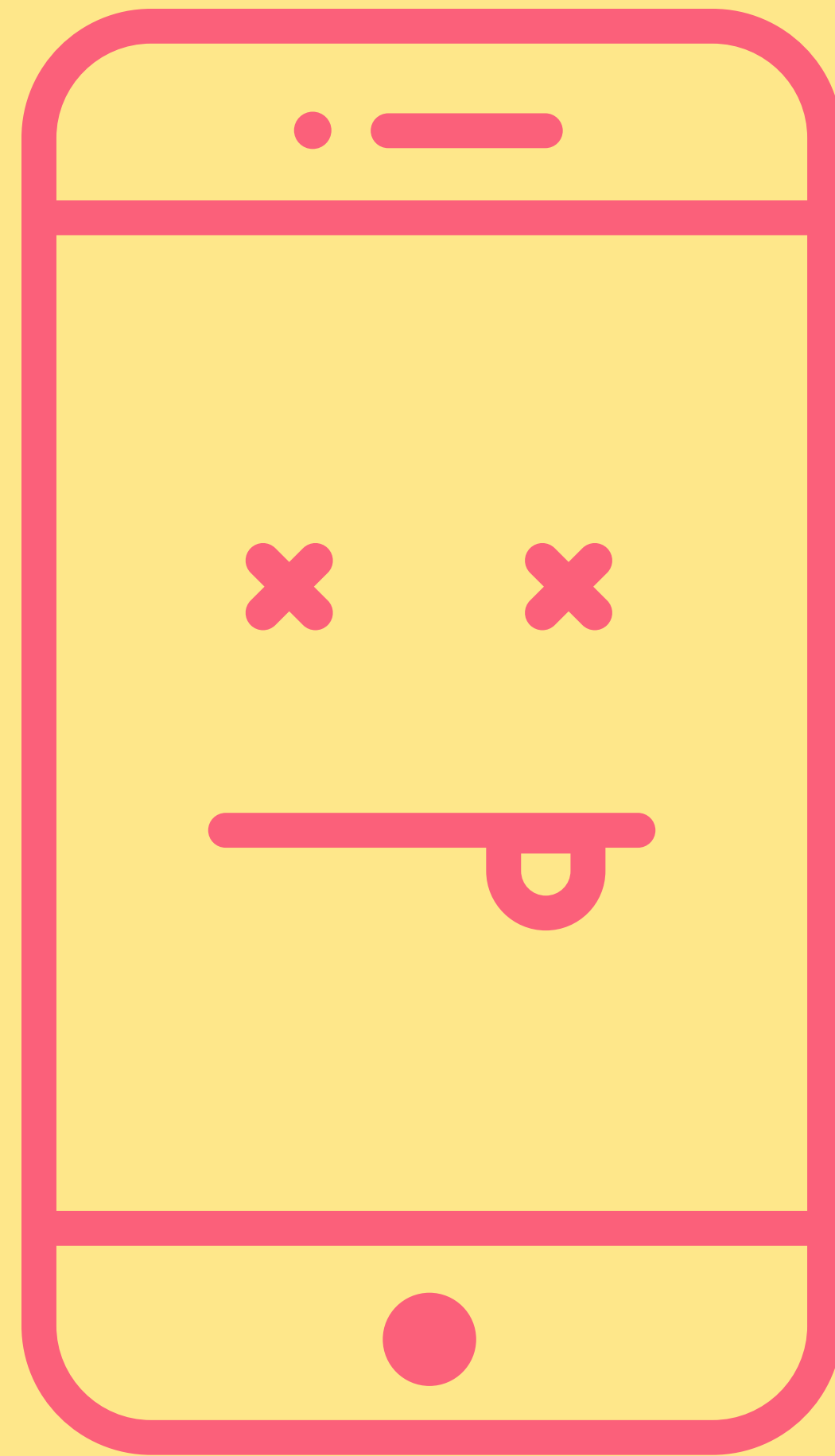


nunchiSM

finally, smartphone knows you're there

april 19, 2016

problem



*smartphone doesn't
know whether you are there*

problem

How can we calculate

User Attention?

