CODEFLIX CHURN RATE

What the date tells us

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Get familiar with the company

CODEFLIX has been operating for only 4 months since 2016-12-01. Of those months, there are only three months that provide enough data to show us churn. 2017-01-01 through 2017-03-31

- 1. Intro
- 2. Overall churn rate by month
- 3. Comparison of churn rates between segments
- 4. Conclusion

SELECT MIN(subscription_START)
from subscriptions
;

MIN(subscription_START)

2016-12-01





Churn Rate

The findings were concerning

→ Unexpected

One of our segments is performing extremely well while the other segment is losing a quarter to almost half of subscribers each month.

→ Simple

One small change can drastically change the company churn rate

month	churn_rate_87	churn_rate_30
2017-01-01	0.252	0.076
2017-02-01	0.32	0.073
2017-03-01	0.486	0.117

What is the overall churn trend since the company has started

Dec 2016

Not enough data to calculate churn

Feb 2017

7% increase in churn rate for segment 87

Trends are showing that churn will continue to increase at current rate

Jan 2017

Segment 87 is immediately off to a bad start at a churn rate of ~25%

Mar 2017

Highest churn rate for both segments in 2017

Comparison of Churn rates between User Segments

Segment 87

- 25% 48% churn rate over three months
- Steep and consistent downward slope

```
WITH months AS

(SELECT

'2017-01-01' AS first_day,
'2017-01-31' AS last_day

UNION

SELECT

'2017-02-01' AS first_day,
'2017-02-28' AS last_day

UNION

SELECT

'2017-03-01' AS first_day,
'2017-03-31' AS last_day

),

cross_join AS

(SELECT subscriptions.*, months.*

FROM subscriptions

CROSS JOIN months
),
```

```
first_day AS month,
           WHEN (subscription_start < first_day)
             AND (subscription_end > first_day OR
             AND (segment = 87) THEN 1 ELSE 0
               END AS is_active_87,
           WHEN (subscription_start < first_day)
             AND (subscription_end > first_day OR
             AND (segment = 30) THEN 1 ELSE 0
               END AS is active 30.
           WHEN (subscription_end BETWEEN first_day AND last_day
            AND (segment = 87) THEN 1 ELSE 0
               END AS is_canceled_87,
           WHEN (subscription_end BETWEEN first_day AND last_day)
            AND (segment = 30) THEN 1 FLSE 0
               END AS is_canceled_30
 FROM cross_join),
status_aggregate AS
     SUM(is_active_87) AS sum_active_87.
     SUM(is active 30) AS sum active 30.
     SUMCis canceled 87) AS sum canceled 87.
     SUM(is_canceled_30) AS sum_canceled_30
   FROM status
```

Segment 30

- 7% 11% churn rate over three months
- Churn rate was stable at 7% for two months but March's increase in churn is concerning

```
SELECT
  month,
  ROUND(1.0 * sum_canceled_87/sum_active_87, 3) AS churn_rate_87,
  ROUND(1.0 * sum_canceled_30/sum_active_30, 3) AS churn_rate_30
FROM status_aggregate
;
```

Segment 87 Findings

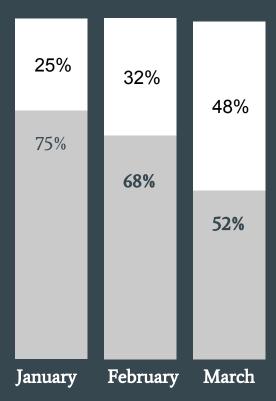
Churn Rate Total Subscriptions

Segment 87 is performing very poorly. The best month only retained 75% of subscribers and the worst month lost almost half of all subscriptions.

Implications:

- The steady decline from January to February is concerning and begs the question as to what is wrong with the user experience in segment 87.
- The increase in churn for the month of March coincides with that of segment 30.

Subscriptions





Segment 30

Findings

Segment 30 has been incredibly successful at retaining subscribers but with a notable increase in churn in March

Churn Rate:

- Churn rate is very low with only 7% of subscriptions in Jan. and Feb. canceling and 11% cancellations in March.
- The sudden increase of cancellations in March should be something to look into.

Subscriptions



Suggested Action

Segment 30 has shown a consistently low churn rate and if Codeflix will take their focus off of Segment 87 and put all of their efforts towards Segment 30 then they will be able to dramatically decrease the amount of canceled subscriptions each month.

Segment 87 should be immediately terminated so that Segment 30 can thrive for Codeflix even more than it has been and Codeflix will then see steady growth.