How effective teachers use learning data!

Jake Whiddon

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What are we doing today?

Defining Data & Insights

Student Insights

Class Insights

Language Learning Insights

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Where do you see data in your daily life?
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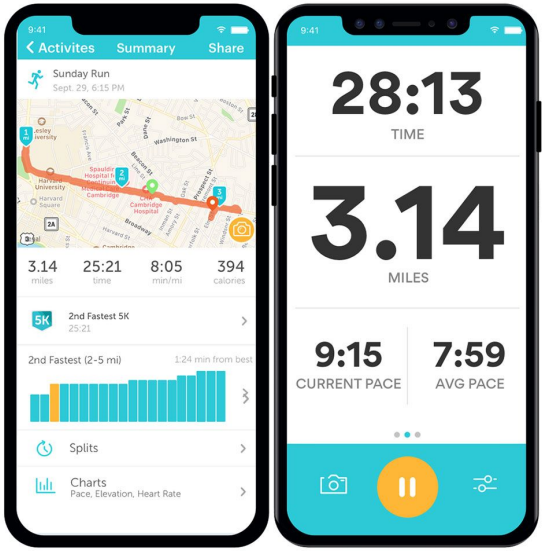

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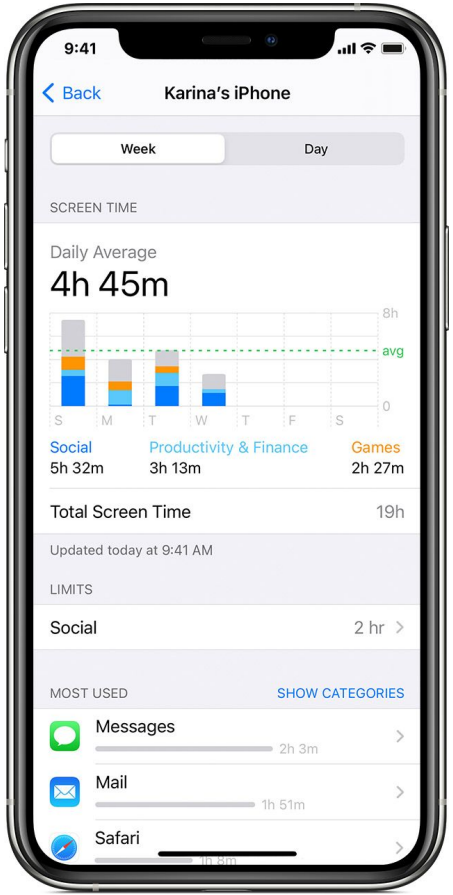

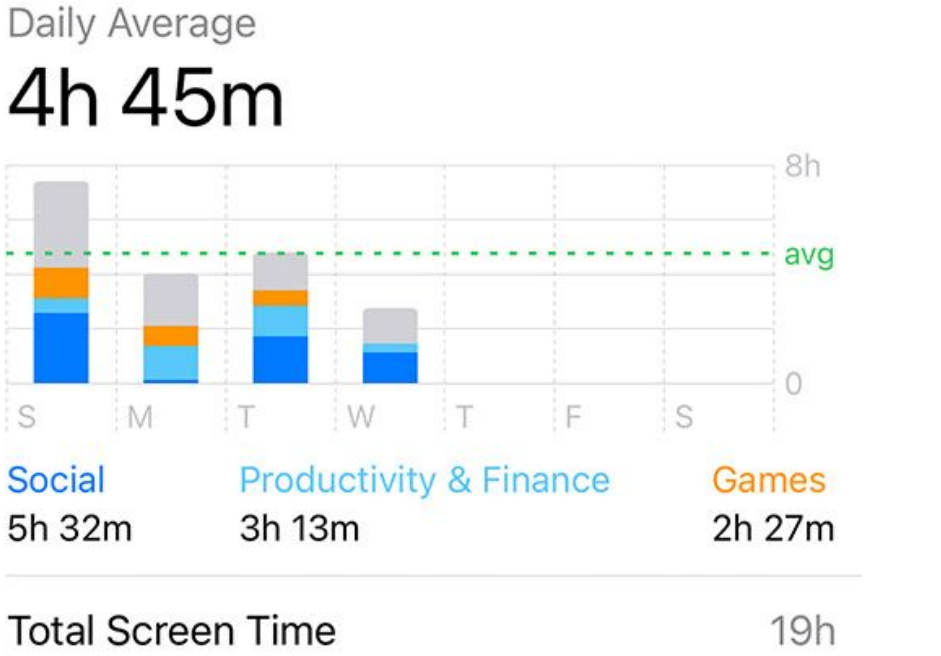

Downtime

App Limits

Always Allowed

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https://support.apple.com/en-sg/HT208982

9:41
Back
Jesse Cavanna
JESSE'S IPAD
Daily Average
2h 10m
31% from last week
4h
avg
0
S M T W T F S
See All Activity
Updated today at 9:41 AM
Downtime
9:00 PM–8:00 AM
App Limits
Set time limits for apps.
Communication Limits
Managing Contacts
Always Allowed
Choose apps you want at all times.
Content & Privacy Restrictions
Block inappropriate content.

SCREEN TIME
now
Time Check
5 minutes remaining for Games today.
1st
2nd
3rd
4th
5th
6th
13
1/3
01 : 05 : 366
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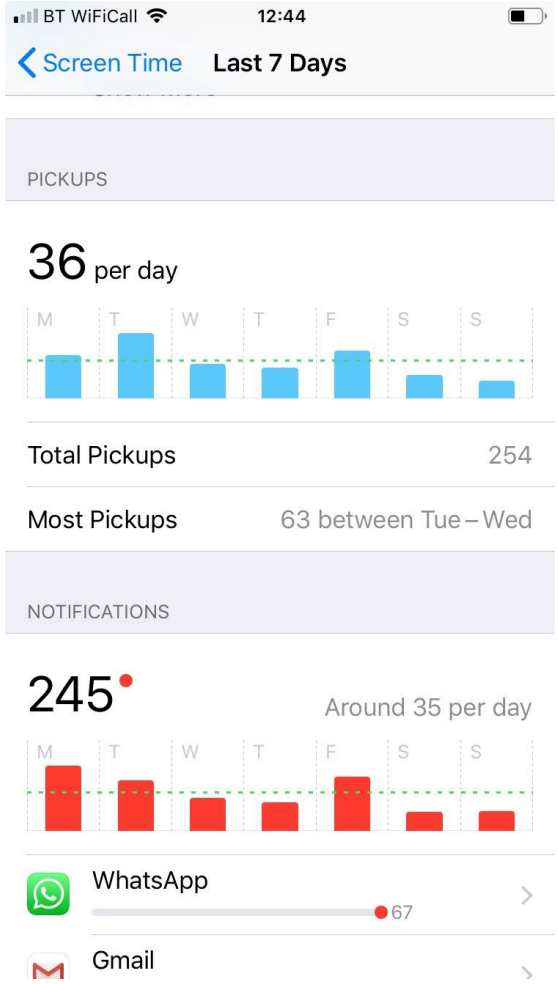
What is the **data** showing?

