

# Who are our users?

A closer look at the user base of Kahoot...

Out[197]: +

Out[198]: +

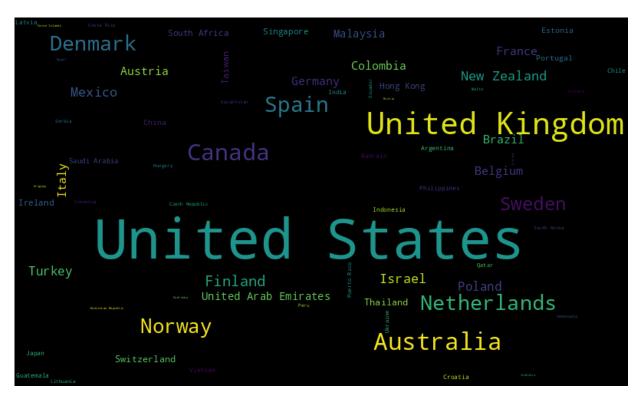
### Where are they from?

Kahoot was played in 100 countries within the selected week!

Out[191]: +

Kahoot truly is a global company, with players spanning the United States, all through Europe, India, Asia and even Greenland!

However, there are big differences when it comes to what countries Kahoot really stands out.. Let us have a closer look at how countries rank by number of users:



#### Out[12]: +

The figure above shows how countries are ranked by number of users. The top countries are typically well developed western countries who speaks English either as a first or second language. The UK, Australia and Canada and all the nordic countries are also among our top Kahooters.

This figure does however not illustrate the ratio of users...

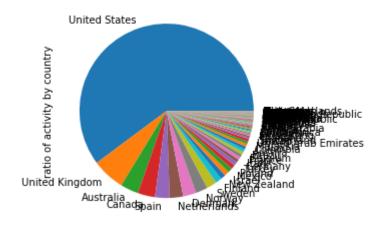
Below are two lists, one showing the most active countries by number of users, and one showing the least active countries during this specific week.

10 Most active	countries:	country
United States	6017	
United Kingdom	612	
Australia	335	
Canada	321	
Spain	269	
Netherlands	252	
Denmark	243	
Norway	224	
Sweden	189	
Finland	117	
dtype: int64		

10 least active countries: country

Cayman Islands	1
Panama	1
Sudan	1
Curaçao	1
Morocco	1
Greenland	1
Nicaragua	1
Oman	1
Pakistan	1
Isle of Man	1
dtype: int64	

### Out[17]: +



The pie chart shows that US is by far our biggest player, with more than half our users within a given week. Other well developed western countries who speaks english, like the UK, Australia and Canada and all the nordic countries are also among our top Kahooters, but they are still far away from having the same user base.

# What type of users are there?

Looking away from what country our users are from, we categorize them into 4 different

#### types of users:

types of users:

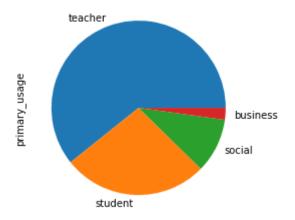
teacher social student business

Out[19]: +

### Looking at the ratio of the different user types tells a clear story:

Ratio of users, grouped by user type:

### Out[23]: +



Teachers dominate among our users, covering more than half the users within a week, with students coming in at a strong second.

The educational use of Kahoot thus shows to be the strongest force driving Kahoot

## How do they use Kahoot?

Among our users, many of them are there just to play / attend, while others put a lot of effort into creating content for others. With a median of 2 Kahoots created for a random user, and over 15% of the users never having created a Kahoot themselves.

percentage of users who never created a kahoot: 15.8

Out[52]: +

There are some users that really loves making kahoots, reaching up to values as high as 300+ kahoots created. These top creators are teachers, with a way higher engagement regarding creation of Kahoots.

```
Overview of stats of Kahoots created by teachers
                   5461.000000
          count
                     12.578649
         mean
         std
                     20.131852
         min
                      0.000000
         25%
                      1.000000
         50%
                      6.000000
         75%
                     16.000000
                    326.000000
         max
         Name: my kahoots count, dtype: float64
Out[31]: +
         count
                   3531.000000
```

Overview of stats of Kahoots created by non teachers:

1.864911 mean std 3.088155 0.000000 min 25% 1.000000 50% 1.000000 75% 2.000000 42.000000 max

Name: my kahoots count, dtype: float64

Out[32]: +

Teachers stand for over 91% of Kahoots created... Indicating that there truly is a Kahoot for the creator, and a Kahoot for the attenders...

Percentage of how many Kahoots were created by teachers: 0.9125230814192914

Out[34]: +

Kahoot definetely has 1 type of users that can be considered a power user, using Kahoot in a specific way, creating lots of content for others.

Meanwhile, the result of what these power users create are consumed by the other side (those consuming / attending the quiz..)

One side of the product development is thus to create a great platform for the creators, and the other part is to make it interesting and enjoyable for the attendees.

An impressive 97% of games joined by all users were created by teachers.... Strengthening that Kahoot is an educational platform more so than entertainment.

