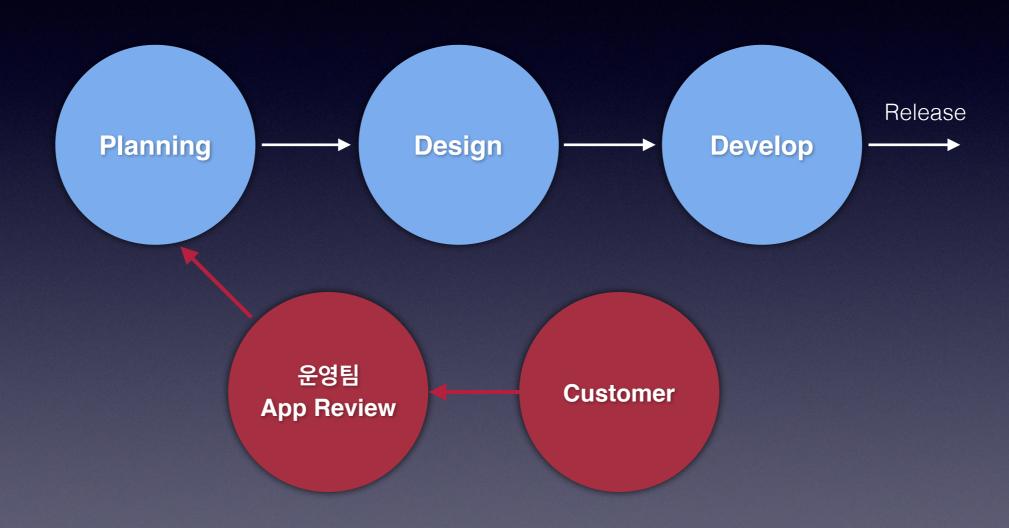
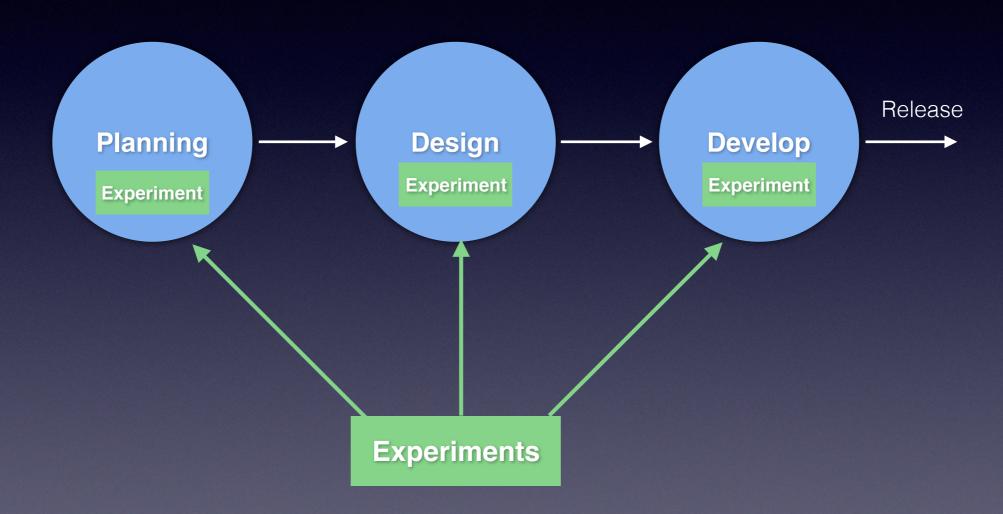