What **insights** can you see?

What **actions** could you take?



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Exercise Apps

What does this data tell you?

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What is the **data** showing?

What **insights** can you see?

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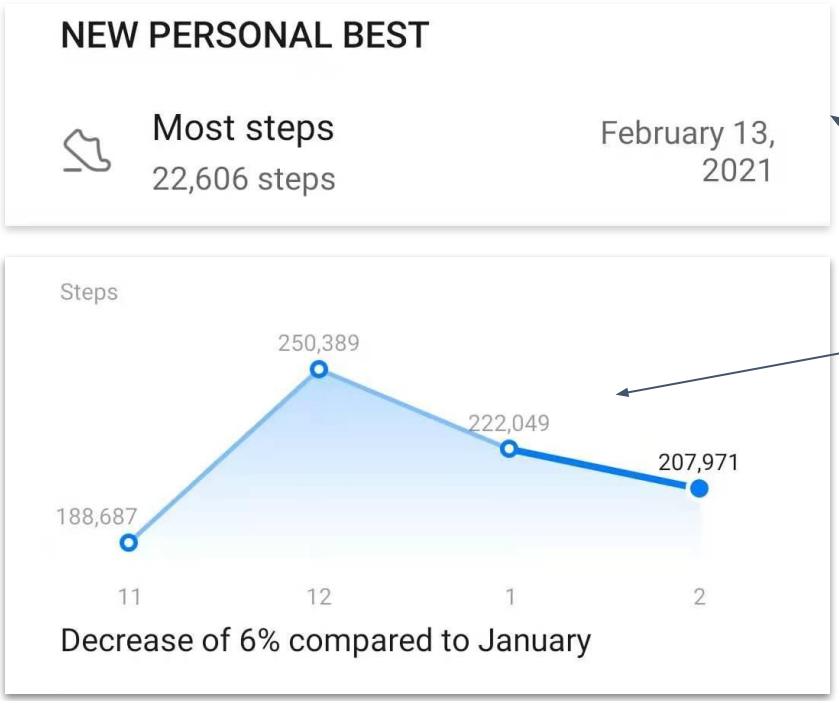

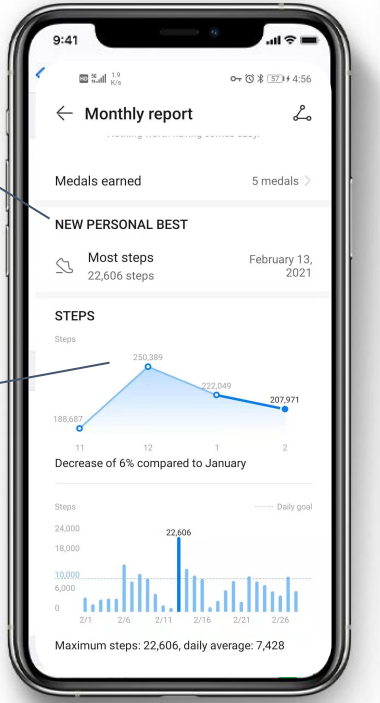

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What do these all have in common?

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They are all apps

We have integrated apps into all aspects of our lives because they give us information and insights to encourage positive actions to be taken.

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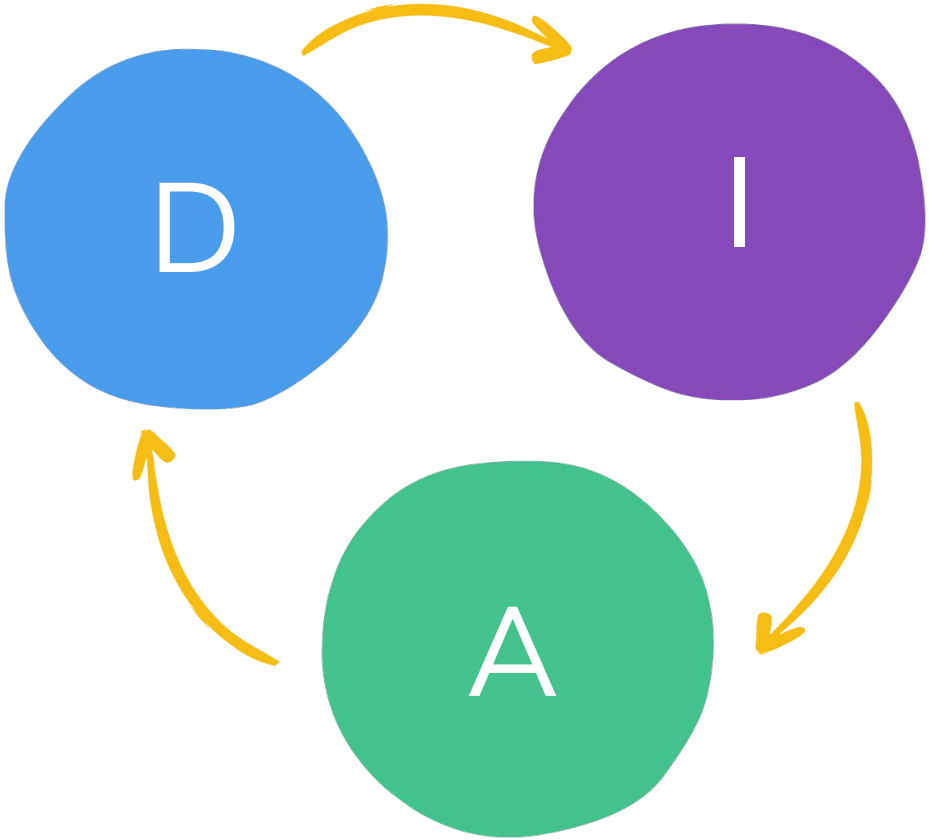