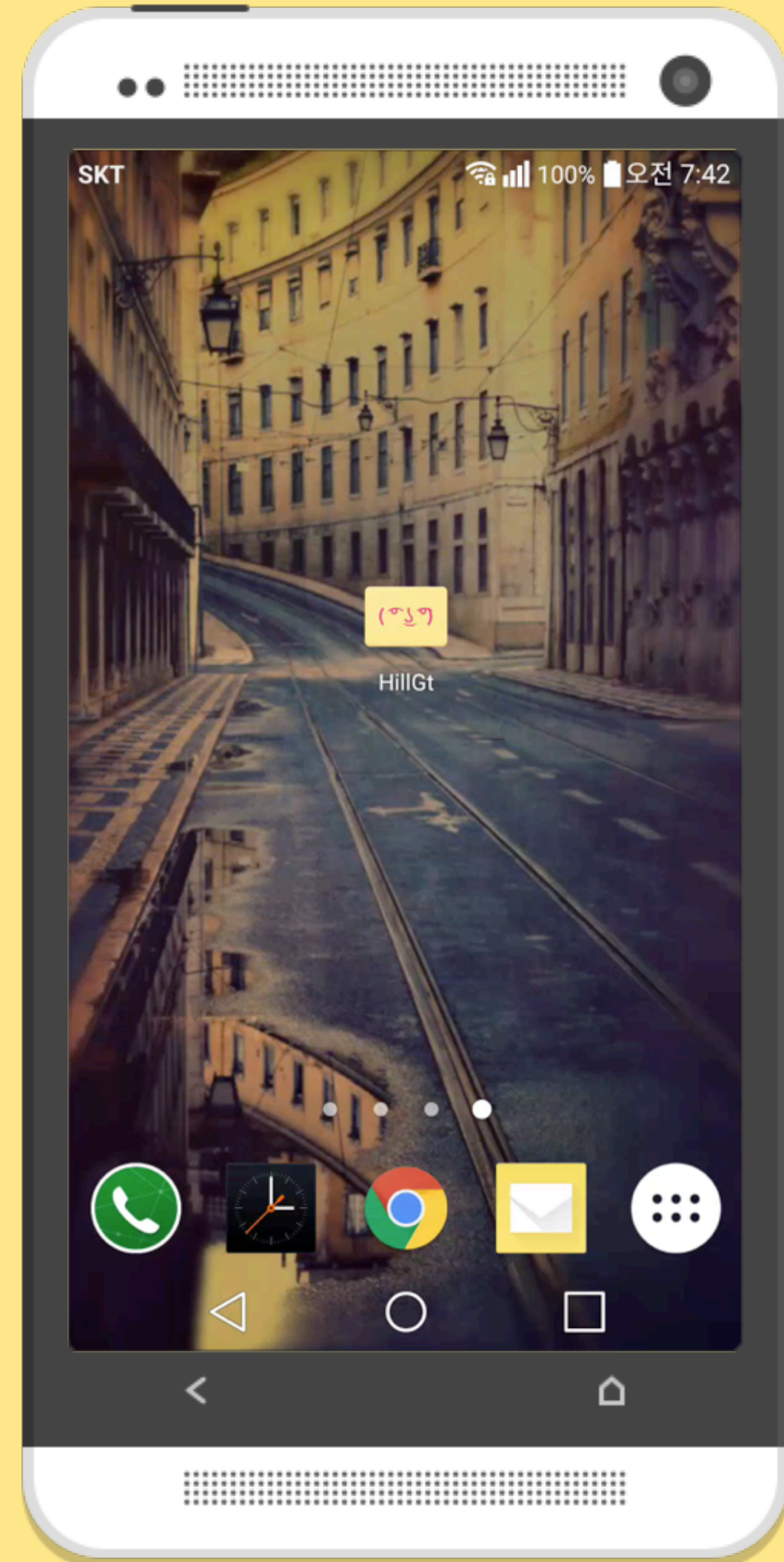
solution

