

# Investigating the Decline in User Engagement

## Understanding the Product

Yammer is an enterprise collaboration platform enabling coworkers to share documents, updates, and ideas by posting within group forums.

## Defining the Metric - User Engagement

User engagement refers to any interaction that triggers a server call—such as posting, commenting, or liking. Each chart data point shows users with at least one such action at the week's start.

## Time Period Analysis

Data reveals a significant decline commencing in the first week of August, followed by a gradual downward trend in subsequent weeks.

## Segmentation Analysis

- **Holiday Impact:** Investigate whether country specific public holidays coincided with the weeks exhibiting decreased engagement.
- **Device Usage:** Analyze engagement metrics across different devices—mobile phones, tablets, and desktops—to determine if the decline is platform-specific.

## Funnel Analysis:

Identifying particular stages with notable reductions.

1. Sign-in into the web/mobile app.
  - Entry point for users
2. Home/Landing Page
  - Upon login, users are directed to the home page.
3. Viewing Inbox

- Users often check their inbox for messages and notifications
- 4. Sending messages
  - Users may send reply or start a new conversation
- 5. Conducting Search
  - Users may search for specific content, groups, or individuals
- 6. Executing Search queries
  - system processing the search input and displaying results.
- 7. Liking a page or post
  - Engaging with the content

### Email Engagement Metric

- we also observe weekly digest emails, email opens and email click-throughs

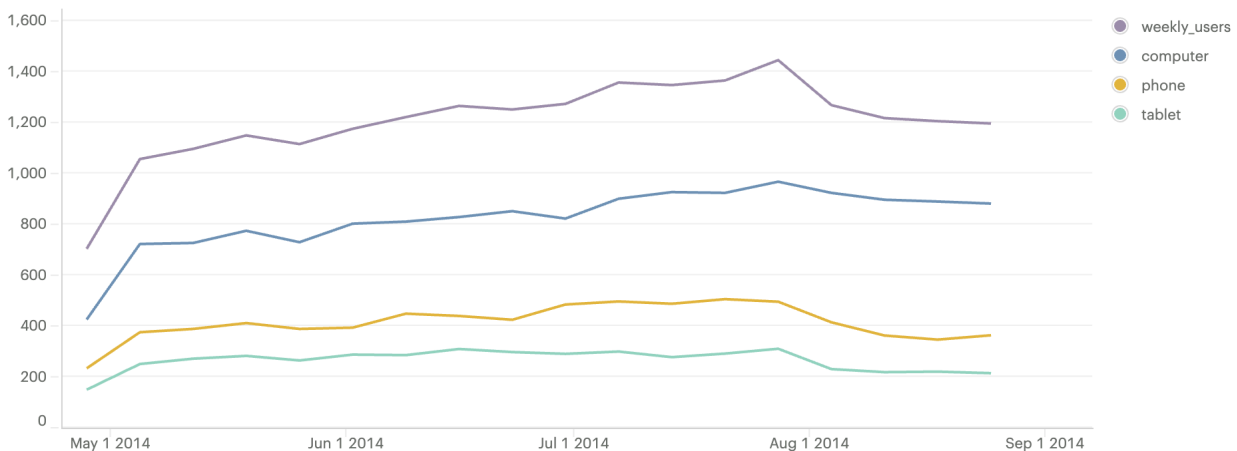
### External Factors

- we examine external factors like Marketing, Bad Press.

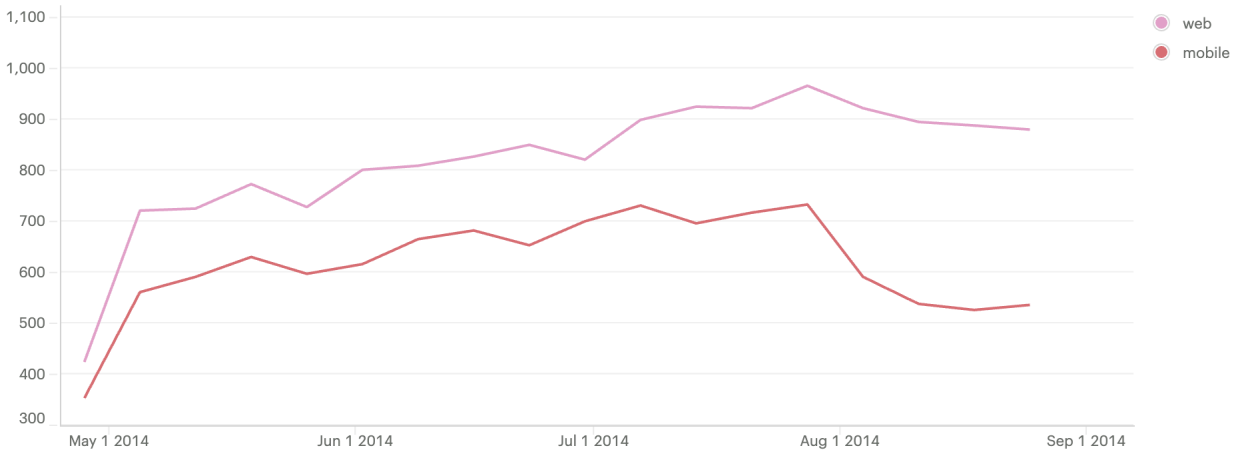
### Validating through Data

1. **No major holidays** during the time frame in which drop happened - so for now, we can rule it out