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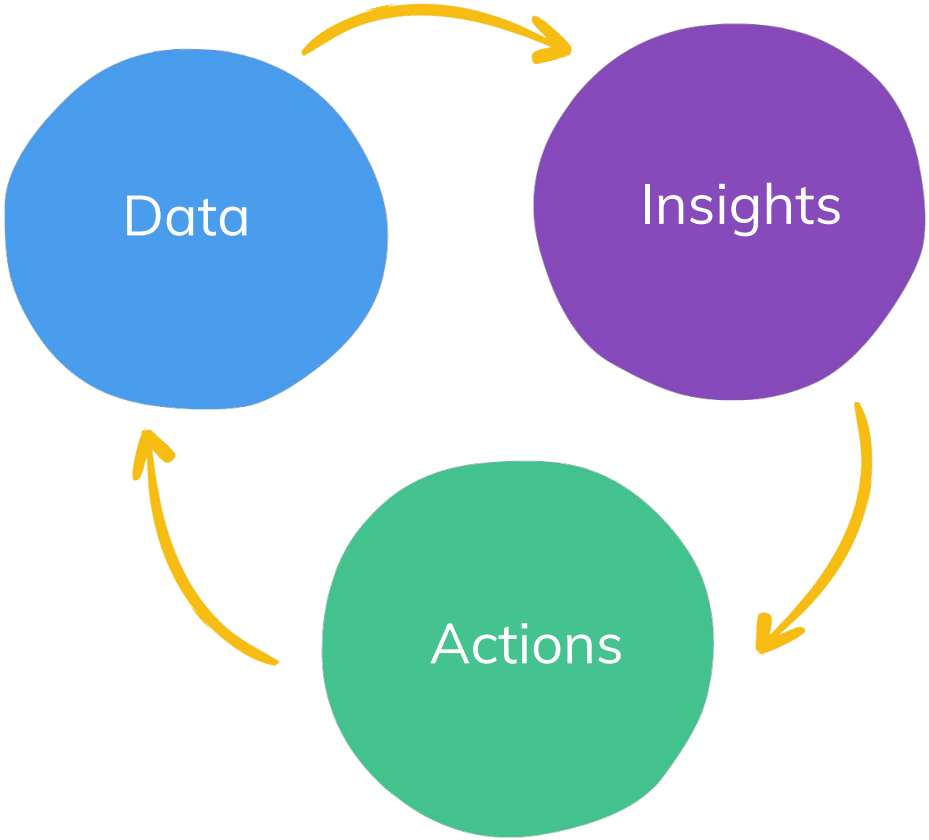

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Data: the raw numbers
Information: a collection of data points

Insights: “*gained by analyzing data and information to understand what is going on with the particular situation or phenomena.*”

Action: what you do with that insight

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https://online.ben.edu/programs/mba/resources/data-vs-information-vs-insight

https://medium.com/riskified-technology/data-vs-insight-the-thin-line-between-good-and-bad-reports-91997d5e9cd

How do you know your students are learning?

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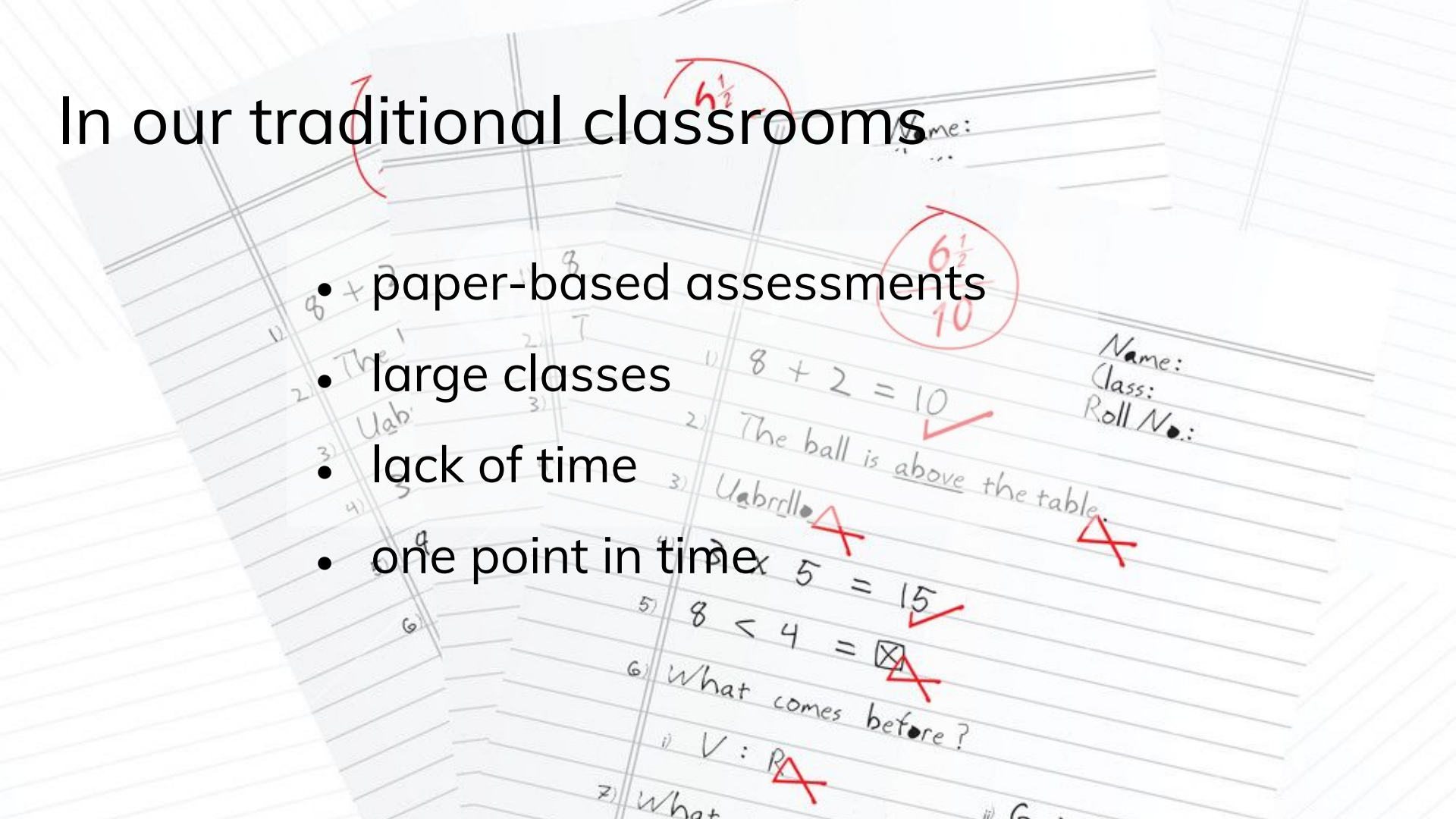
We already get data,
try to make insights,
and take action.

