GOOGLE ANALYTICS ADVANCED WEB METRICS WITH GOOGLE ANALYTICS

by Daniel Ku (http://kjunine.net)

IF YOU CANNOT MEASURE IT, YOU CANNOT IMPROVE IT.

Lord Kelvin

GETTING STARTED WITH ANALYTICS

- 1. Sign up for an account.
- 2. Set up account properties.
- 3. Set up your tracking code.

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FEATURE UPDATE

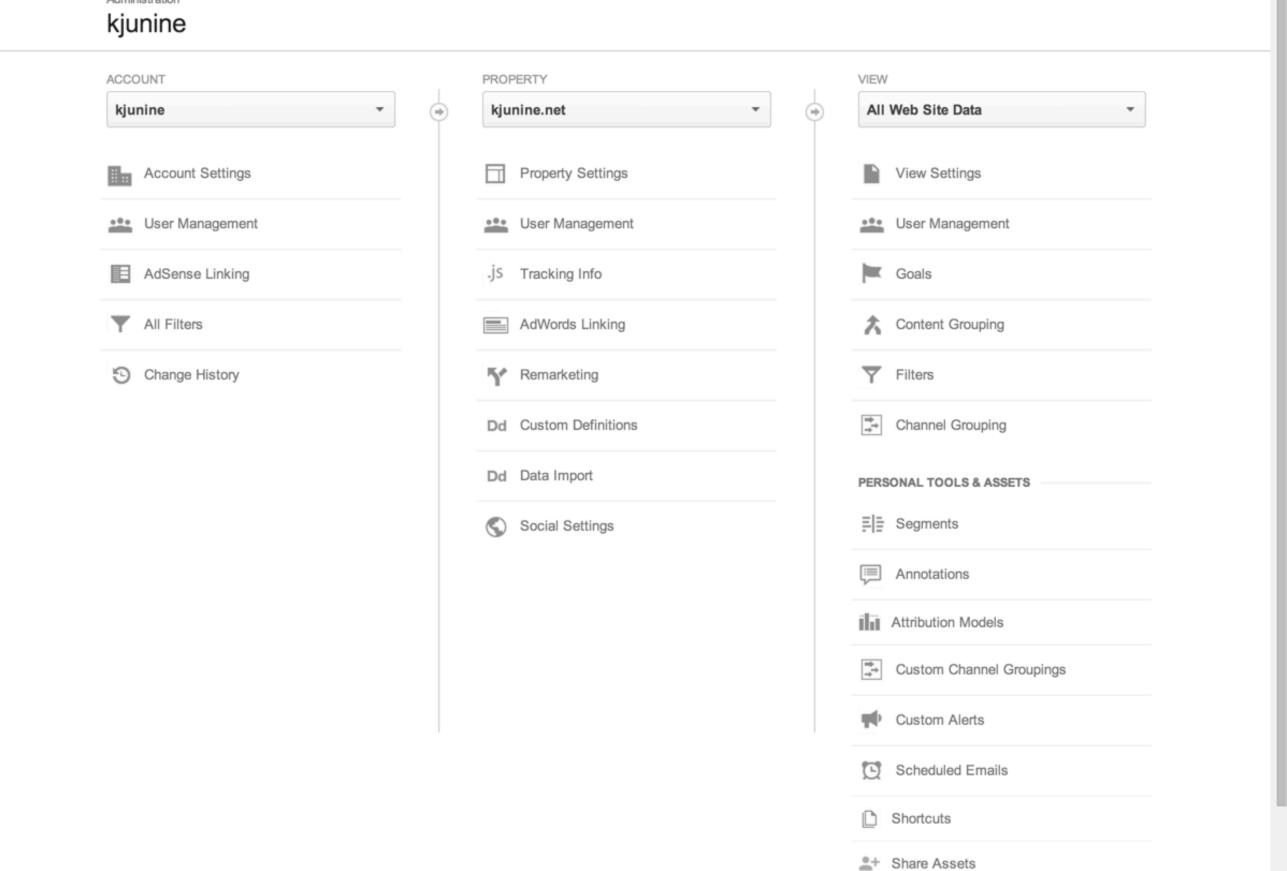
Analytics now includes Change History, a log of account changes. Learn more

Mar 20, 2014 - Apr 19, 2014 -



This table was generated on 4/21/14 at 2:43:58 PM - Refresh Table

Administration



VERSATILE PROGRAMMER PORTFOLIO BLOG ABOUT

Blog

html body script (text)

Wed Feb 12 2014 » 새로운 시작

블로그를 새로 시작하다.