Agenda



Agenda



History



May 2012

Real-time DB
Hosting
Authentication



Oct. 2014

Acquired by Google Analytics imported Remote Config A/B Testing

Jan. 2017

Acquired Fabric from Twitter
Crashlytics imported
App distribution

Contents

3 rules for the Firebase Analytics

Remote Config

A/B Testing

Analytics

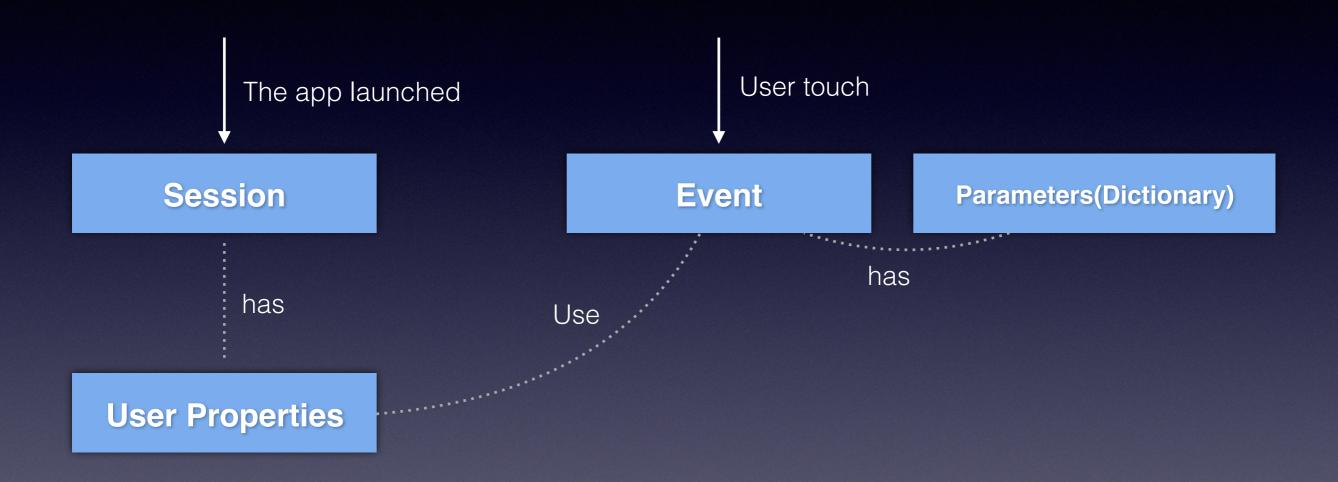
Event

What is happening in your app, such as user actions, system events, or errors.

User-Property

Attributes you define to describe segments of your user base, such as language preference or geographic location.

Analytics Map



1. Let's use user-properties for event filtering

The Age, Gender, and Interests properties are automatically collected.

Analytics.setUserProperty(value, key)

Analytics.setUserProperty(7, "my_album_count")

Analytics.setUserProperty("offline_streaming", "user_right")

1. Let's use user-properties for event filtering

Banner

'Home screen init' 100 times 'Banner_click' 50 times

'Banner_click' event's User property (Age)

Age(20~30): 45 times / 50 persons

Age(40~50): 5 times / 50 persons

1. Let's use user-properties for event filtering

- 1. 'my_album_count' property registered.
- 2. inspect 'delete' event with user properties

Delete

Playlist

Audiences

- Audience = User properties + Events.
- Let you segment your users who are important to business.
- Analyze how different user segments engage with the app.

Audiences

Experiment: A user who has a lot of my albums will not leave our service.

