



Dognition case study

Recommendations for increasing tests completion rate

Data Visualization and Communication with Tableau
Duke University
Final Project, 2018

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The problem



The current completion rate for total 20 tests: 23%

SMART rec.

Determine the website changes that will most efficiently increase the number of tests user completed by **X%** on a month-to-month basis compared to the same month last year

DV 1: Total tests completed (sum)
DV 2: total tests completed per user
DV 3: average tests completed per user

Do specific behaviors disproportionately contribute to # of completed tests?

Do specific demographics disproportionately contribute to # of completed tests?

Does marketing/notification help increase # of completed tests? If so, what's the most effective way of doing it?

Longer time spent on site?

Free start user?

Membership type?

Country/city?

breed?

Dog age?

Golden Marketing Time?

Target audience?

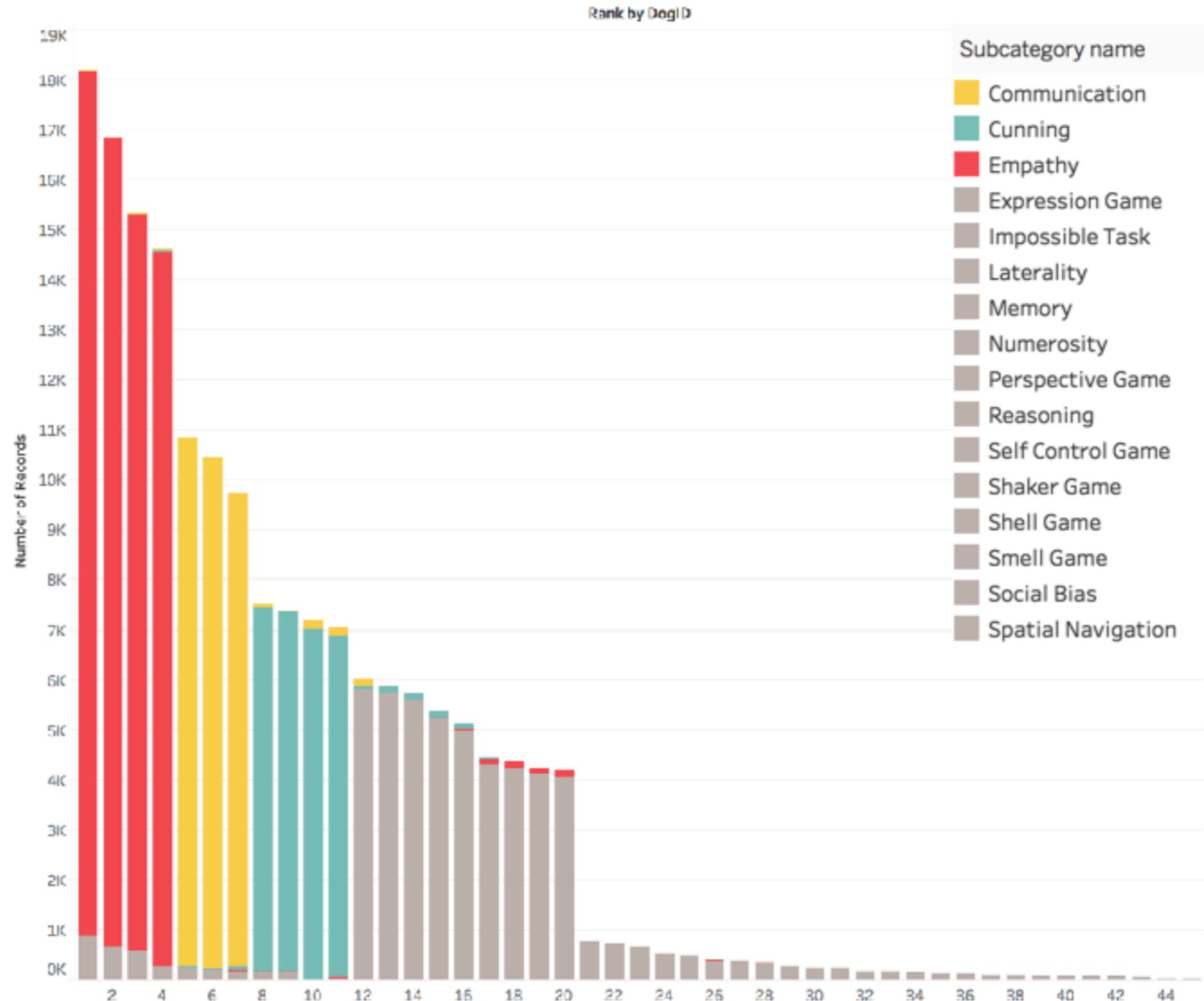
The recommended solution

- **Recommendation 1:** adding hooks in between games to help user start the next game (e.g. “start the next game in three days to earn \$20 credit to the account”, “start the next game to unlock XYZ report/fun quizzes for your dog”)
- **Recommendation 2:** A/B testing the effectiveness of marketing/notification in the “dognition golden marketing time”
- **Recommendation 3:** encourage for subscription