Sun Sep 08 2013 » 마크다운(Markdown)에 대하여

개발자의 필수도구 마크다운에 대하여 알아보자.

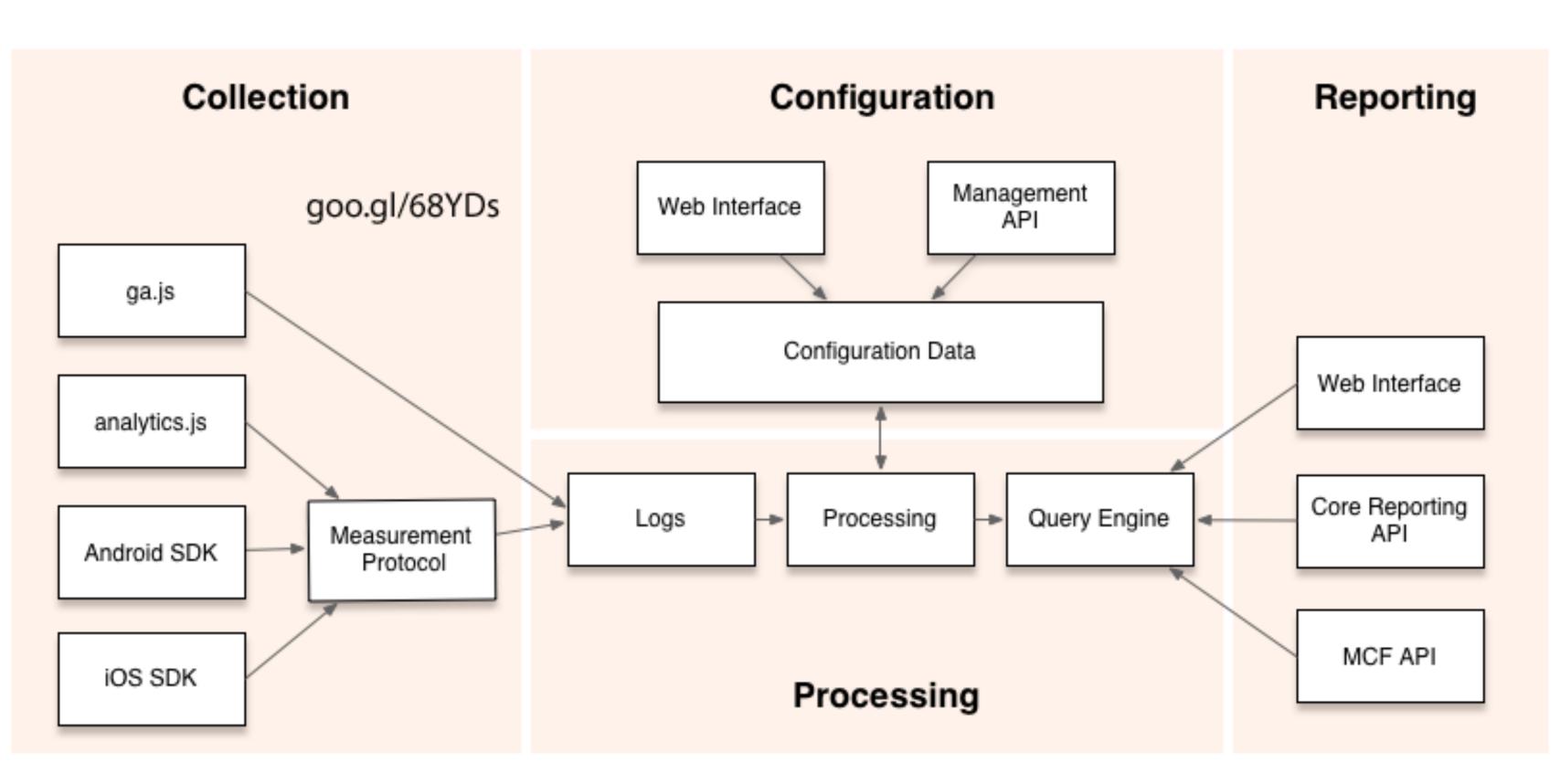
```
Q Elements Network Sources Timeline Profiles Resources Audits Console
    - CUIV CLASS- CONTAINED 2...C/UIV2
    <script async src="//www.google-analytics.com/analytics.js"></script>
    <script defer="defer" src="/dependencies/underscore/underscore-min.js"></script>
    <script defer="defer" src="/dependencies/jquery/jquery.min.js"></script>
    <script defer="defer" src="/dependencies/bootstrap/dist/js/bootstrap.min.js"></script>
    <script defer="defer" src="/dependencies/highlightjs/highlight.pack.js"></script>
    <script defer="defer" src="/scripts/script.js"></script>
   ▼<script>
      (function(i,s,o,g,r,a,m){i['GoogleAnalyticsObject']=r;i[r]=i[r]||function(){
      (i[r].q=i[r].q||[]).push(arguments)},i[r].l=1*new Date();a=s.createElement(o),
      m=s.getElementsByTagName(o)[0];a.async=1;a.src=g;m.parentNode.insertBefore(a,m)
      })(window,document,'script','//www.google-analytics.com/analytics.js','ga');
      ga('create', 'UA-3785948-2', 'auto');
      ga('send', 'pageview');
    </script>
   ▶ <iframe id="rdbIndicator" width="100%" height="270" border="0" src="chrome-extension://oknpjjbmpnndlpmnhmekjpocelpnlfdi/
   indicator.html" style="display: none; border: 0; position: fixed; left: 0; top: 0; z-index: 2147483647">...</iframe>
   </body>
 </html>
```

```
Styles Computed Event Listeners >>
element.style {
html {
                        bootstrap.min.css:7
  font-size: 62.5%;
  -webkit-tap-highlight-color:
     rgba(0,0,0,0);
html {
                        bootstrap.min.css:7
  font-family: sans-serif;
A webkit text size adjust: 100%;
  -ms-text-size-adjust: 100%;
*, *:before, *:after { bootstrap.min.css:7
  -webkit box sizing: border box;
  -moz-box-sizing: border-box;
  box-sizing: border-box:
```