Solution: create 'leave_bugs_audience' Audience

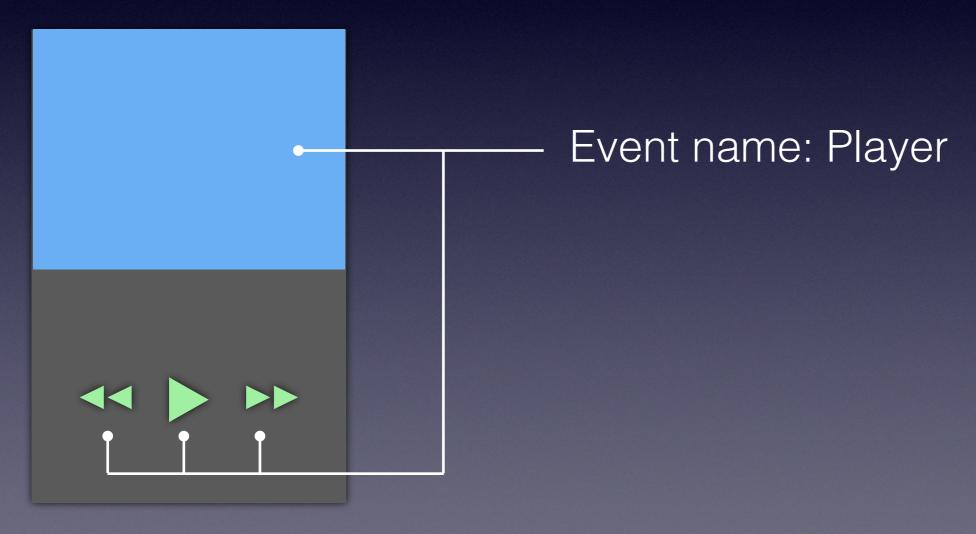
User property: my_album_count, user_streaming_right ...

Event: leave_bugs

Demo of User property, Audiences

2. Describe the event name in detail

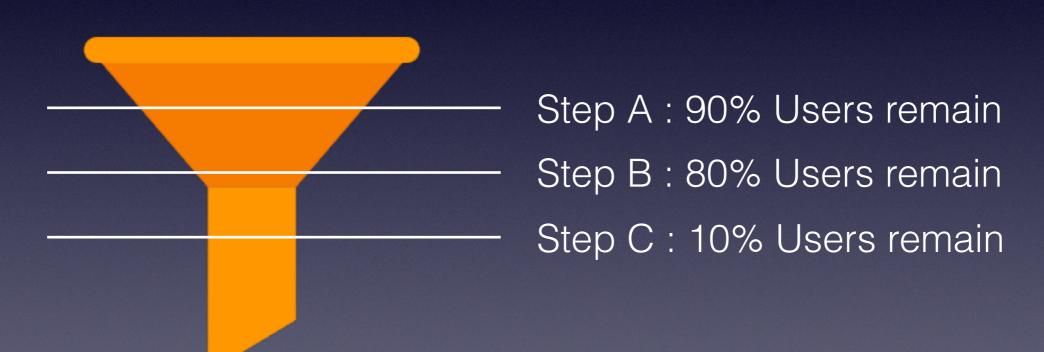
as is



Funnels

Goal

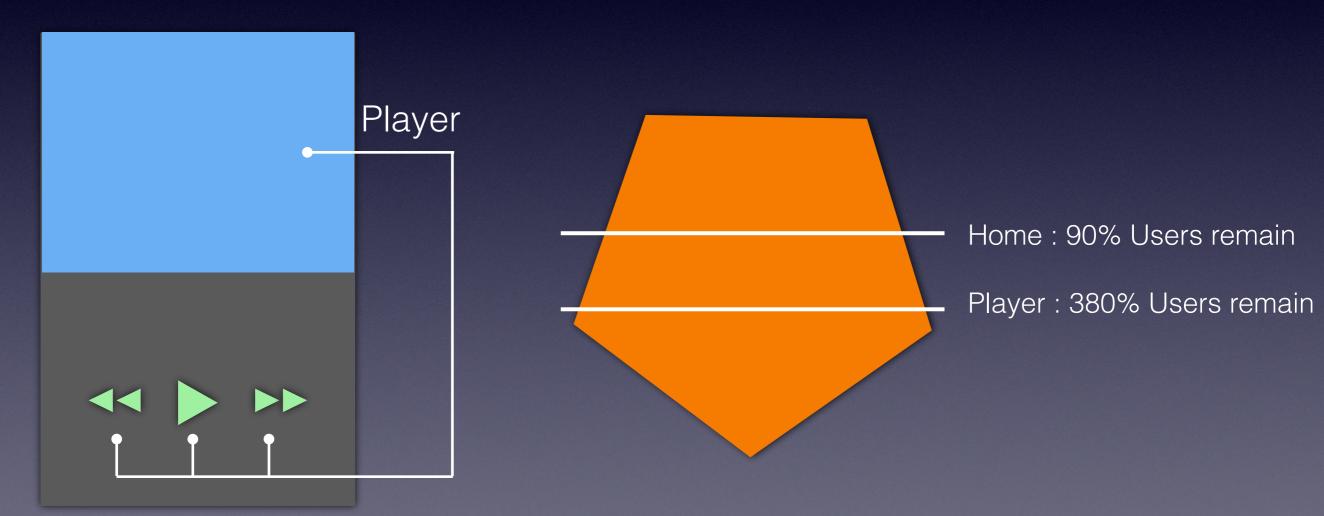
Visualize and optimize the completion rate of a series of steps(events)



