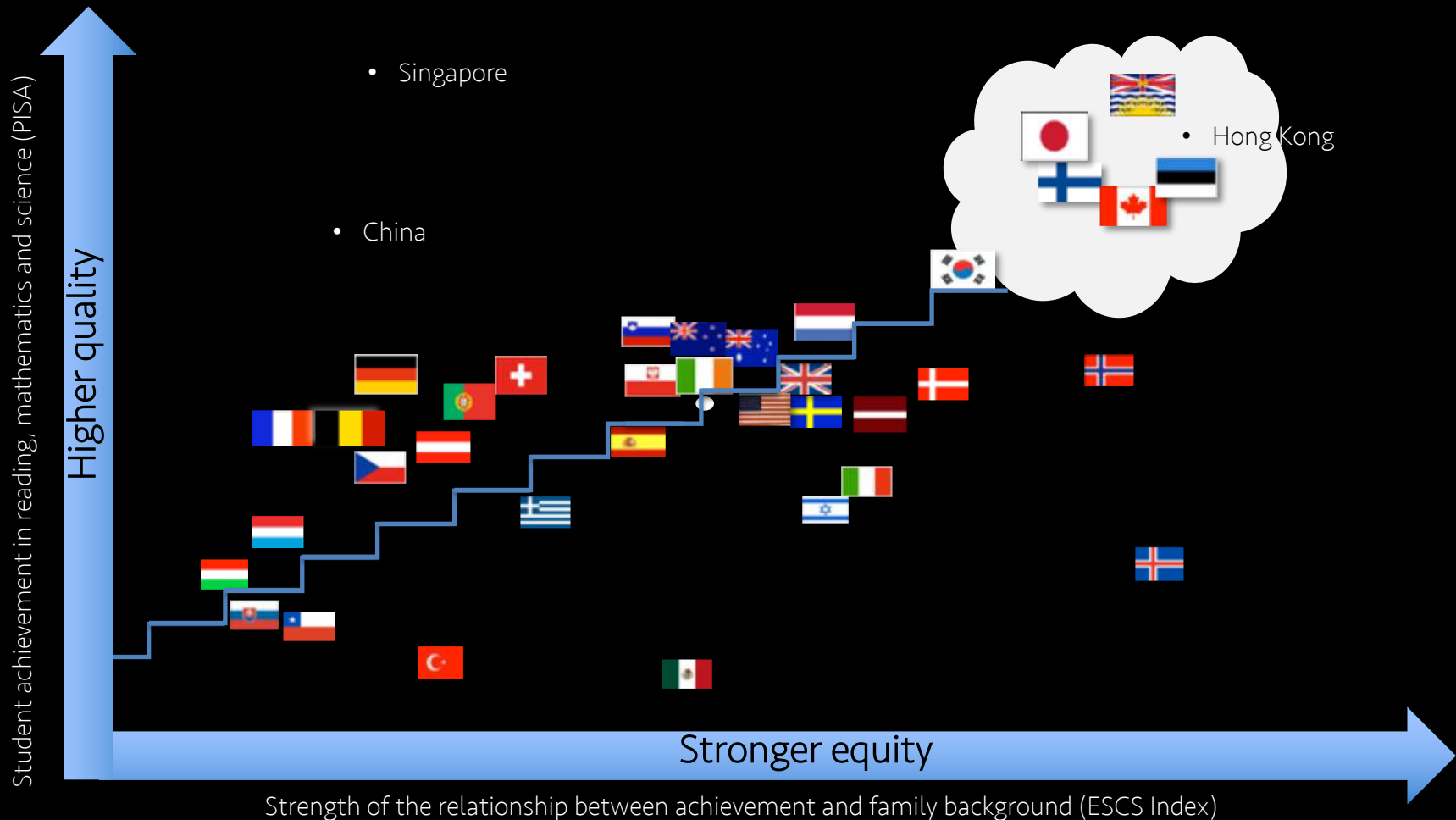
STAND UP IF YOU AGREE THAT
COMPARED TO 5 YEARS AGO...



*“The gap between those who can
and those who can’t is wider.”*

3

Deep Learning for All.



STAND UP IF YOU AGREE THAT
COMPARED TO 5 YEARS AGO...

*“Students spend more time
watching digital screens.”*

4

Let the Children Play.

The State of Play

A majority of parents (88%) believe that children are under pressure to grow up too quickly.

Fewer parents are playing outdoors with their children.

Parenting paradigms are shifting to overprotecting children from risk-taking.

Parents may believe that their children will benefit more from structured activities as opposed to unstructured free play and activities.

Center on Media and Child Health, 2015

The State of Play

United States: In 2016, only 13 states had laws that mandate recess time during the school day, and 8 had recommendations for physical activity in schools.

England: *“Nurseries not preparing children for school”, says Ofsted.*

Australia: *“The word 'play' has become problematic in Australian schools.”*

Mexico: Many parents don't want to pay for the time their children play or sleep in Early Childhood Centers.

Deep Play

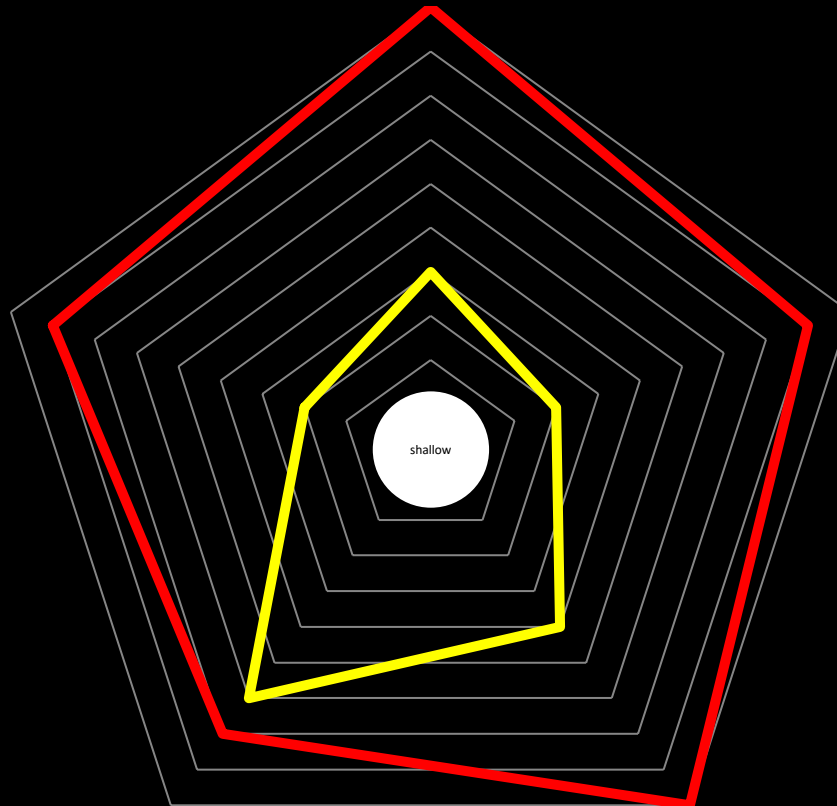
Self-directedness

Use of imagination

Intrinsic motivation

Process orientation

Positive emotions



- Deeper play
- Lower level play

THANK YOU!



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