



Google

Developers



Find the next big thing with the YouTube Analytics API

Ted Hamilton and Jeremy Walker (YouTube)
Kris Schroder (Next Big Sound)

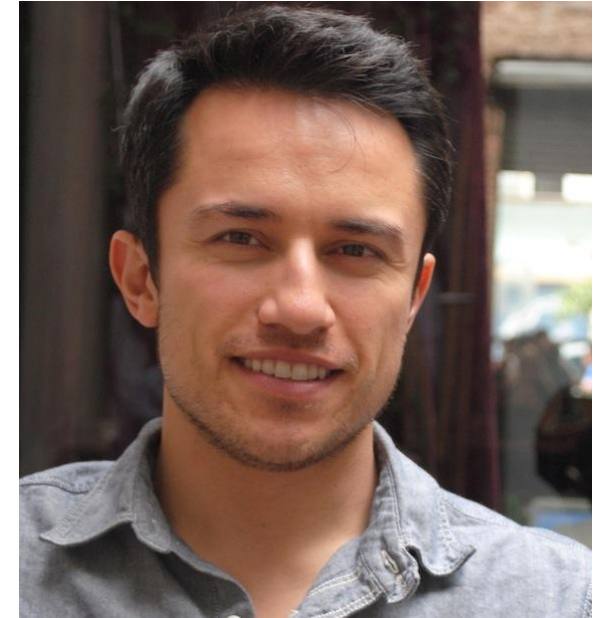
Presenters



Ted Hamilton
YouTube Analytics API
Product Manager



Jeremy Walker
YouTube
Developer Advocate



Kris Schroder
Next Big Sound
Engineer



Agenda

- YouTube Analytics API
- Digging into the details
- Showcase: Next Big Sound
- The future

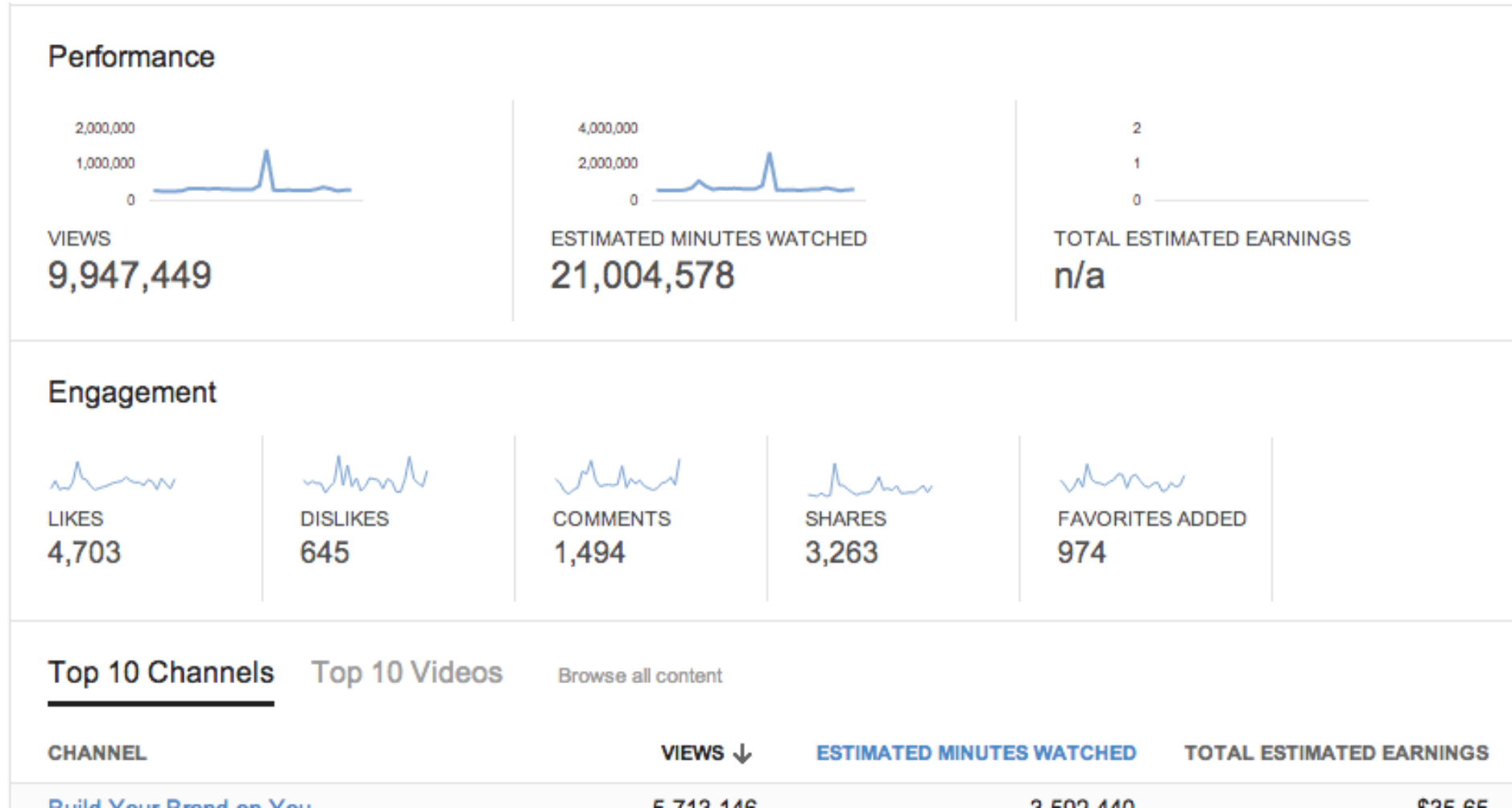


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Why YouTube Analytics matters



YouTube Analytics (analytics.youtube.com)