Recommendation 1: adding hooks in between games to help user start the next game

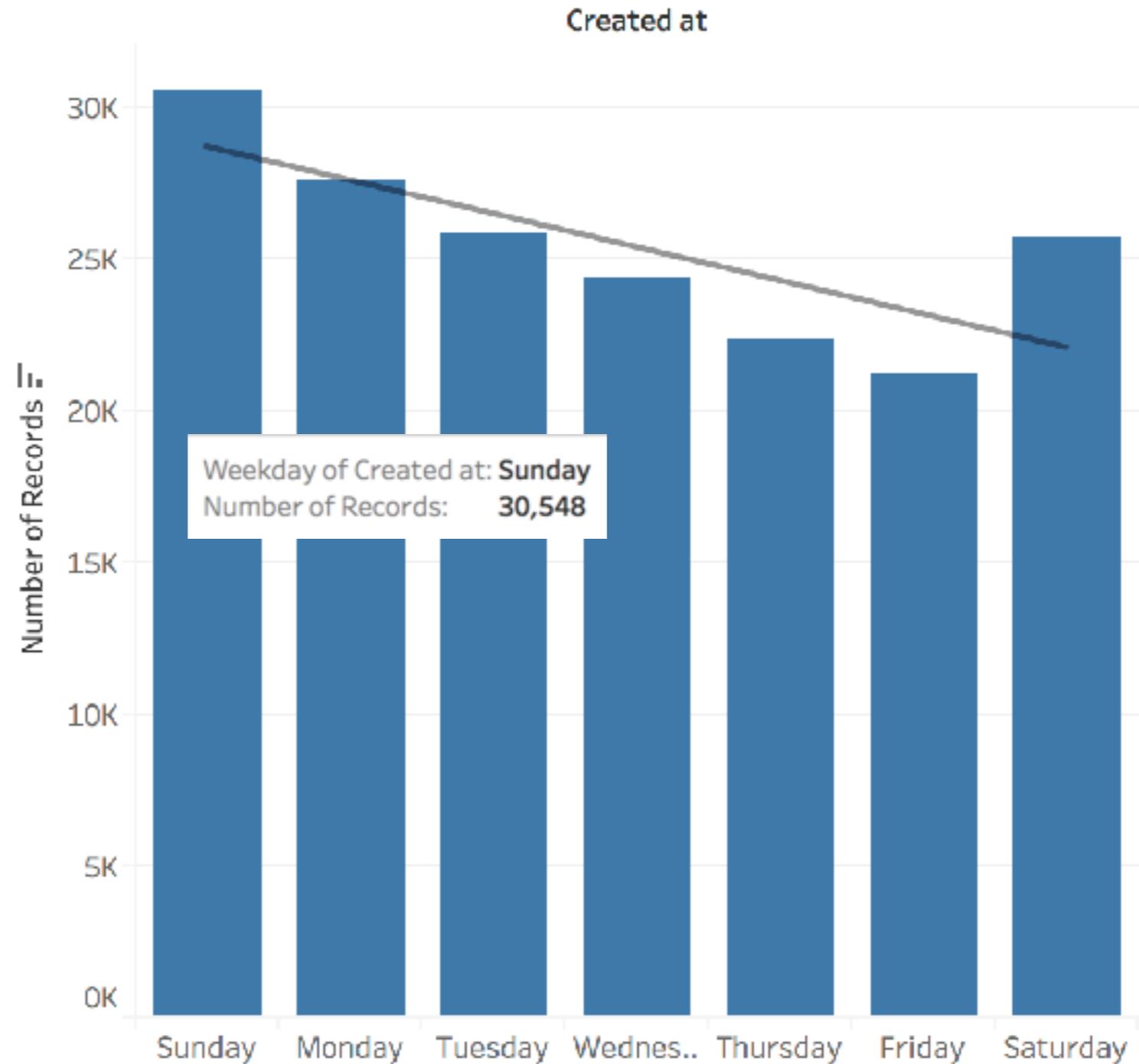
1.
More people stop completing tests **after one game** is over, rather than within the game