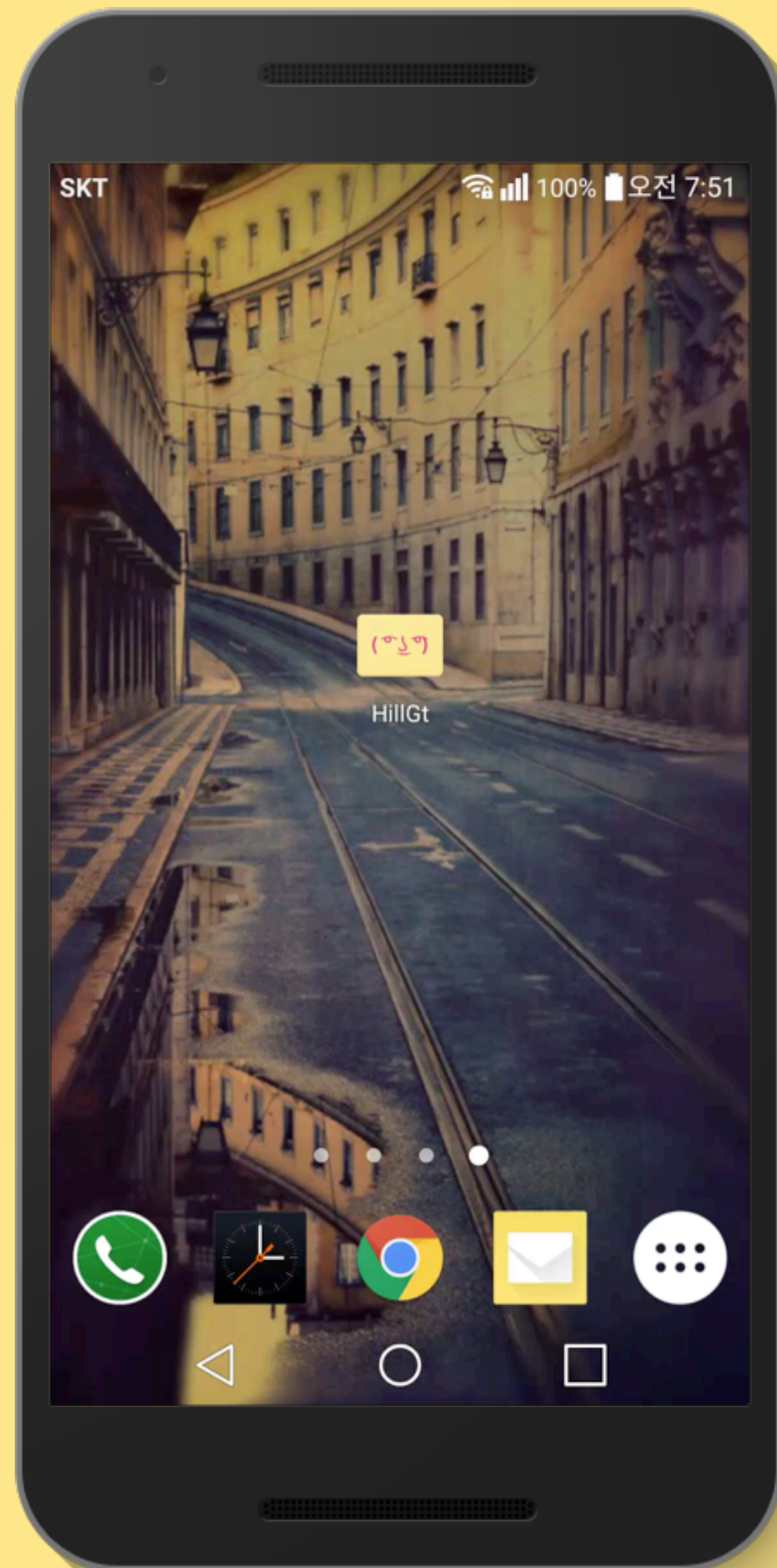
Today, we present you our new product.