Goal: 3% Users reach the goal

2. Describe the event name in detail

as is



2. Describe the event name in detail

to be

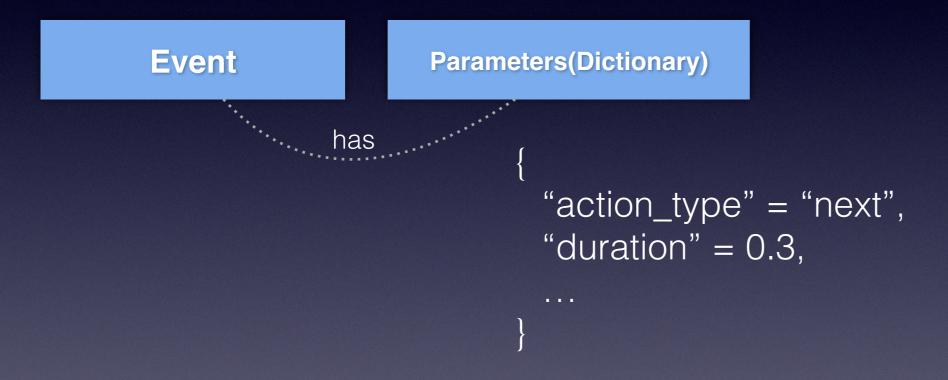


Demo of Funnels

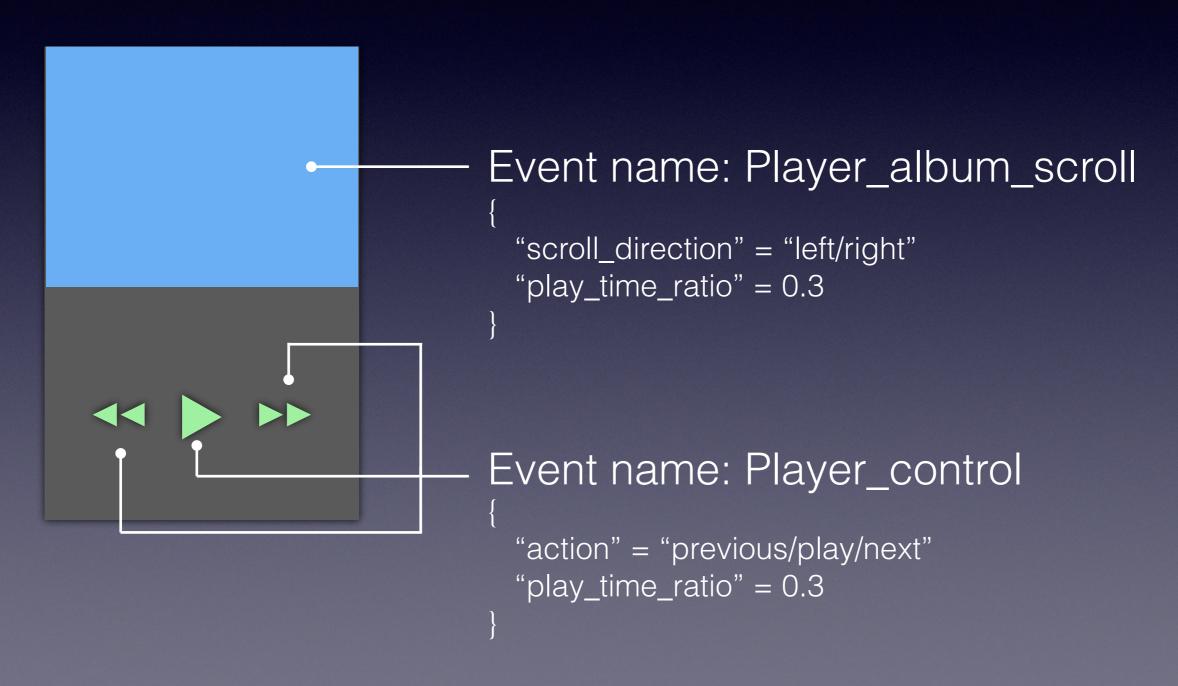
Problem: Too many events can make we feel confuse to analyze it