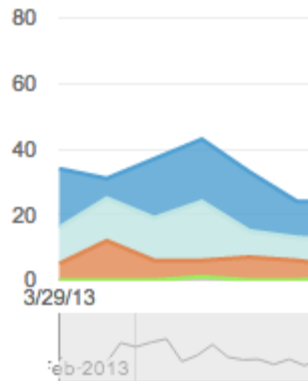
Line chart Map

VIEWS
956

ESTIMATED MINUTES
WATCHED
1,291

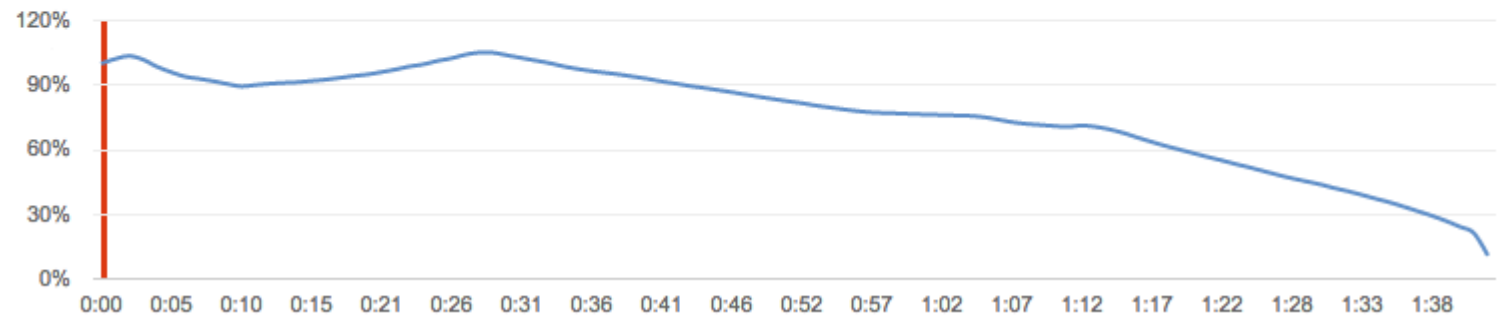
Daily stats ▾

Spain
Average view duration



AVERAGE VIEW DURATION ?
0:59 (57.7%)

Absolute audience retention Relative audience retention



What happens when...

... you want to do more?



YouTube Analytics API



The Big Three

Metrics

Individual measurements of user activity

Views
Estimated minutes watched
\$\$
Subscribers
Average view duration
Likes/dislikes
Shares
Comments
Annotation click through rate...

Dimensions

Common criteria that are used to aggregate data

Date
Geography
Channel
Video
Traffic source
Playback location
Ad Type
Demographic
Annotation...

Filters

Limit response to only include data matching a particular value or set of values

Date
Geography
Content entity



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Digging into the details (Google Developer Channel)