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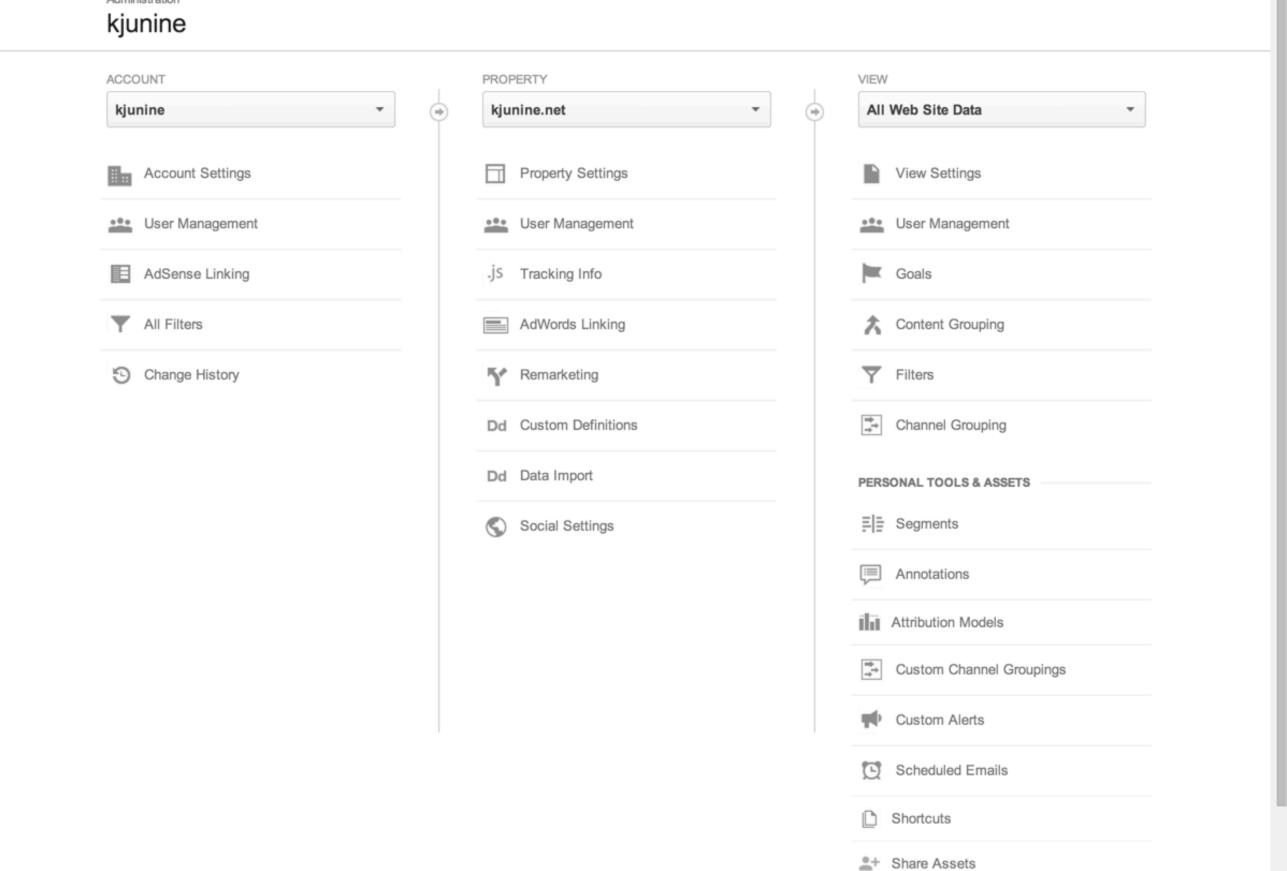
HOW IT WORKS