In our traditional classrooms

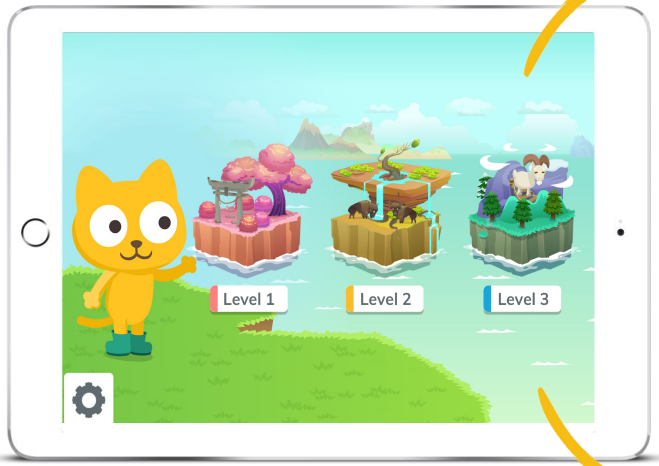


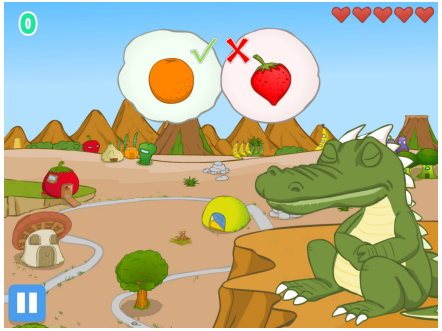
- paper-based assessments
- large classes
- lack of time
- one point in time

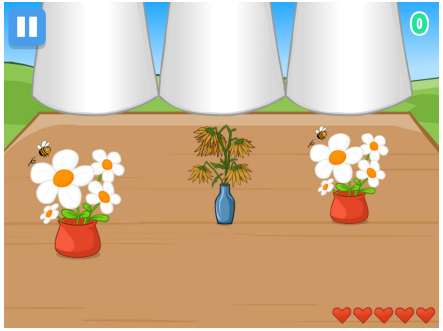
just like a running app gives information on **every step you take**

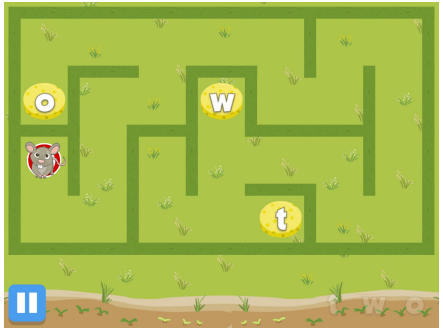
educational apps can you give information on **every interaction in the app**

Insights from active language learning









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What are we doing today?

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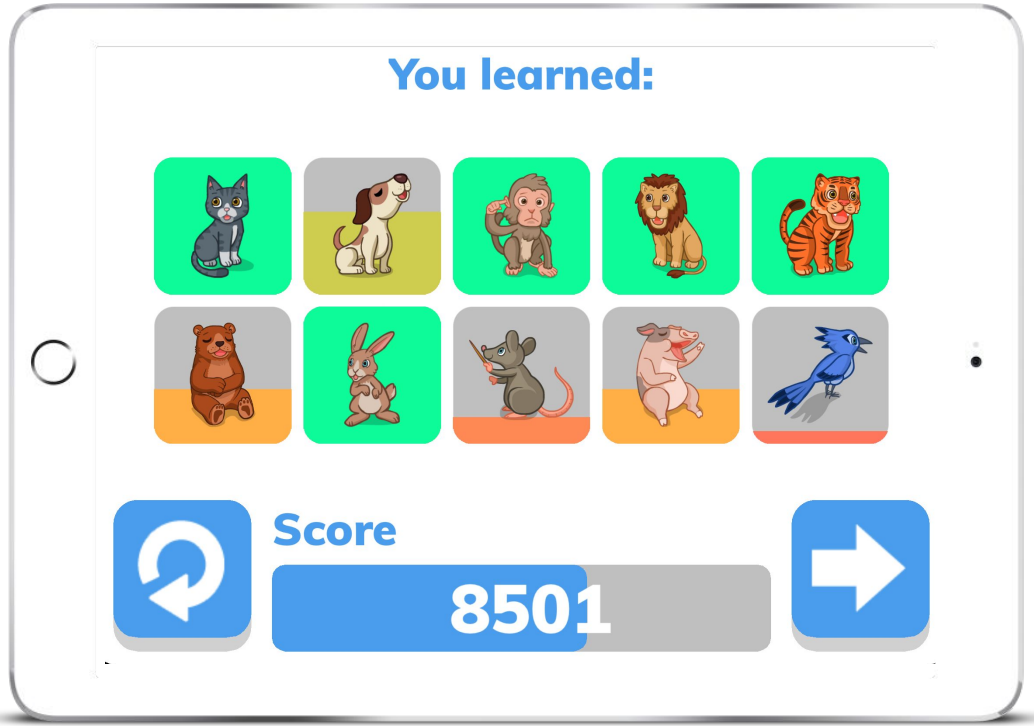

What is the **data** showing?

What **insights** can you see?

What **actions** could you take?

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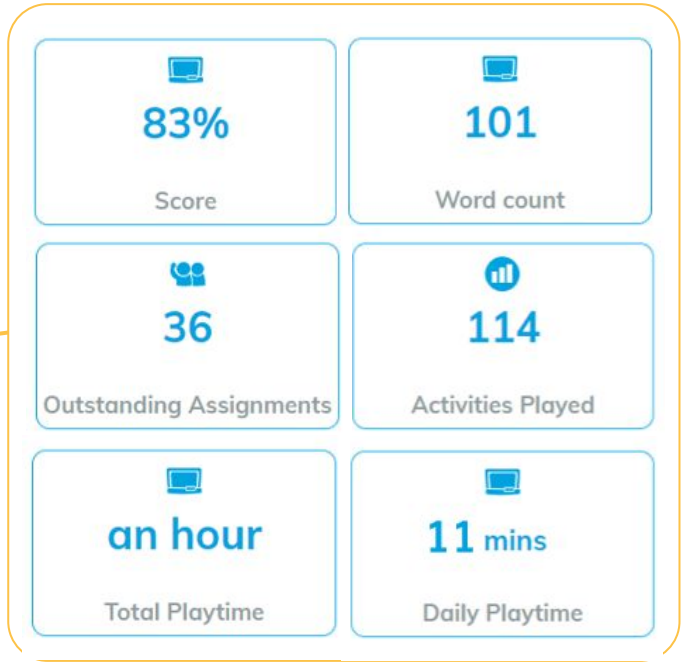
For parents & teachers



How can this help teachers?