product

Functionalities

- 1. Hillgt other users*
- 2. Give response to others' Hillgt*
- 3. See who hillgted me*

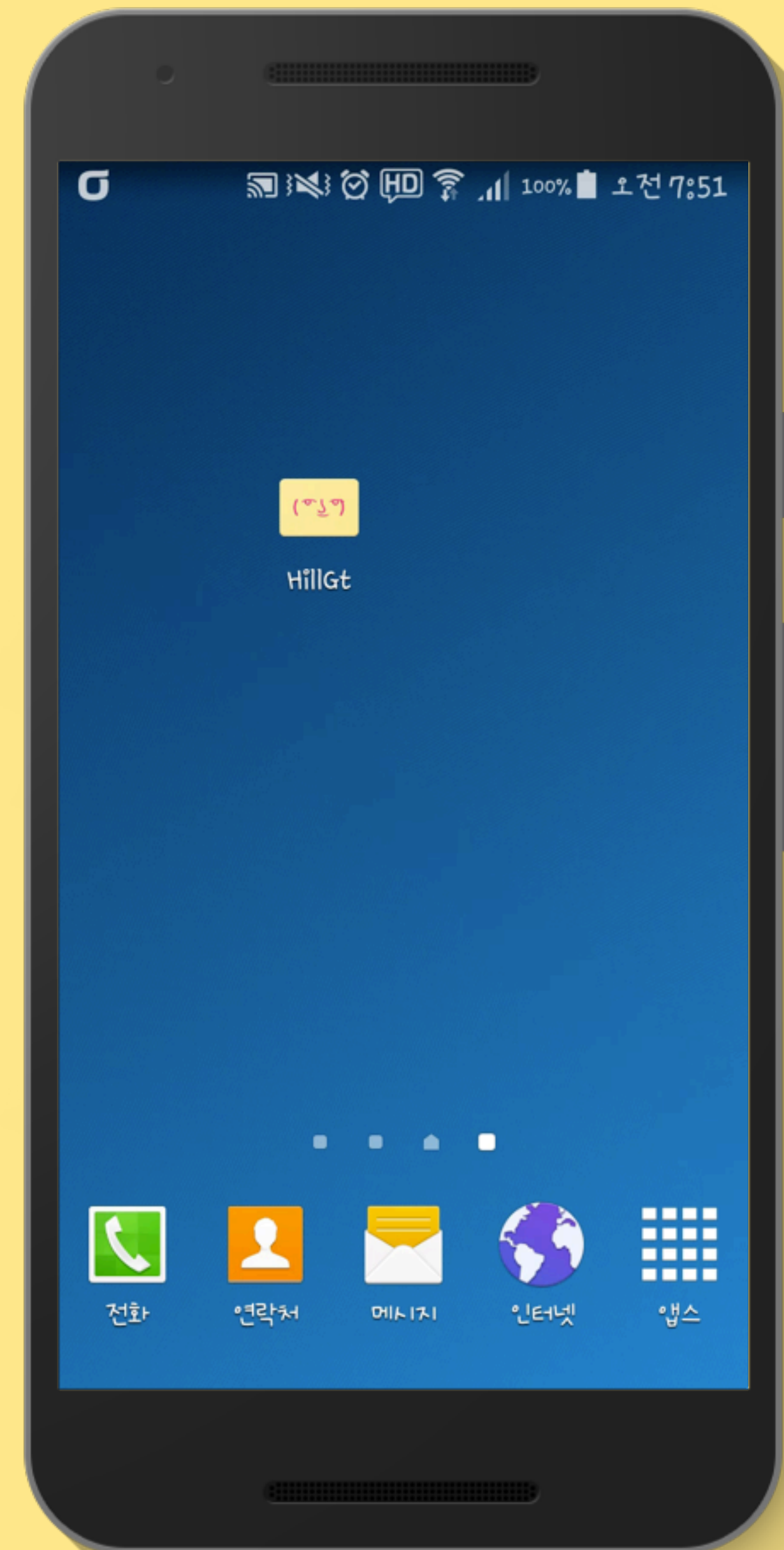




← TAEGYEONG

(오늘)