- Collection
- Processing
- Configuration
 - Reporting



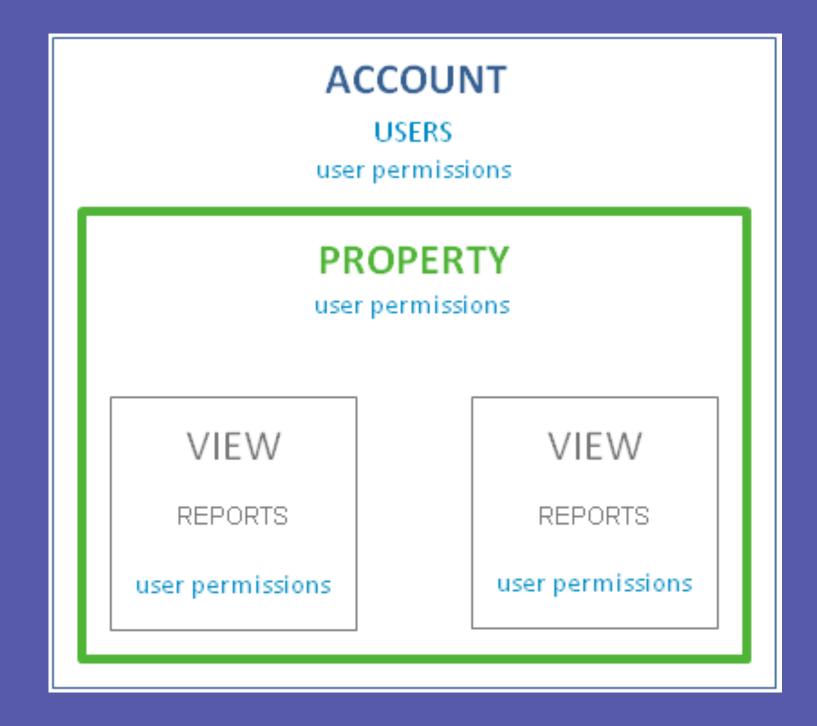
CONFIGURATION

Administration



ACCOUNT STRUCTURE

- Accounts
- Properties
 - Views



WHY MULTIPLE VIEWS? SEGMENTATION

HOW SEGMENT? FILTEN

FILTERS

Home

Reporting

Customization

on Admin

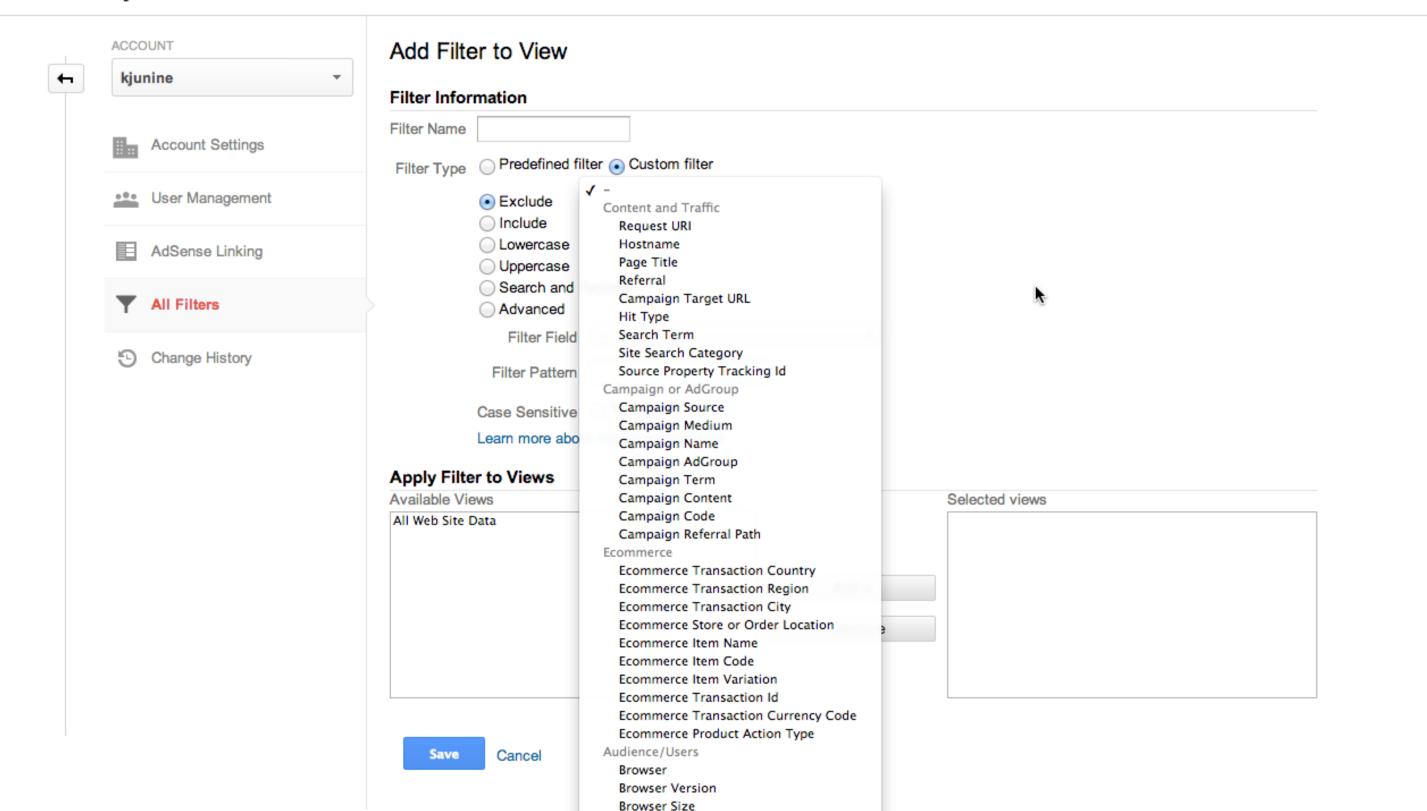


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Administration > Global Filters > Add Filter to View