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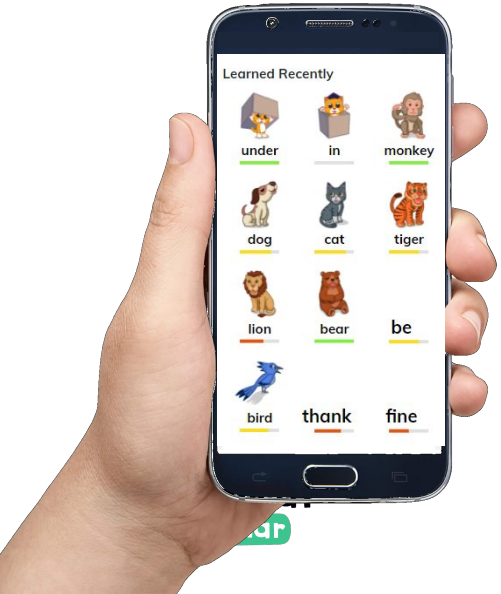
taken from many interactions with the target language



What is the **data** showing?

What **insights** can you see?

What **actions** could you take?

Learned Recently

under

in

monkey

dog

cat

tiger

lion

bear

be

bird

thank

o

i

u

long

fine

how

yes

it

no

is

hi

slow

fast

small

short

big

stand up

Miss

May

Mr.

shoes

dress

jacket

rabbit

mouse

year

old

today

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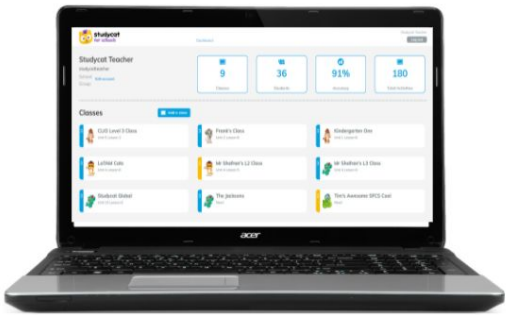

All Students

81% Score	48 Outstanding Assignments	767 Activities Played
12hrs Total Playtime	11mins Daily Playtime	177 Word Count

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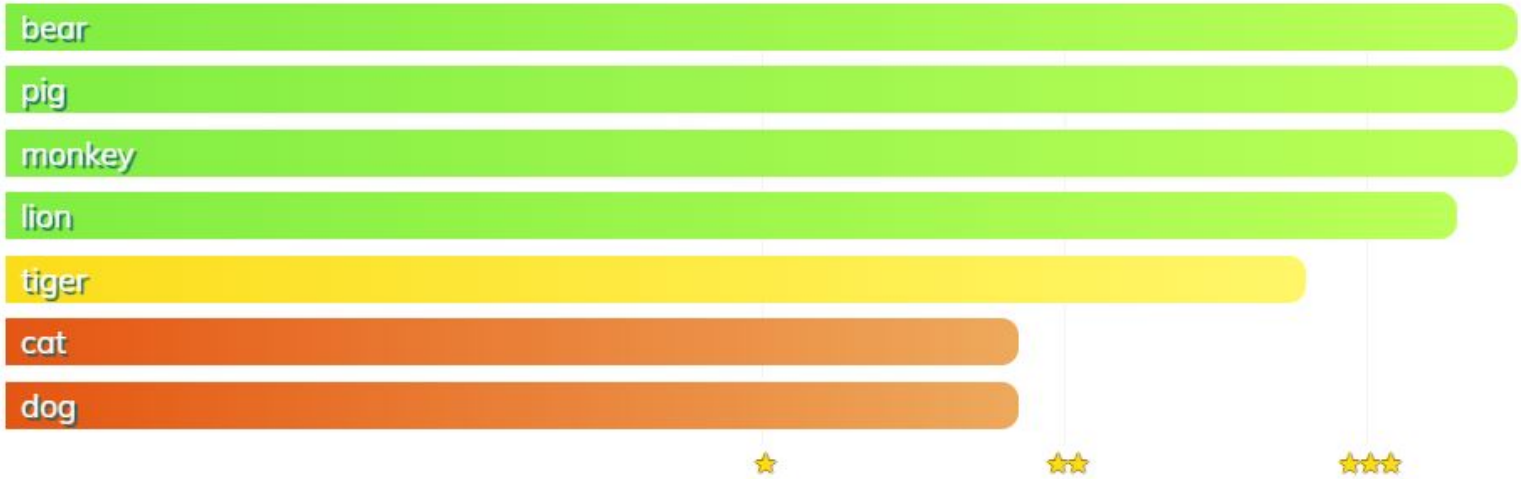
Whole class accuracy



What is the **data** showing?

What **insights** can you see?

What **actions** could you take?

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What **actions** could you take?

- Focus on cat, dog, and tiger in the next class
- Ask the students to go back play the specific activities again
- Share with the class!

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Adjectives

Adjectives

Adjectives

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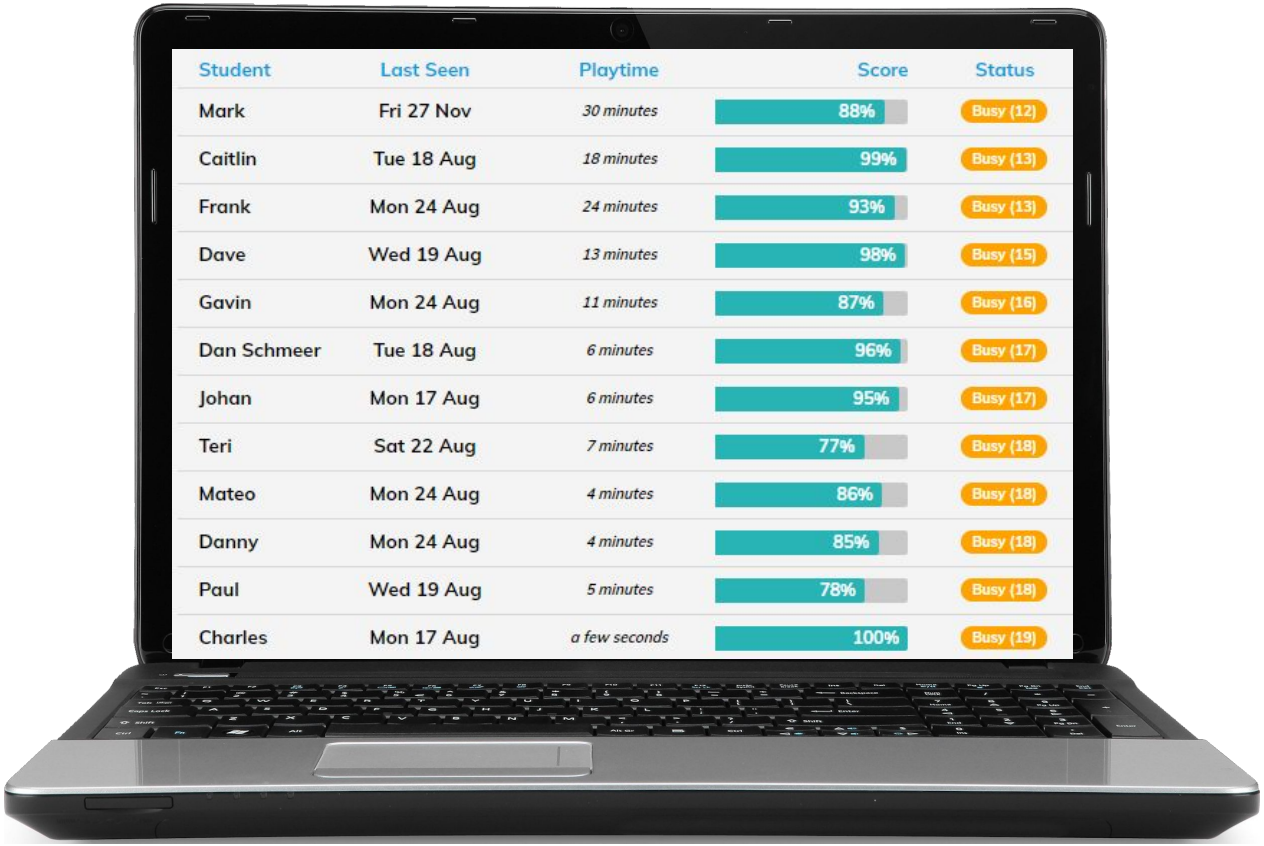