- Country
- Annotations
- Long-form vs. short-form





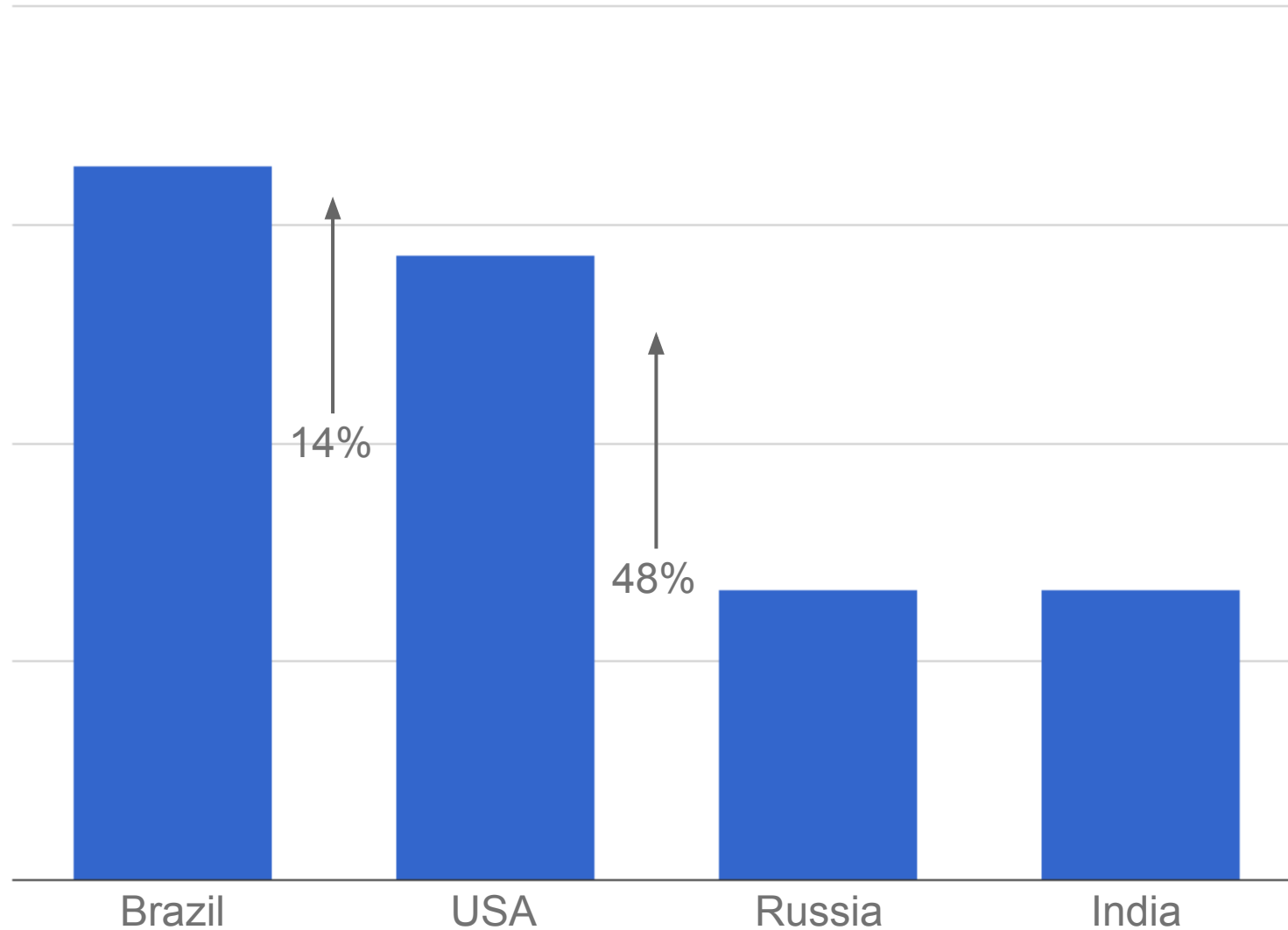
The Embedded YouTube Upload Widget

Eric Lundberg - Software Engineer, YouTube

Jeffrey Posnick - Senior Developer Programs Engineer, YouTube



Country Insight - Views



Country Insight - Annotation Click-through

1. Brazil

2. Russia

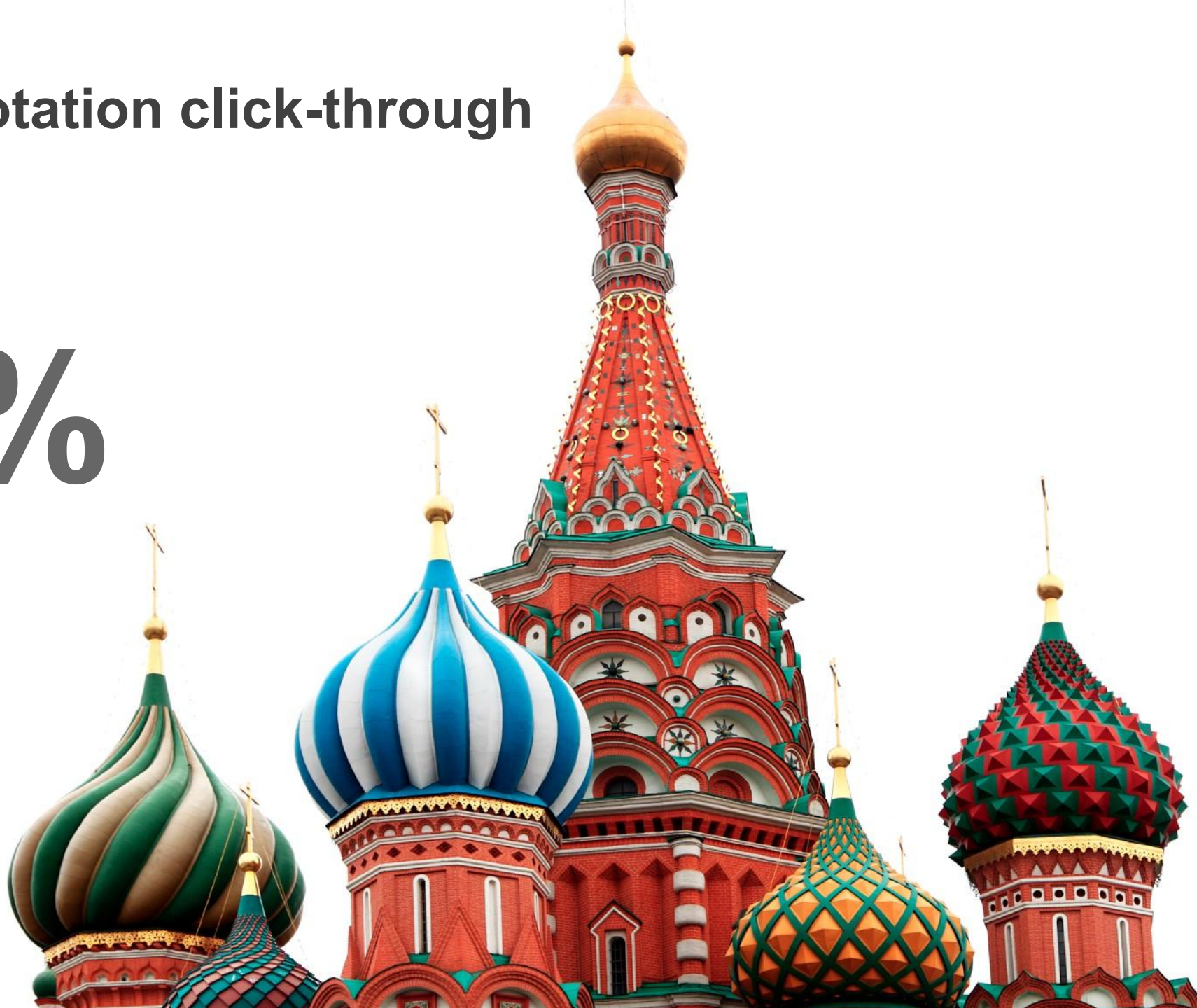
3. USA

4. India



Russia - annotation click-through

↑ 27%

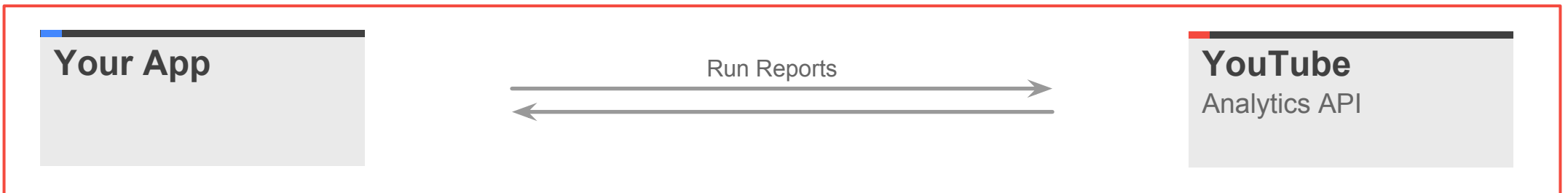
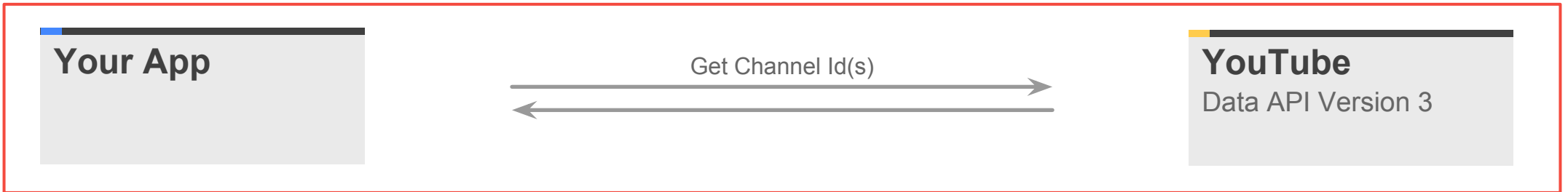
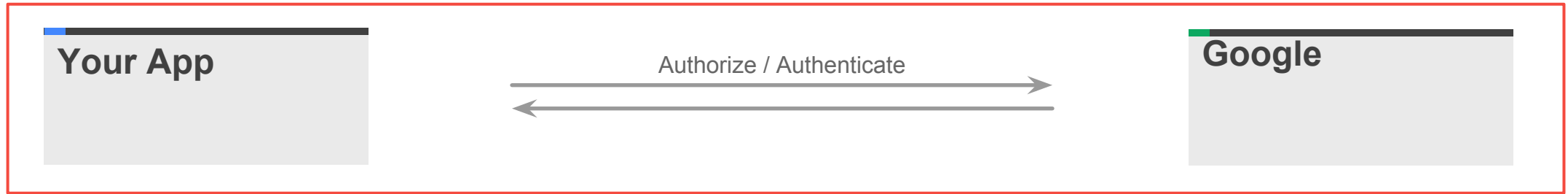


↑ 55%




Brazil
annotation click-through

How do I run a report?