3. Use event's parameters with multiple and specific values

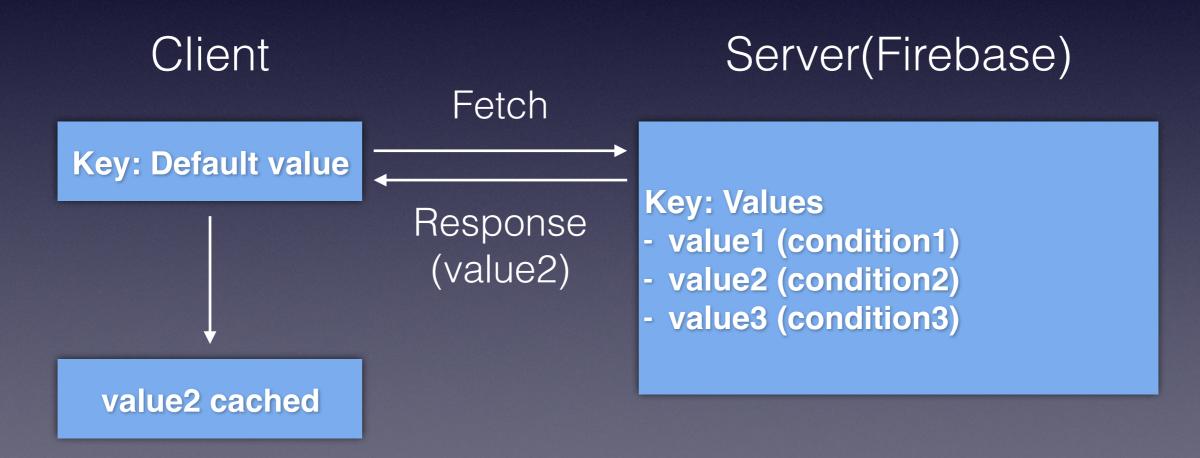


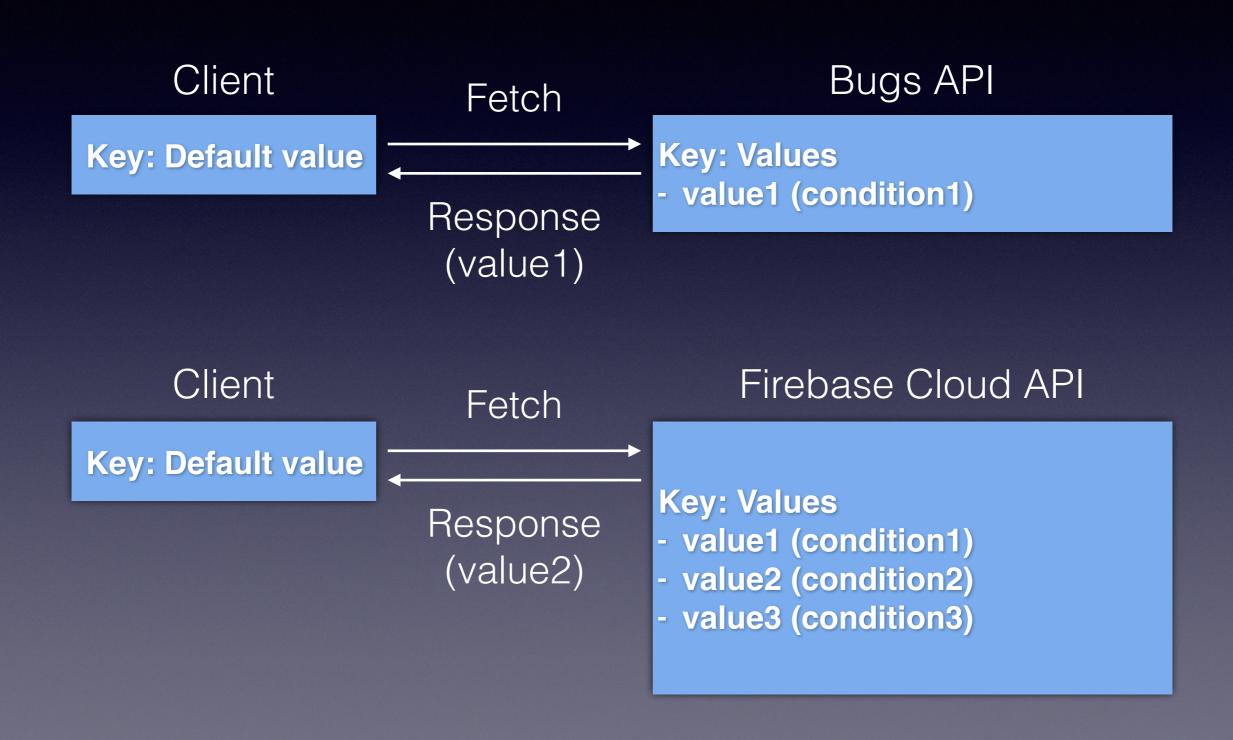
3. Use event's parameters with multiple and specific values



- 1. Let's use user-properties for event filtering
- 2. Describe the event name in detail
- 3. Use event's parameters with multiple and specific values

Cloud service that lets you change the behavior and appearance of your app without requiring users to download an app update





Conditions

- App os version, Date/Time, User random(10%, 20%...)
- Device language, region
- User in Audience(User properties)

Phased release to random user not by platform but ourselves

Example: Let's roll out 'Equalizer'

- 1. Make a target audience (Equalizer_tester)
- "radson_on" = true, "user_streaming_right" = "streaming"
- 2. Make a random condition with audience



Set banner differently as a condition

TYPE B: 19 Prohibited contents banner (Age: 301)

TYPE C: 7080 K-Pop remix banner (Age: 401)

TYPE A: BTS new album banner (Age: 30↓, Favorite: "idol")

TYPE D : 아기 상어 Banner (Favorite: "child")

TYPE E: Recent episode (Favorite: "radio")

박범석: Birth 1965(54), Favorite: "none"

송레지나: Birth 1997(22), Favorite: "idol"

김이영: Favorite : "Rock"