Student	Last Seen	Playtime	Score	Status
Mark	Fri 27 Nov	*30 minutes*	88%	Busy (12)
Caitlin	Tue 18 Aug	*18 minutes*	99%	Busy (13)
Frank	Mon 24 Aug	*24 minutes*	93%	Busy (13)
Dave	Wed 19 Aug	*13 minutes*	98%	Busy (15)
Gavin	Mon 24 Aug	*11 minutes*	87%	Busy (16)
Dan Schmeer	Tue 18 Aug	*6 minutes*	96%	Busy (17)
Johan	Mon 17 Aug	*6 minutes*	95%	Busy (17)
Teri	Sat 22 Aug	*7 minutes*	77%	Busy (18)
Mateo	Mon 24 Aug	*4 minutes*	86%	Busy (18)
Danny	Mon 24 Aug	*4 minutes*	85%	Busy (18)
Paul	Wed 19 Aug	*5 minutes*	78%	Busy (18)
Charles	Mon 17 Aug	*a few seconds*	100%	Busy (19)

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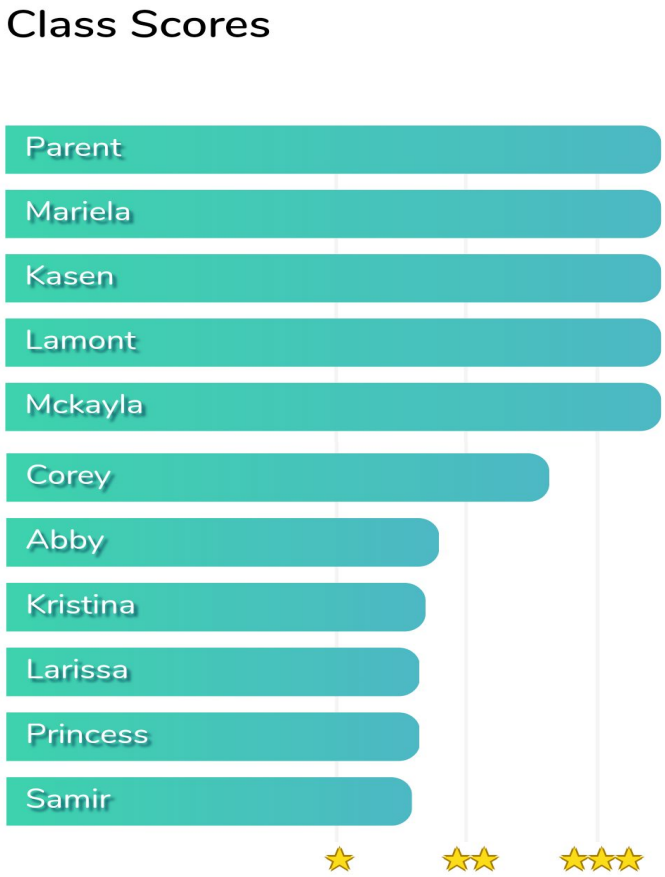
What **actions** could you take?



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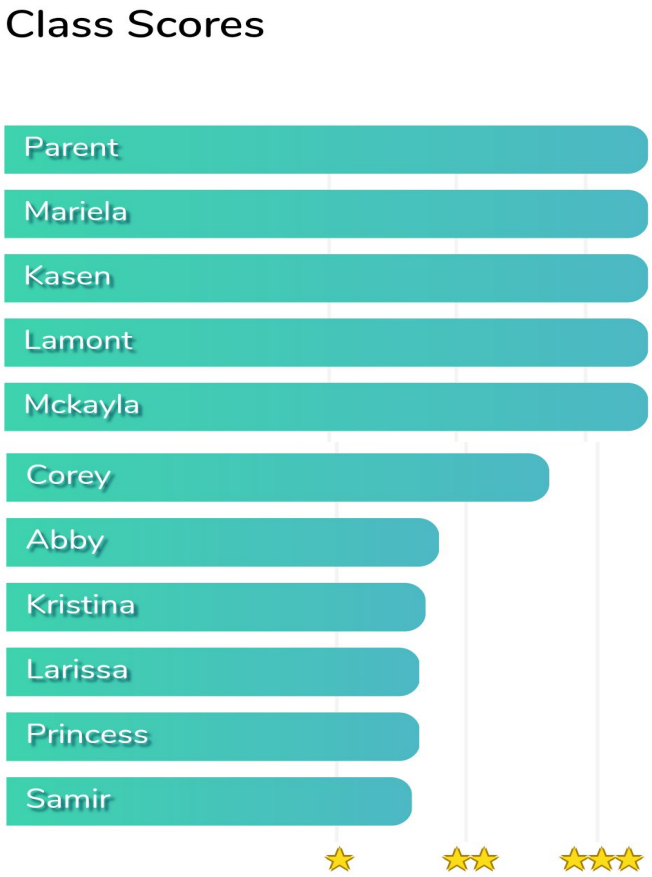
What **actions** could you take?