TRIPLEH →



architecture

3 LAYER

NunchitBab

Nunchi

HillGt

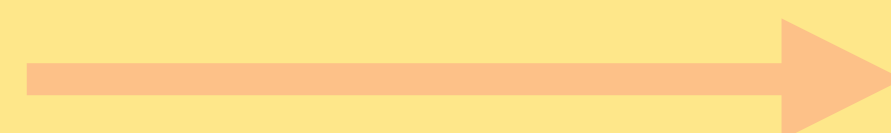
architecture

NunchitBab



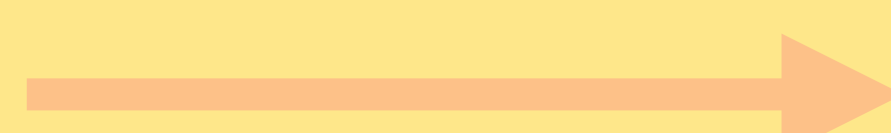
Data Aggregation

Nunchi



Insight Generation

HillGt



Application Logic

architecture

NunchitBab

Nunchi

HillGt

features

screen unlock ringer

battery proximity light

notification accelerometer

architecture

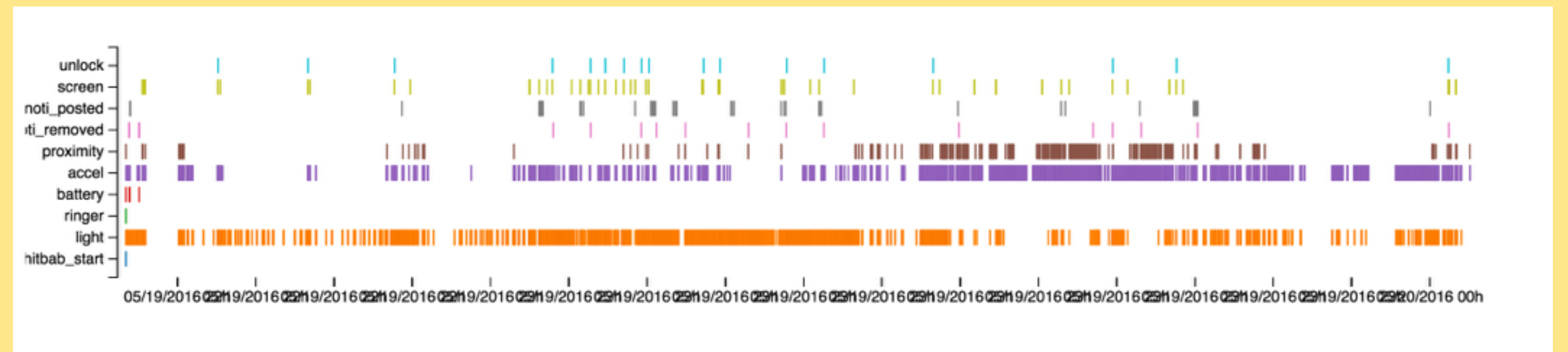
NunchitBab

Nunchi

HillGt

3 People, total 13 day of trace

Large Dataset → 1781989 rows



architecture

NunchitBab

Nunchi

HillGt

Decision Tree Algorithm



imbalance in training set

Precision: 15 ~ 18 %

Recall: 50 ~ 56 %

REAL PROBLEM

architecture

NunchitBab

Nunchi

HillGt

Tried other algorithms.... but...

Decision Tree + Intuition

architecture

NunchitBab

Nunchi

HillGt

NunchitBab Service

Nunchi Service



thanks SM

if you have any questions, send email to:

chemidong@kaist.ac.kr

danny003@kaist.ac.kr

youngjae.chang@kaist.ac.kr

june 13, 2016