API Explorer

Authorize requests using OAuth 2.0: OFF 

ids

Identifies the YouTube channel or content owner for which you are retrieving YouTube Analytics data. - To request data for a YouTube user, set the ids parameter value to channel==CHANNEL_ID, where CHANNEL_ID specifies the unique YouTube channel ID. - To request data for a YouTube CMS content owner, set the ids parameter value to contentOwner==OWNER_NAME, where OWNER_NAME is the CMS name of the content owner. (string)

start-date

The start date for fetching YouTube Analytics data. The value should be in YYYY-MM-DD format. (string)

end-date

The end date for fetching YouTube Analytics data. The value should be in YYYY-MM-DD format. (string)

metrics

A comma-separated list of YouTube Analytics metrics, such as views or likes,dislikes. See the Available Reports document for a list of the reports that you can retrieve and the metrics available in each report, and see the Metrics document for definitions of those metrics. (string)

dimensions

A comma-separated list of YouTube Analytics dimensions, such as views or ageGroup,gender. See the Available Reports document for a list of the reports that you can retrieve and the dimensions used for those reports. Also see the Dimensions document for definitions of those dimensions. (string)

Generate views and click-through report

```
ResultSet results = analytics.reports()
    .query("channel==" + id, // Channel Id (UC_x5XG.....).
        "2012-01-01", // Start date.
        "2012-02-01", // End date.
        "views,annotationClickThroughRate")// Metrics.
    .setDimensions("country")
    .setFilter("video==sq.....")
    .setSort("-views")
    .execute();
```

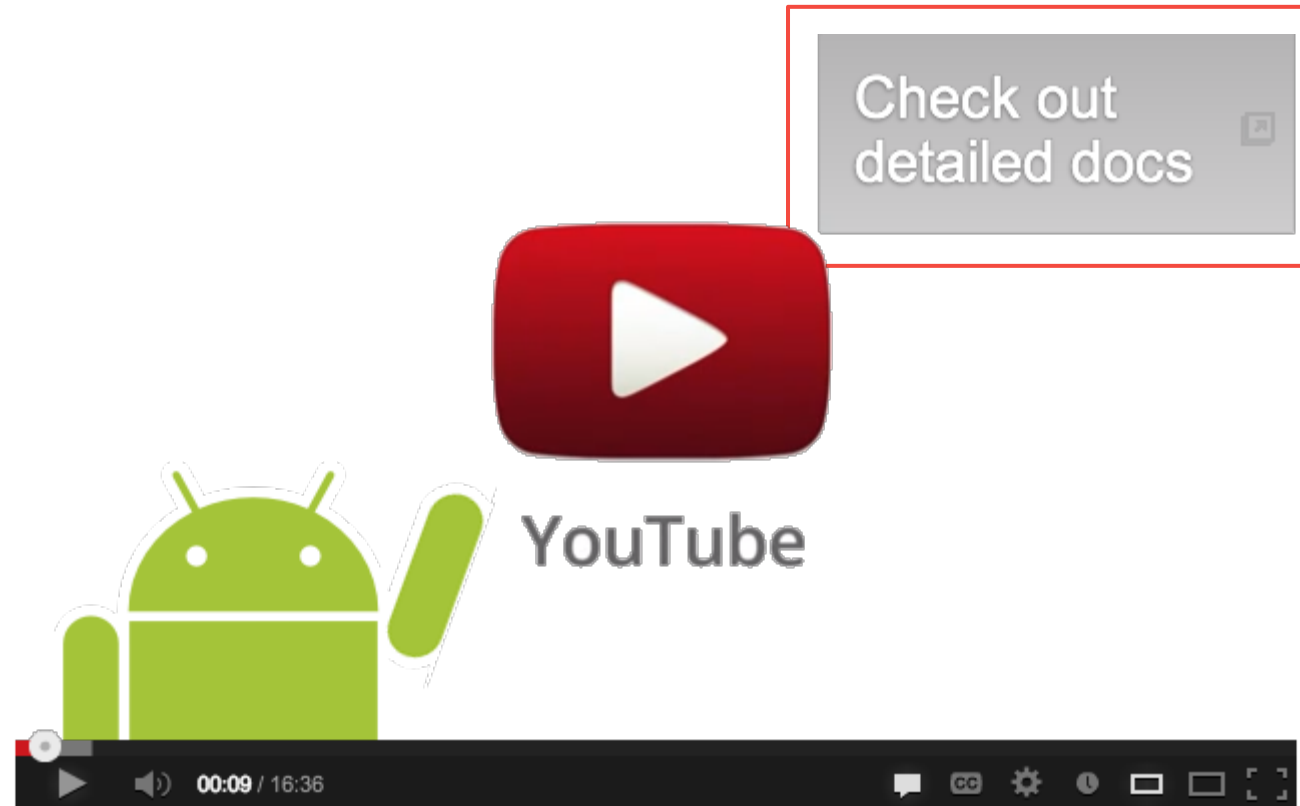
Java



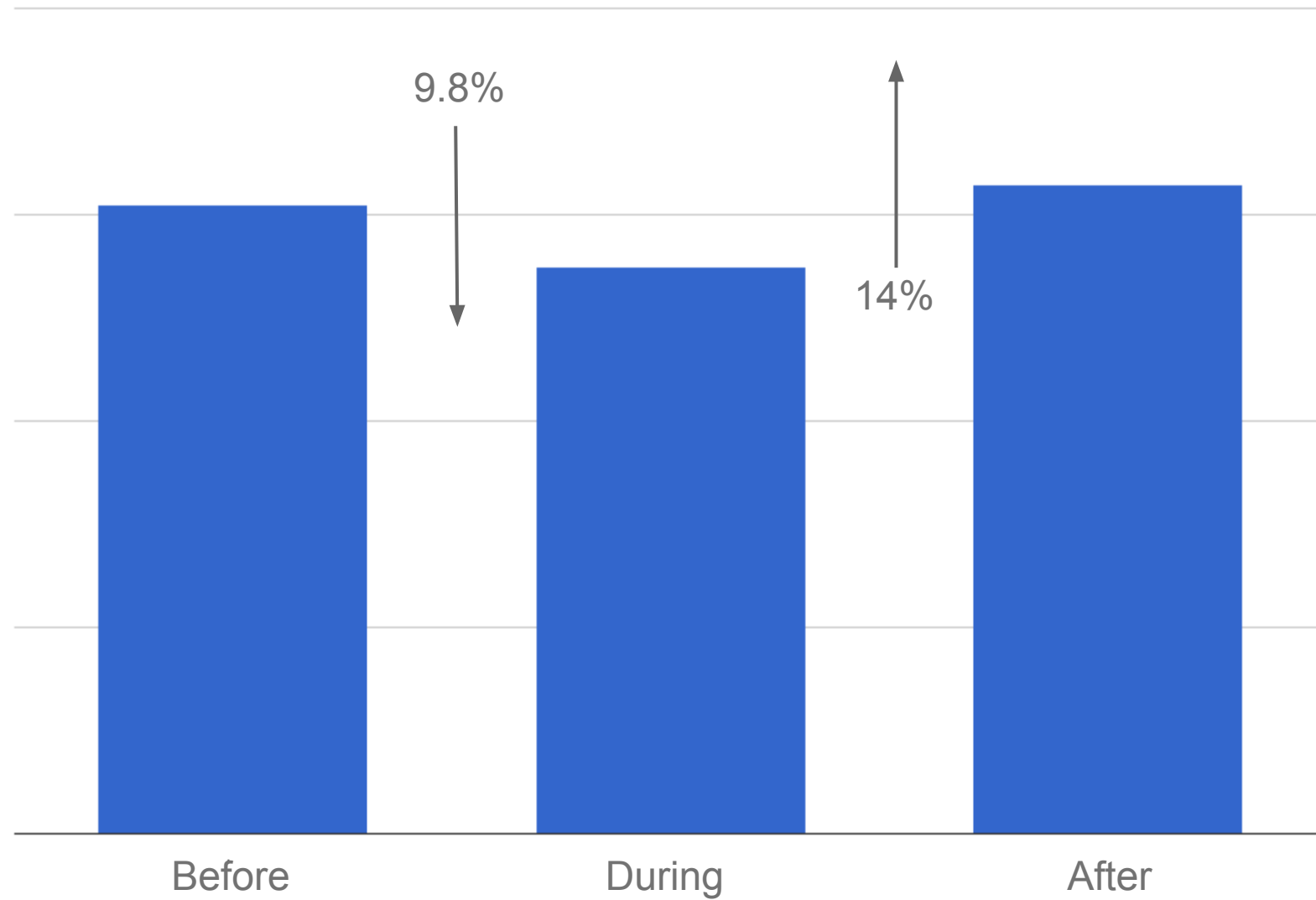
Annotations Insight (what not to do)