2.
The highest drop-off rate happens after the eye-contact game **(first subcategory)**



Recommendation 2: marketing/notification in the “Dognition golden marketing time”

1. **Sunday** is the peak time of usage
2. **Weekend** has higher participation rate than weekdays

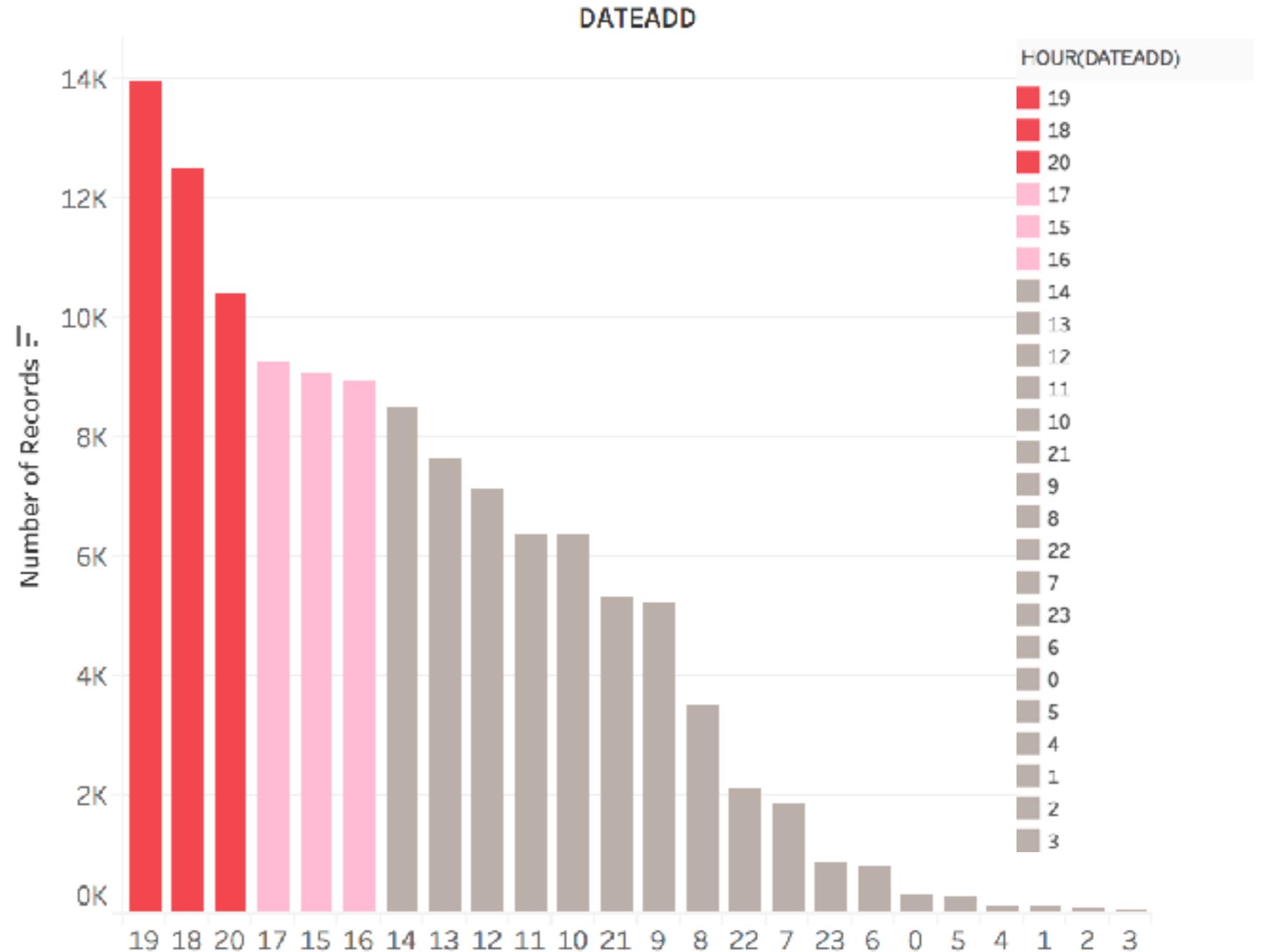


Recommendation 2: marketing/notification in the “Dognition golden marketing time”