- group homogeneously
- group heterogeneously
- task-based group work
- differentiate task outcomes
- assign review activities



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this information is available before my next class

Not just what the students did

but **how** they did it

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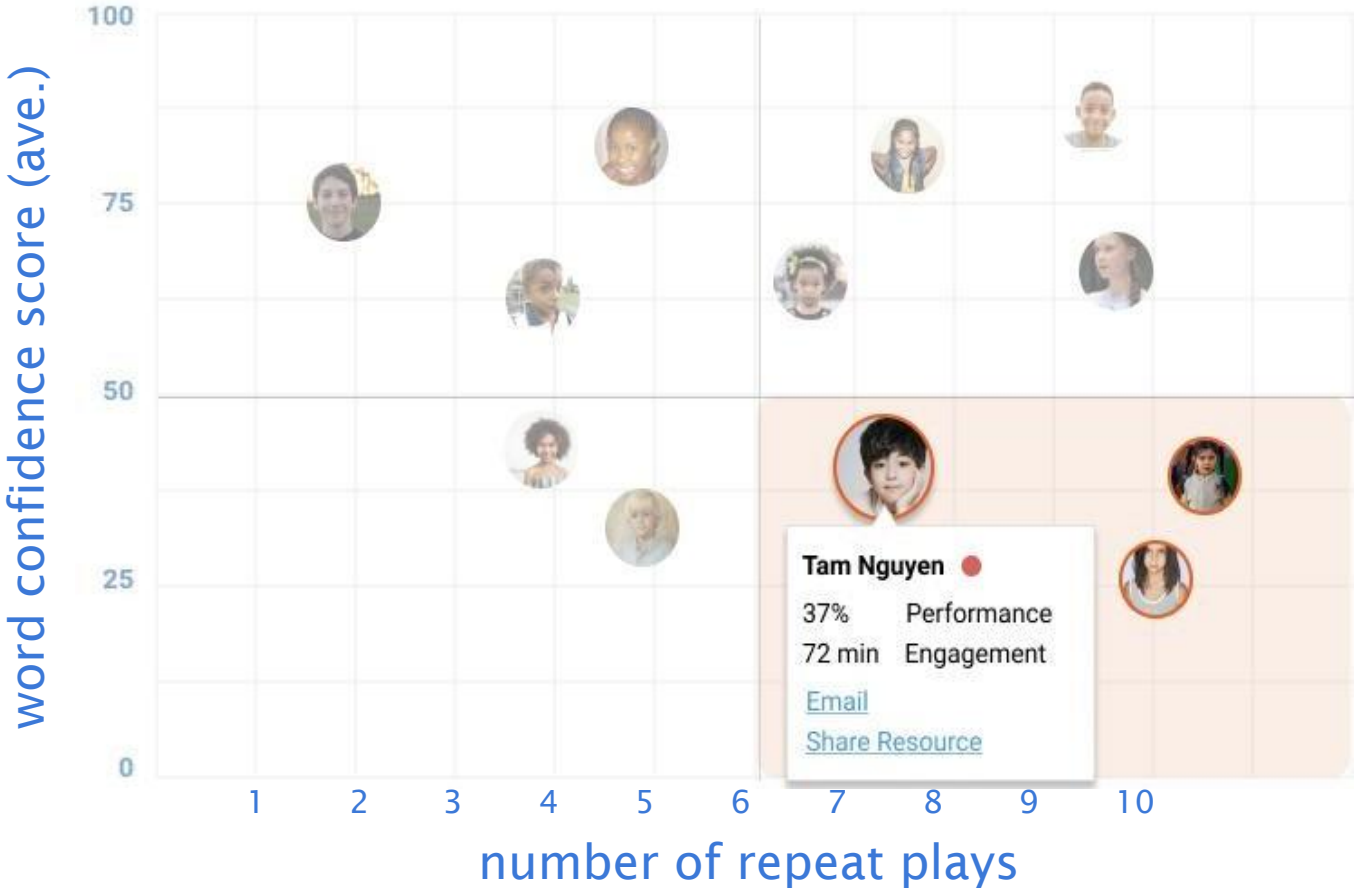
Which students need my help?



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Message More...

Adam Black · 1st

Strategic Advisor, Board Member, Non Exec Director | Education Technology | Strategy | Business Development | Innovation | Learning Sciences | Analytics | Leadership

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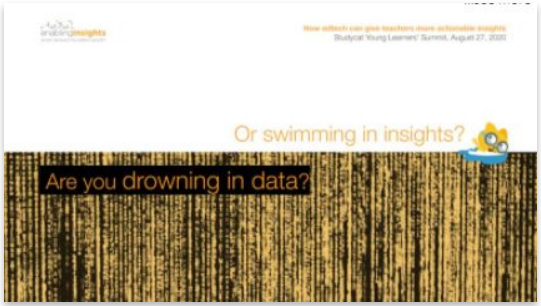
University of Cambridge



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https://enablinginsights.com/webinar-how-to-design-actionable-edtech-dashboards-for-educators/

What are we doing today?

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Bigger Data

Studycat case studies

6,700 learners

1.3 million activities played

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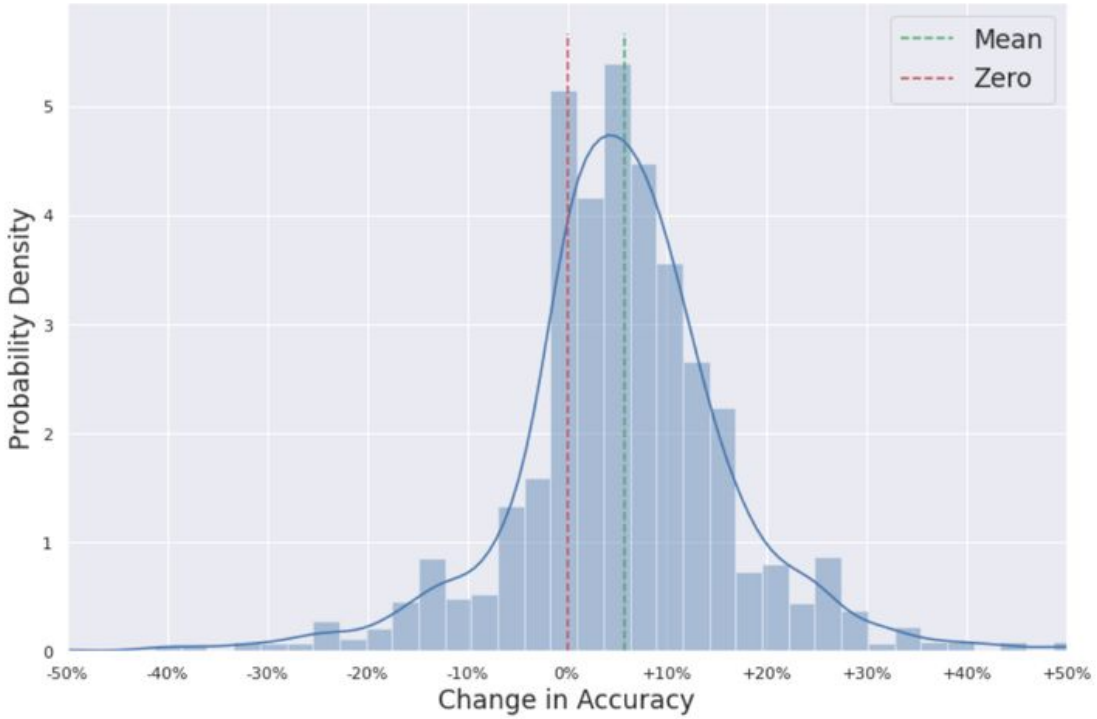
Learners improve their accuracy by an average of **6% points** per session on quizzes.