Annotations Insight - YouTube Android Player API Video



Annotations Insight - Minutes Watched



API Explorer

Authorize requests using OAuth 2.0: OFF 

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Generate estimated minutes watched report

```
ResultTable results = analytics.reports()  
    .query("channel==" + id,           // Channel Id (UC_x5XG.....).  
          "2013-05-01",               // Start date.  
          "2013-05-08",               // End date.  
          "estimatedMinutesWatched") // Metrics.  
    .setFilter("video==8b.....")  
    .execute();
```

Java



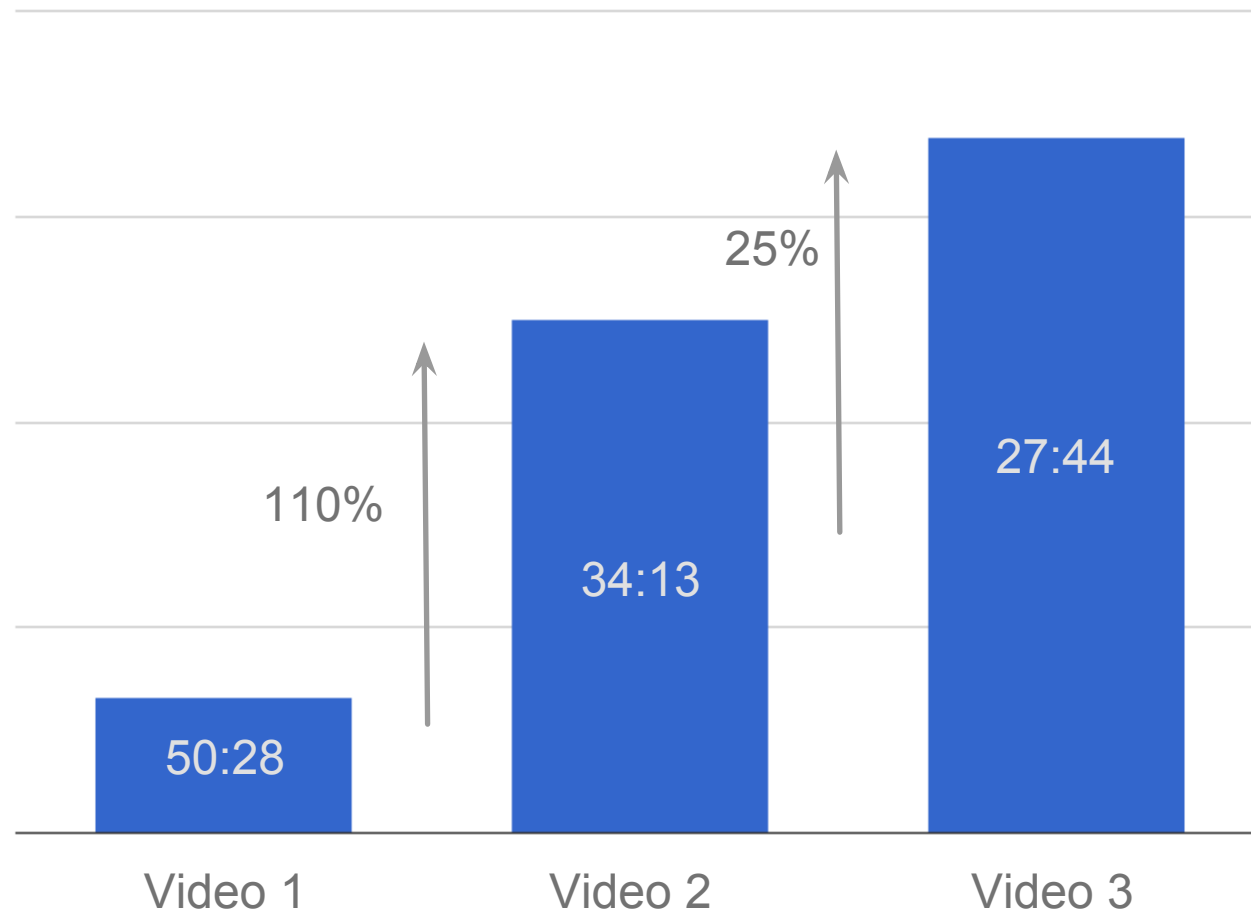
Long-form vs. Short-form Insight



Google
Developers Live



Long-form vs. Short-form Insight - Minutes watched



API Explorer

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Generate estimated minutes watched report

```
ResultTable results = analytics.reports()
    .query("contentOwner==" + username, // CMS username
        "2011-05-05", // Start date.
        "2013-05-05", // End date.
        "estimatedMinutesWatched") // Metrics.
    .setFilter("video==fh.....")
    .execute();
```

Java



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Analytics & Insights for the Music Industry