3. **7pm** has the highest completion rate

4. Marketing/notifications will reach the majority of audience if it's done during **6pm-8pm**

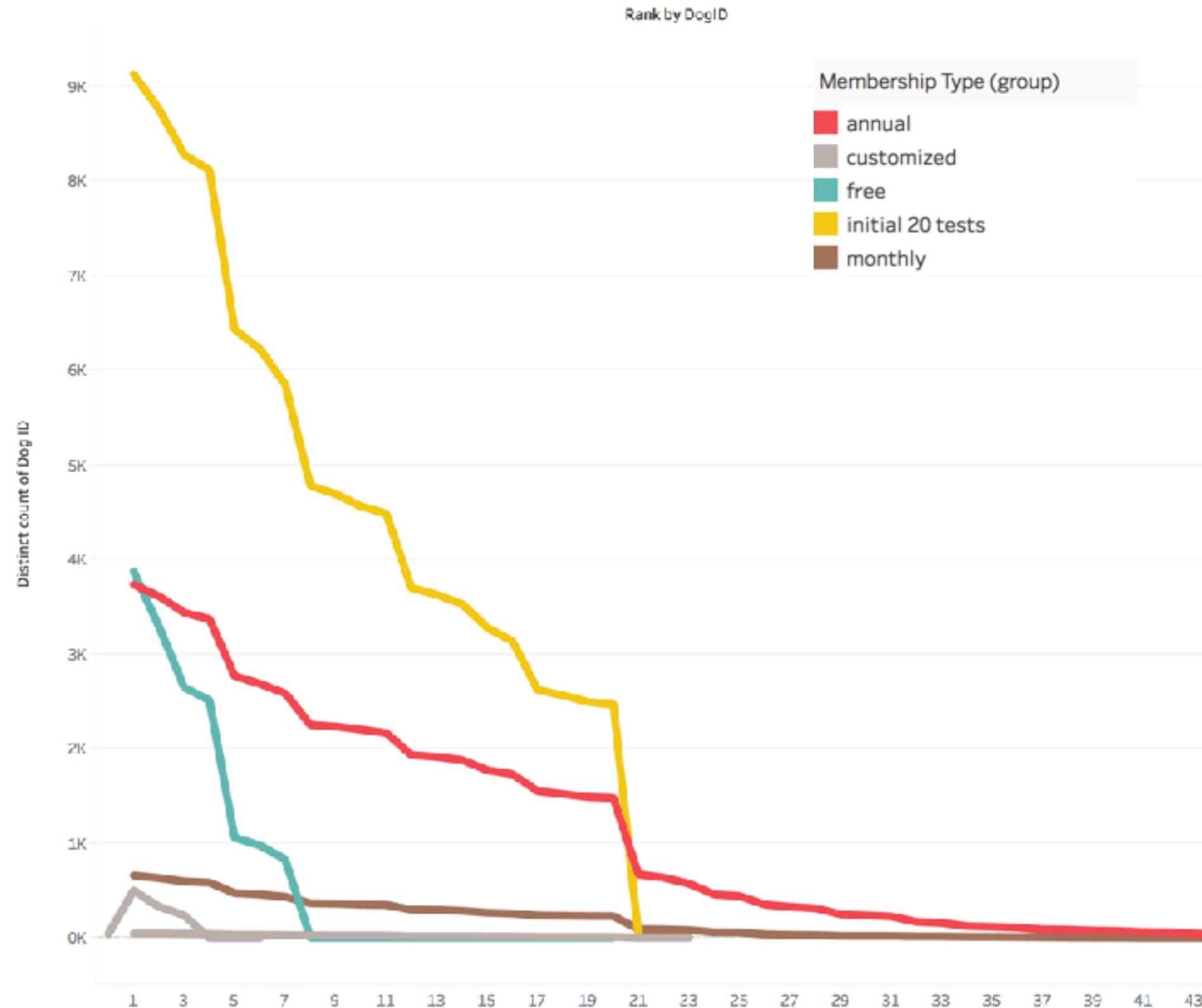
5. The second optimal marketing/notification period is **3pm-5pm**



Recommendation 3: encourage subscription

1. Subscribers make up the majority of loyal users/ active users (83.18%)

2. **Initial 20 tests** subscribers are the majority of all the subscribers, and they contributed **the most tests result**, followed by annual subscribers and free start users.