#### 2. weekly user engagement in different devices

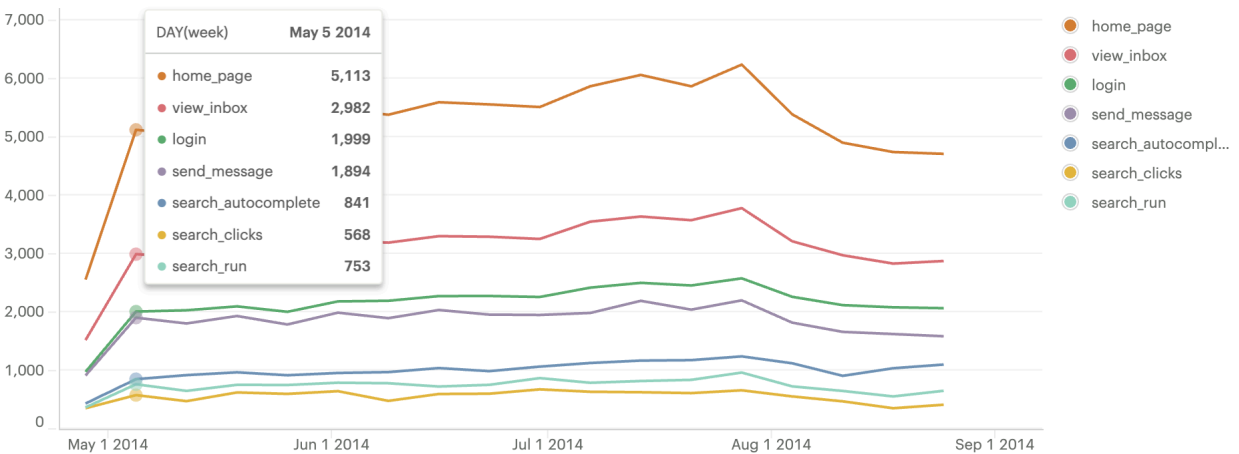


- There is a drop in user engagement in mobile users.
- Let's Plot a chart in user engagement in mobile vs web

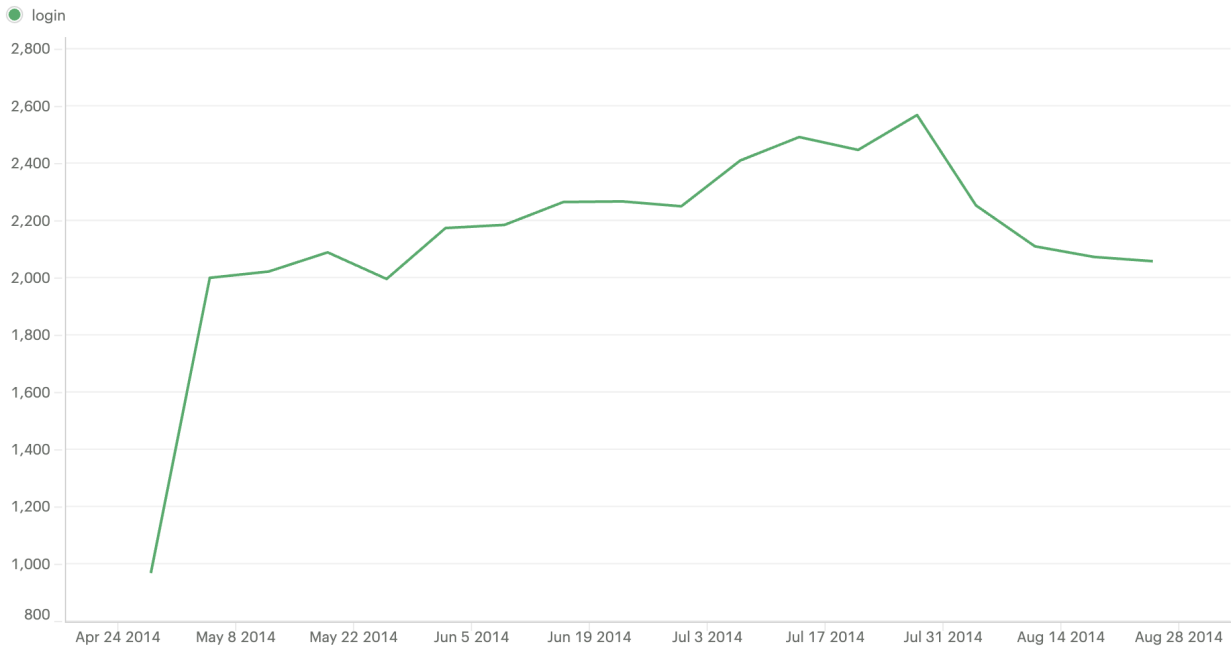


- From above chart, there is a sharp decline in mobile usage
- Diving deep, calculating drop % of devices
  - web ~ 7.3% drop
  - mobile ~ 26.7% drop
- Indicating there is an issue with the mobile app.