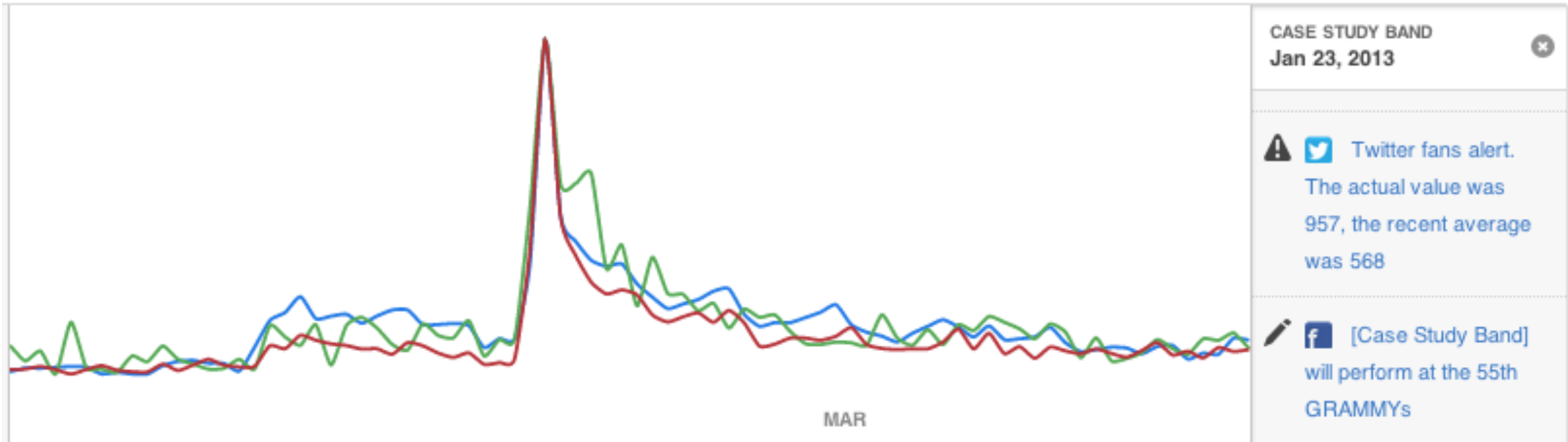
Next Big Sound tracks billions of social signals to help record labels, artists, and band managers make better decisions.



Case Study

- . Established Indie Rock Act
- . Television Appearance: Awards Show





The current benchmark is **Top Artists**.

[Manage Lists](#) [Hide](#)

Metrics	Oct 17 - Jan 6	Jan 7 - Mar 29	% Change	Benchmark	Total
<input checked="" type="checkbox"/> YouTube Analytics Video Views	909.7K	13.6M	1393%	-	-
<input checked="" type="checkbox"/> YouTube Analytics Comments	744	9.9K	1237%	-	-
<input checked="" type="checkbox"/> YouTube Analytics Likes	5.6K	79.5K	1324%	-	-



“Think Moneyball, but for music.”

Forbes

<http://onforb.es/X3trPH>











Why YouTube Analytics API









- YouTube
 - Fans: new ways to connect
 - Artists: new ways to break artist
 - Artists: revenue stream
 - Labels: Find and develop talent
- YouTube Analytics adds granularity:
 - Geographic insight
 - Demographics
 - Unique views
 - Fan Engagement
- Comparison to similar artists
- Cross-network comparison





Data Transforms Industries

Social & Streaming

-  YouTube
-  YouTube Analytics
-  Facebook
-  Facebook Insights
-  HypeMachine
-  Instagram
-  Last.fm
-  MySpace

-  Pandora
-  Rdio
-  ReverbNation
-  SoundCloud
-  Spotify
-  Twitter
-  Vevo
-  Vimeo

Sales

-  iTunes
-  Amazon
-  E-commerce/
Omniture

Misc

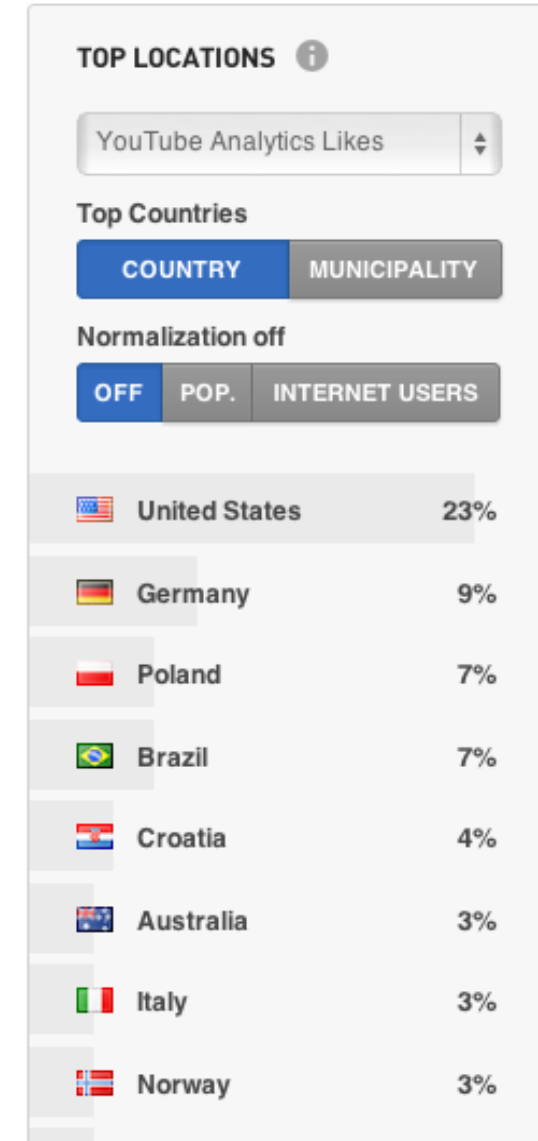
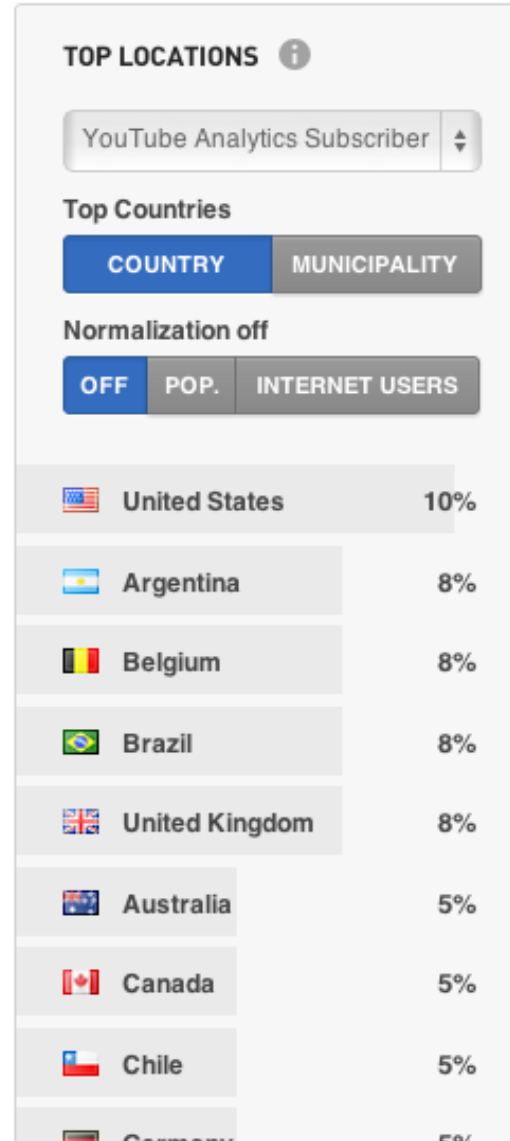
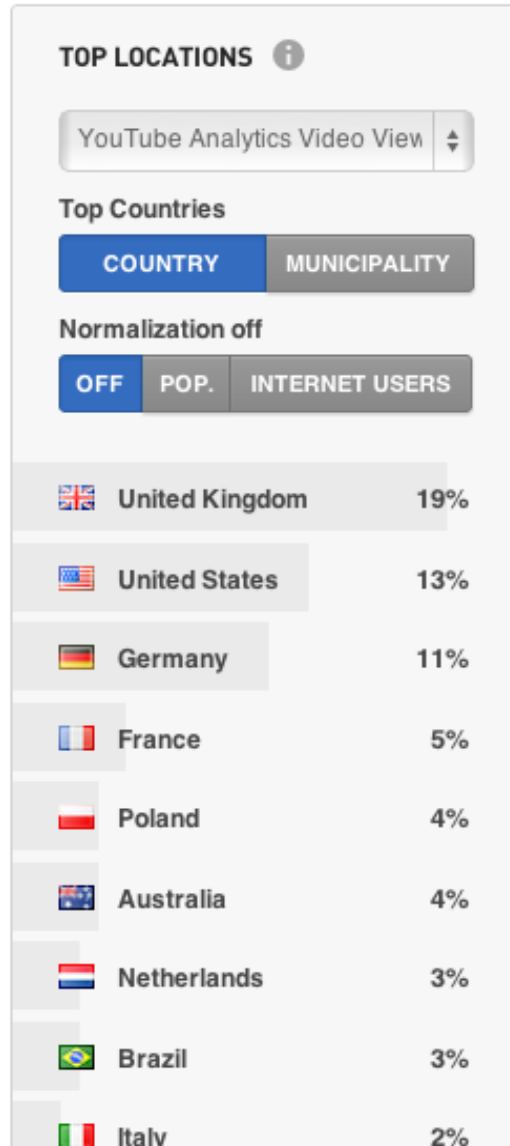
-  Google Analytics
-  Wikipedia