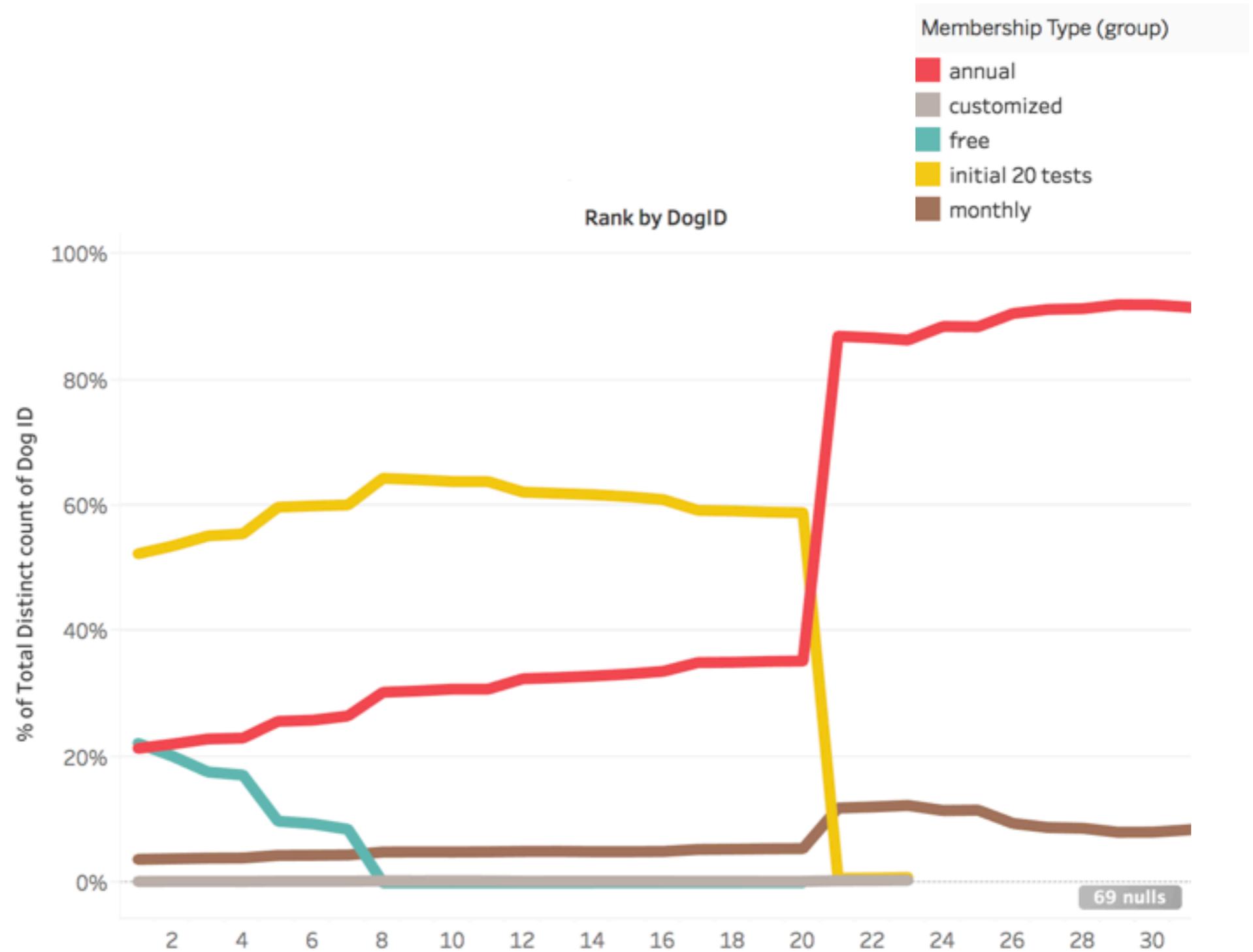


Recommendation 3: encourage subscription

3. Annual

subscribers are more loyal and contributed the most in the long term (after 20 tests)

4. The type of subscription that contributed most to the completion rate: **Annual users** and **initial 20 tests** users.



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In sum

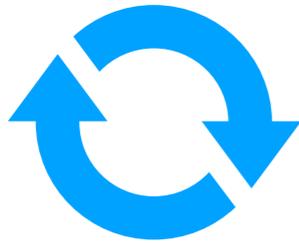
Factors that contribute to completion rate

- **promo/incentive in between games**
- **marketing/notification and its timing**
- **Subscription**

Factors that don't contribute to completion rate

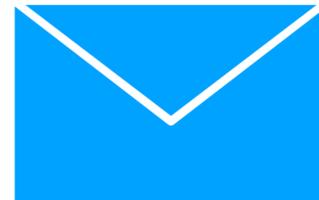
- free start users
- No significant correlation between completion rate and geographical location/ dog breed/ registration time

The next step



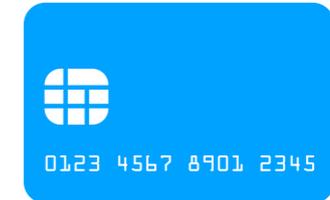
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A/B testing the
effectiveness of
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Encourage for
subscription

Annual subscription
& initial 20 tests
subscription