### 3.1 Funnel Analysis

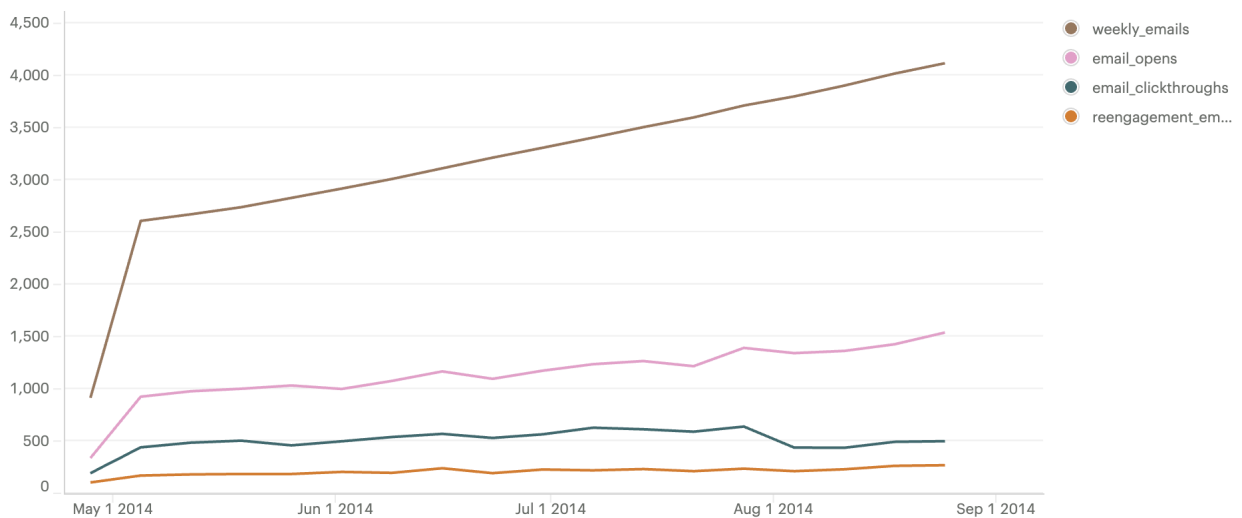


- From above chart, There has been a decline in all the stages. Lets look at the login stage now



- If users cannot login then engagement in other stages too drop as login is the first stage of user journey.

**3.2 Weekly Email Engagement.** we observe weekly digest emails and email opens are rising, but email click-throughs have actually dropped. This may indicate an issue with the links in the emails or even user fatigue.



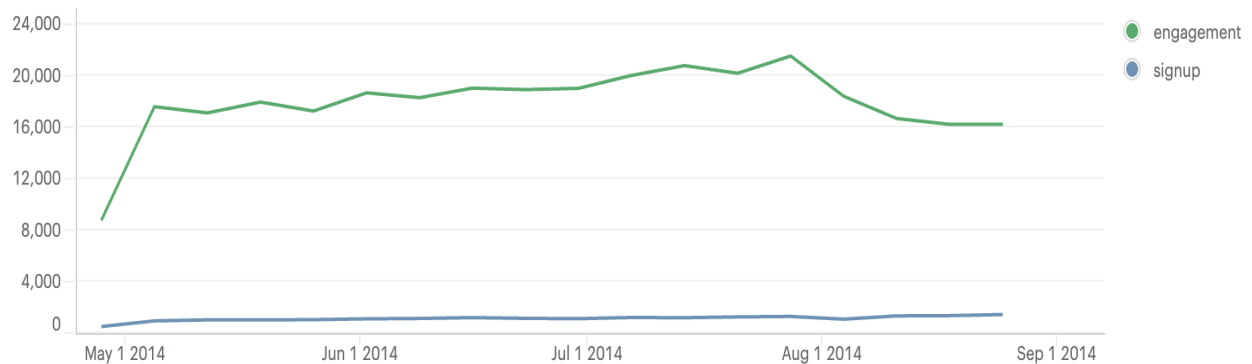
#### 4. External Factors

##### - Marketing

Any big thing happened in the marketing team ?

##### - Bad Press

Has Yammer been in news ? resulting in a change in User Behavior and leaving the product



Generally, drop due to External factors like marketing, bad press results in a drop in sign-ups as users tend to disengage from the product. This seems not to be the reason here.