Events

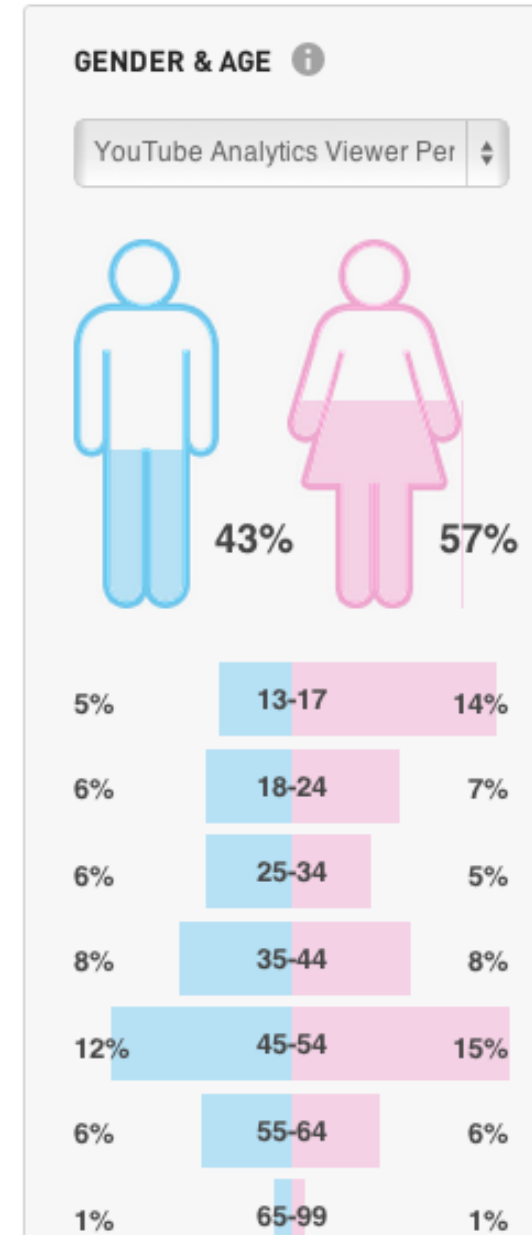
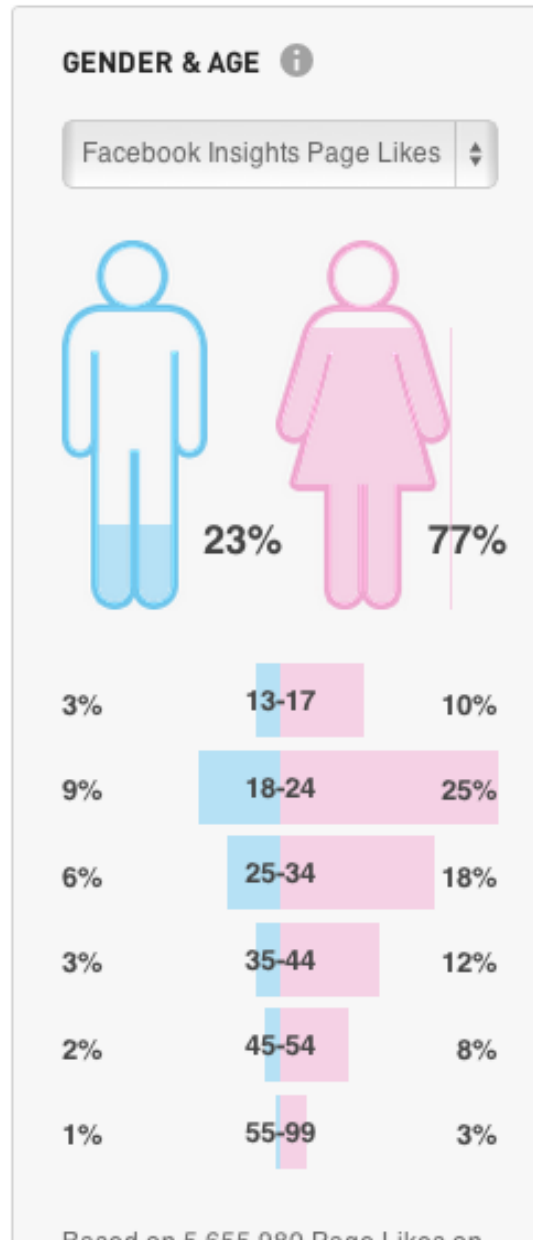
- Performances
- Chart Appearances
- New content
- Posts
- Mentions