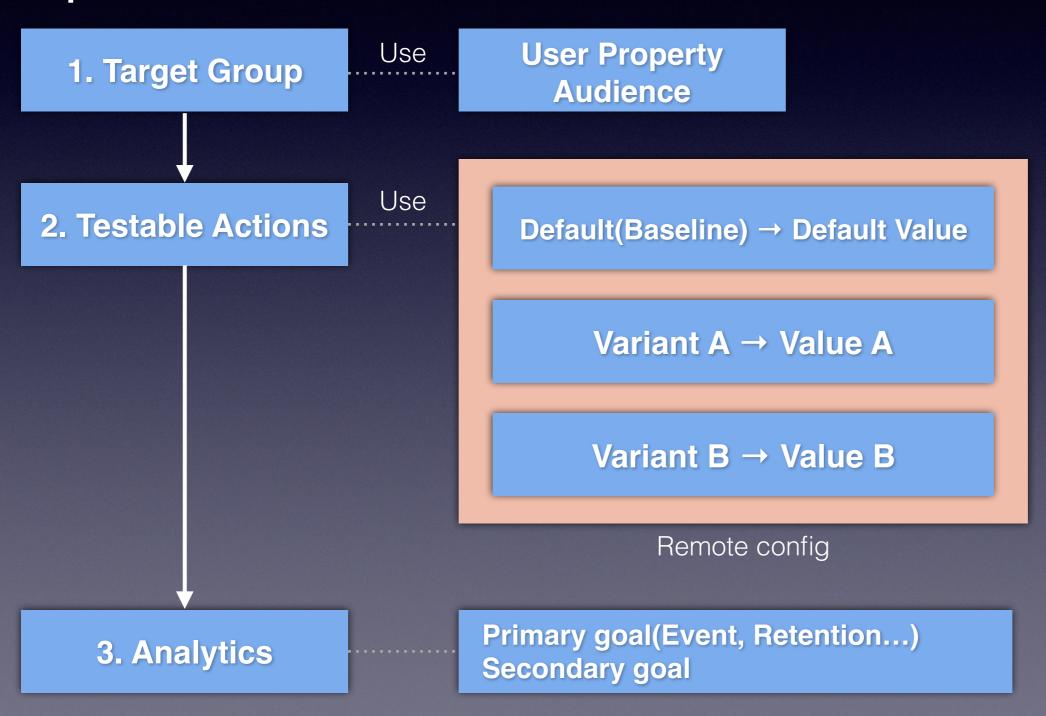
Section

Demo of Remote config

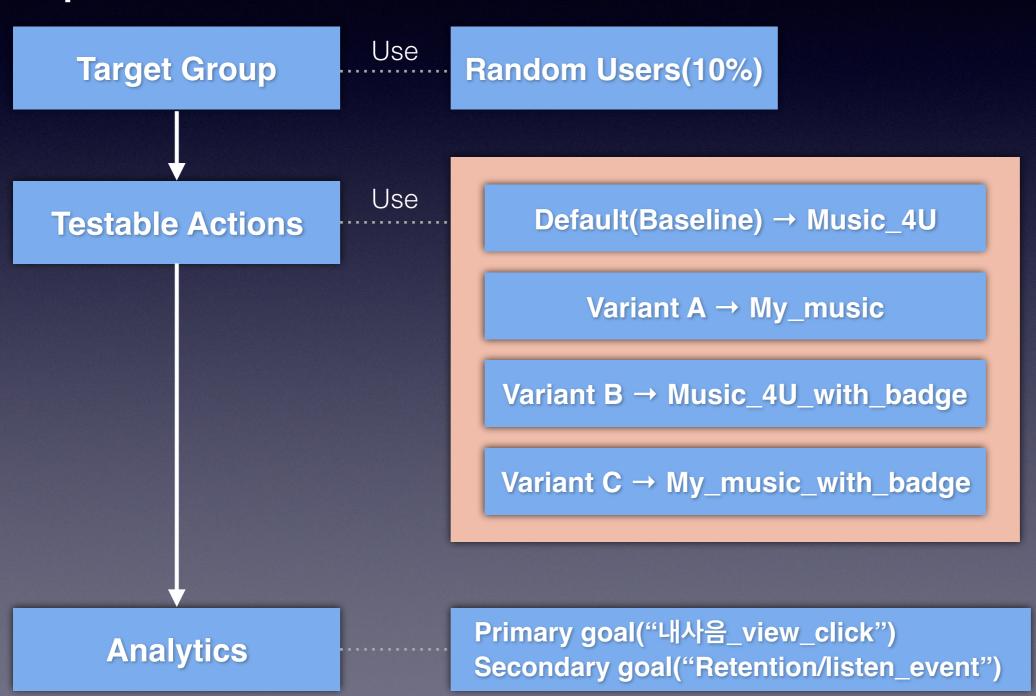
Optimize your app experience by making it easy to run, analyze and scale product and marketing experiments.