Percentage of how many games that were joined, were created by teachers: 97.49614707838771

Out[73]: <u>+</u>

### Why do they sign up?

Top 20 signup domains			
<pre>domain: count:</pre>			
www.google.com	2374		
kahoot.it	1962		
<pre>getkahoot.com</pre>	948		
create.kahoot.it	487		
www.google.co.uk	291		
www.bing.com	265		
kahoot.com	244		
classroom.google.com	224		
www.google.ca	143		
www.google.com.au	131		
www.google.es	122		
www.google.dk	107		
www.google.nl	105		
www.google.se	90		
www.google.no	74		
www.google.fi	48		
search.yahoo.com	48		
www.google.co.il	44		
www.google.co.nz	40		
www.google.com.tr	38		
Name: initial_referring	_domain,	dtype:	int64

Out[102]: +

Most of the users signs up for Kahoot through google and other search engines. But a lot of our traffic also comes straight from own websites, such as kahoot.it and create.kahoot.it, suggesting that the user is somewhat familiar with the product when signing up. An interesting find is that the "info/marketing page" kahoot.com is way less frequenct than kahoot.it / create.kahoot.it, which CAN indicate that a user is not very likely to sign up just because up 'she "stumbled" upon Kahoot, but is already familiar with the product when signing up.

## Do they come and go?

Many apps struggles with either keeping users engaged over a longer period, and / or attracting new users...

Out[200]: +

Grouping users by year and month, gives us this top 10 list of year and month driving the most users:

created	
2017-05	2802
	1032
2017-04	627
2017-03	423
2016-09	335
2016-11	305
2017-02	296
2016-10	275
2016-12	257
2017-01	246
dtype: in	t64

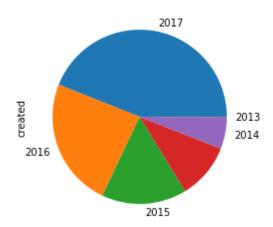
### Out[201]: +

Most of the users are from the current month, but there is definitely a tail from users that registered the previous months, and keeps playing.

#### Out[212]: +

Ratio of when active users created their accounts...

### Out[210]: +



Looking at the pie chart above, one can see that a lot of the users created their accounts a long time ago. Looking at those users that registered at least 6 months ago we find that they account for about 53% of the active users!

Percentage of users active this week, that registered more than 6 months ago: 53.46

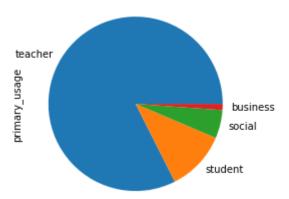
### Out[152]: +

This is highly valuable, indicating that there is a great mixture between new users, and older users that have found good use of the product...

becomes engaging users that stays. More than 75% of the "old" users are teachers..

Ratio of types of "old" users

Out[161]: +



This resonates well with the thoughts about teacher's being power users, and that Kahoot has built a product that delivers value to educational environments...

I could keep diving into data for quite some time, looking at differences between app-usage and browser usage, raising and answering new questions, but this case challenge has been pretty time extensive. Let's summarize....

# **Summary/Conclusion**

Kahoot is a global company, reaching users in more than 100 countries. But even though the reach is big, the western market dominates, with US being the biggest.

There are four types of users:

- teachers
- students
- social
- business

But we can divide them on an even more abstract level:

- creators
- · players / attenders

Most of the active users are teachers, and most of the content available on Kahoot is created by teachers. Around 97% of the users that joined a Kahoot, joined a Kahoot created by a teacher. So even if "social" is a type of user, the type of games played are weighted towards the educational. However, this mix of social and educational CAN indicate that the user base is interested in involving more "fun" in learning.

> Teachers are the power users off Kahoot, and I would guess (my intuition only) that most of the revenue Kahoot generates are from teachers, in the US.

Users mostly sign up because they have a direct motivation (joining a game, or creating a kahoot), which indicates that they have prior knowledge to what Kahoot is when signing up.

Kahoot has a good mix of new users and users that have stayed with the product for a long time. A huge ratio of the old users (>75%) are teachers. More than half of the active users for the given week had signed up atleast 6 months ago, with some dating as far back as 2013....

Having such a mix indicates that Kahoot has a valuable product, with the potential to grow further with the correct efforts...

#### Extra:

Looking into the reach of the most "popular" users, the largest audience a Kahooter has reached out to is 26.000 users.

This tells me that the users aren't doing this for engagement with just about anyone (like on youtube / tiktok), but that the users are interested in providing something to a "closer" social circle. I imagine these top "popular" kahooters are teachers at universities that have lectures with many hundred students each class. This is supported by looking at the top performing user, a teacher from Oxford, who has been a Kahooter since 2014...

```
In [219]: df users.my kahoots players joined count.sort values(ascending=False)[:100]
Out[219]: user_id
          1779
                   26059.0
          9989
                   21294.0
          4617
                   19411.0
          5836
                   19350.0
          462
                   18419.0
          9114
                    5529.0
          5012
                    5479.0
          3171
                    5473.0
          1627
                    5472.0
          2335
                    5420.0
```

In [224]: df\_users.iloc[1778] Out[224]: city 0xford country United States device Mac device\_type Mac dma Birmingham, AL language English browser Chrome 53 region Alabama 2014 created initial\_referring\_domain www.google.com initial\_utm\_campaign NaN initial\_utm\_content NaN initial utm medium NaN initial utm source NaN kahoots\_favourited\_by\_me\_count 2.0 kahoots\_shared\_with\_me\_count 0.0 my\_kahoots\_answers\_received\_count 247619.0 my\_kahoots\_count 32.0 my kahoots favourited by anyone count 521.0 1735.0 my kahoots played by anyone count my\_kahoots\_players\_joined\_count 26059.0 my kahoots questions count 305.0 my\_kahoots\_shared\_by\_anyone\_count 14.0 primary usage teacher Name: 1779, dtype: object

### Out[117]: +