Case Study: Geography

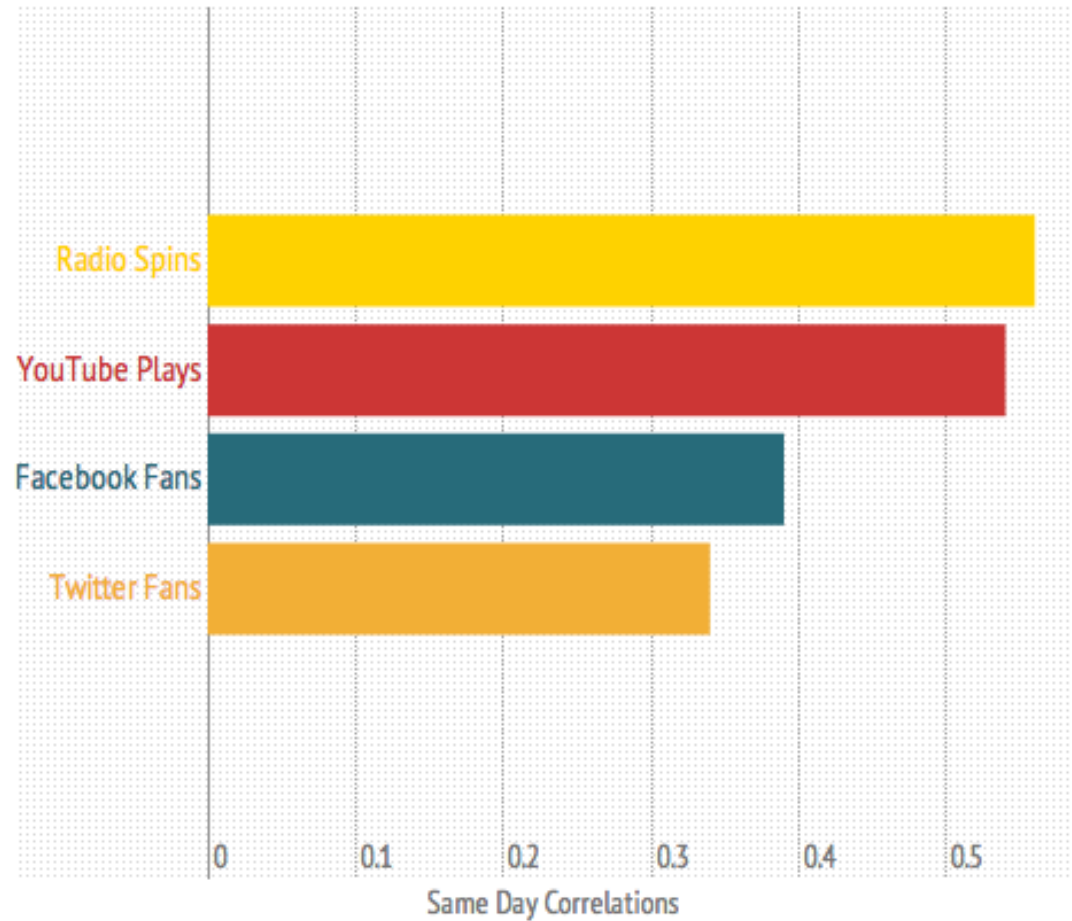


Case Study: Fanbase Demographics Across Platforms



Social Media and Impact on Digital Sales

- Top Four Metrics - Correlations with Track Sales



YouTube API Experiences

- Powerful Data, yet straightforward API
- Handle exceptions - expired auth tokens (401)
- Constructing queries
 - "geo" vs "day" dimension
- API Explorer / Stack Overflow



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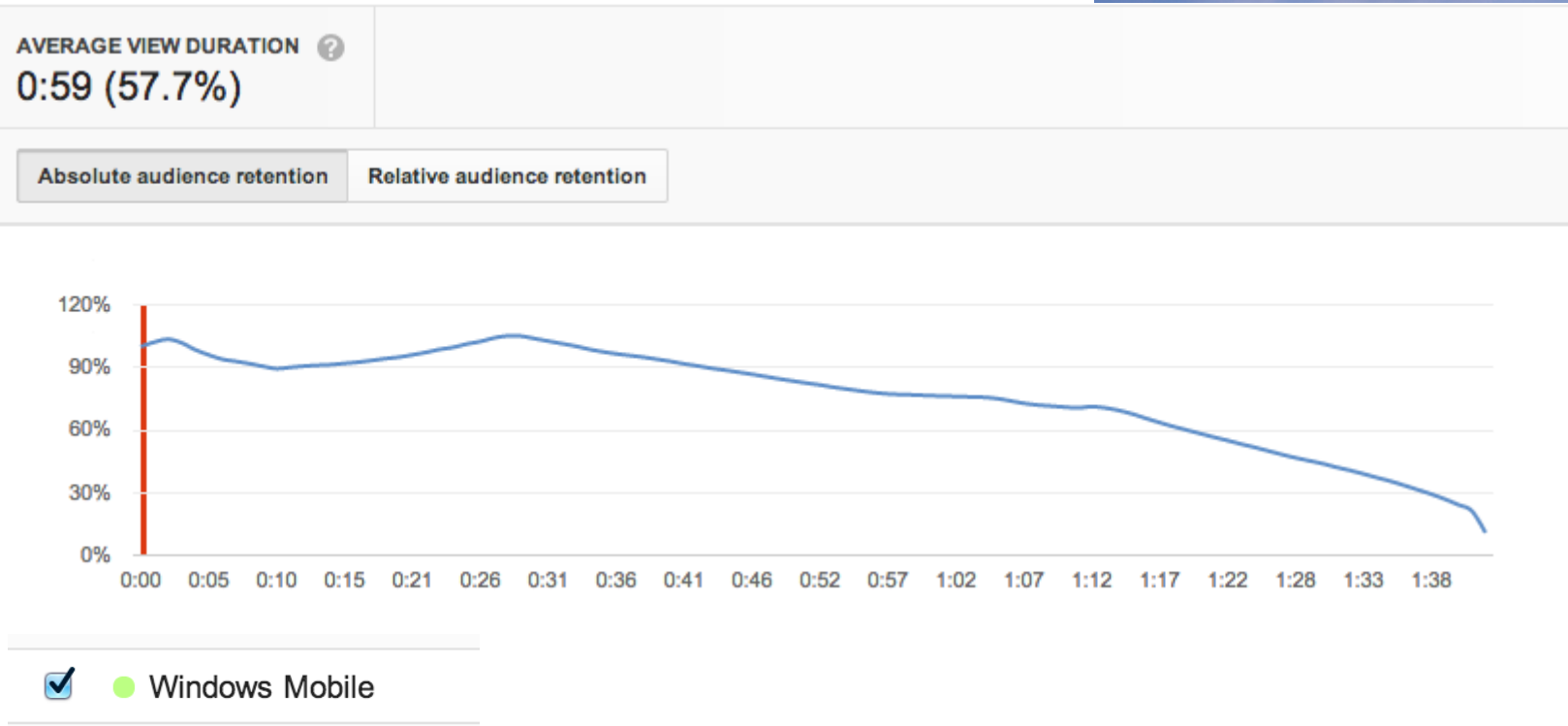
What does the future hold?

Devices

Audience Retention

Bulk data

- DEVICE TYPE
- Computer
- Mobile phone
- Unknown
- Tablet
- Game console
- TV



<Thank You!>

Search "YouTube Analytics API"

google.com/+YouTubeDev





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