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This is data

In [10]:
```
data = {}
with tqdm(total=l      n)) as pbar:
    for ix, x in       terrows():
        if x.user      in data:
            data[x.user] = {}
        if x.cls_loc not in data[x.user]:
            data[x.user][x.cls_loc] = []
        y = x.to_dict()
        y['ix'] = ix
        data[x.user]      s_loc].append(y)
        pbar.update()
```

```
  0%|          | 0/19      [00:00<?, ?it/s]
```

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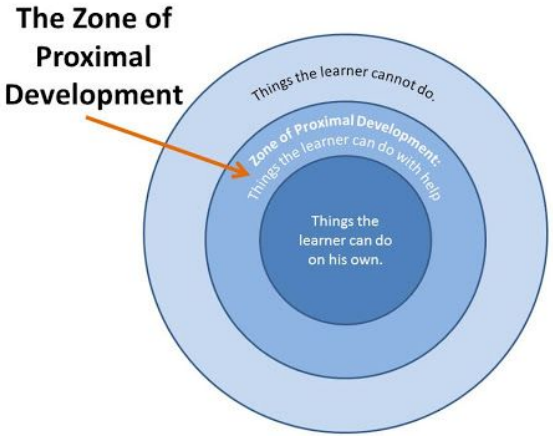
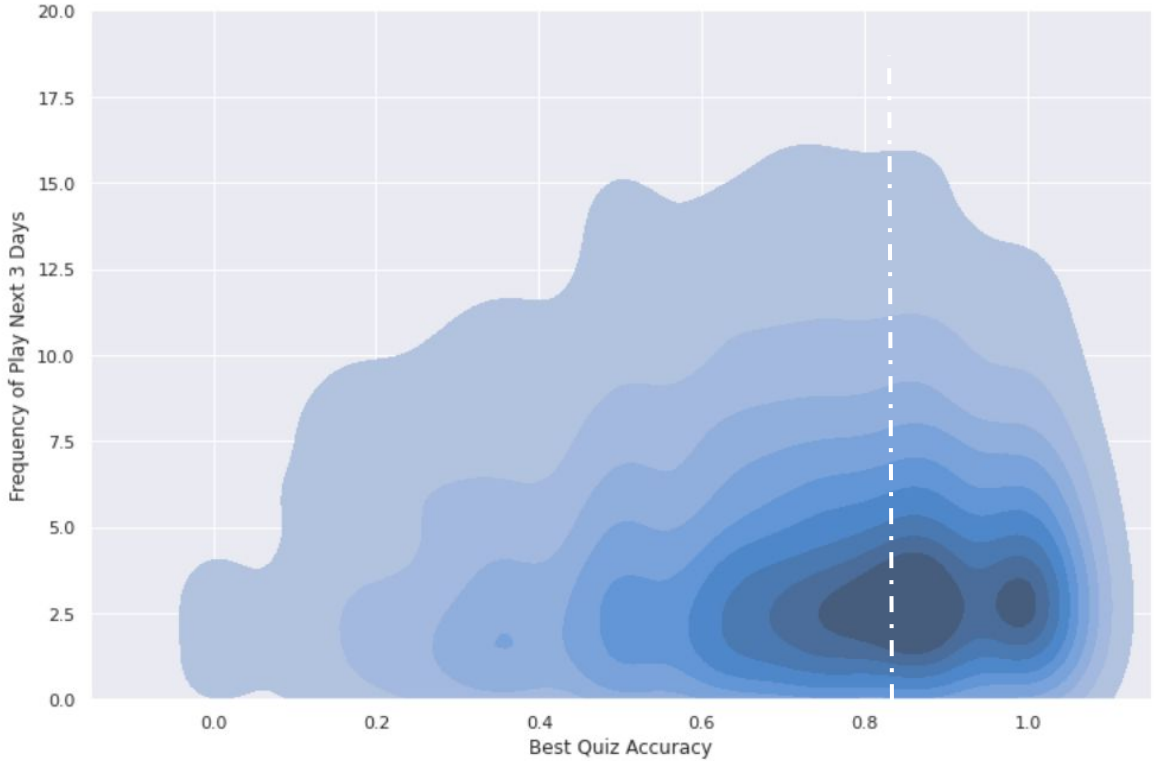
This is an insight





Challenge level and continued play

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Objective:

insights on language learning from learners around the world

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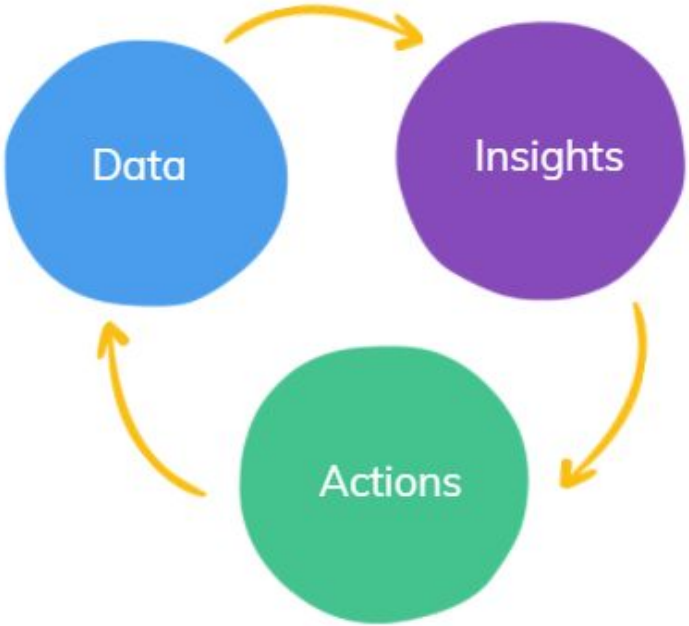

= behaviour change

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