A/B Testing = Remote config + Analytics

Experiment

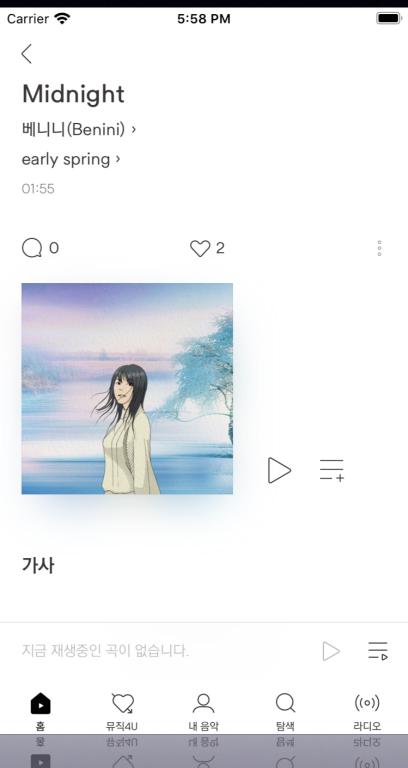


Experiment: What_I_like_most_located

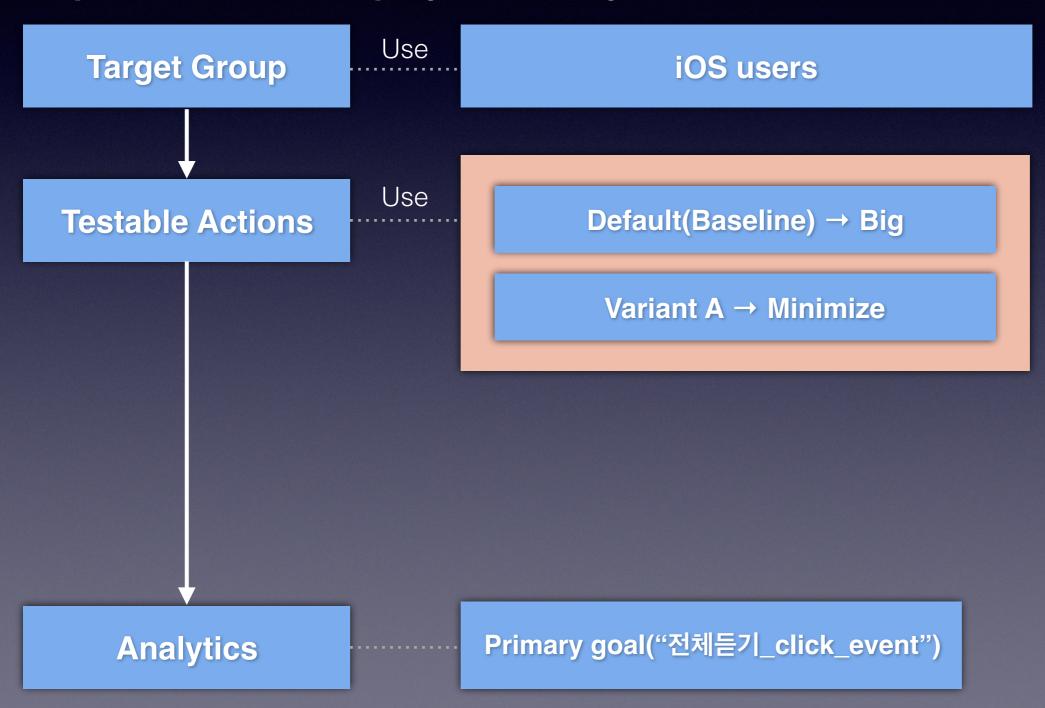


Demo of A/B Testing





Experiment: album_play_all_easily



Experiment: From_Apple_to_Bugs

Target Group

Payment = "app_store" period_month ≥ 6 my_album_count > 1

Testable Actions

Default(Baseline)

Variant A → Present_default_toast message '벅스를 싸게 이용하는 법!', A View

Variant B → Present_discount_view message "내 신용카드로 벅스 싸게 이용하는 법!", B View

Analytics

Primary goal("결재수단_변경_view_click") Secondary goal("결재수단_변경","close_event")

Q & A