kjunine



Operating System Platform

MOST COMMONLY USED FILTERS

- · Include only your website's traffic
 - Exclude certain known visitors
- · Segment by geographical location
- Segment by visitor campaign, medium, or referrer source
 - Segment by content

BEST PRACTICE KEEP A VIEW WITHOUT FILTERS

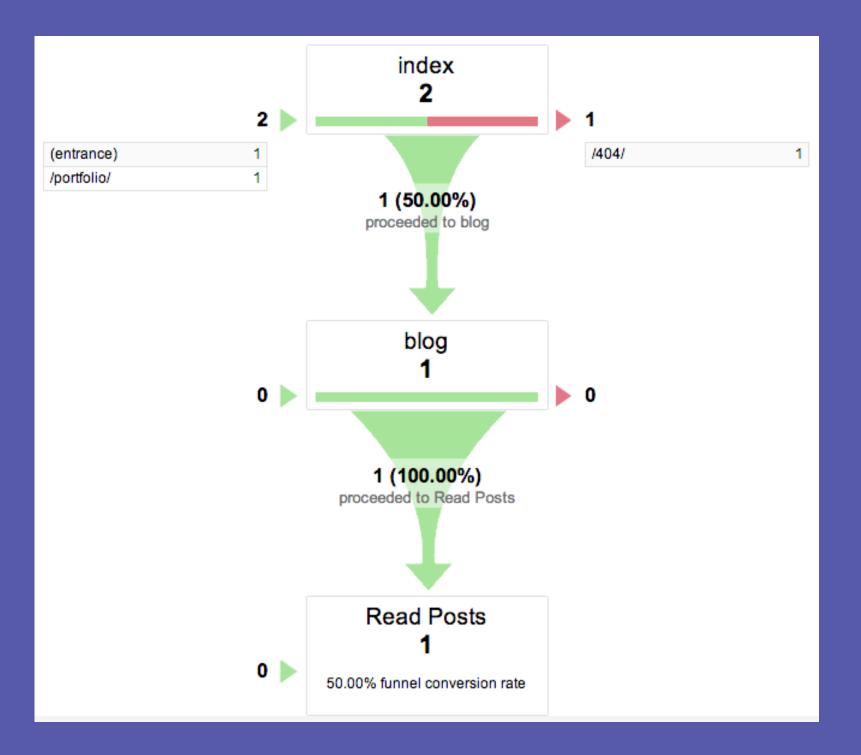
FILTER DEMO

GOALS

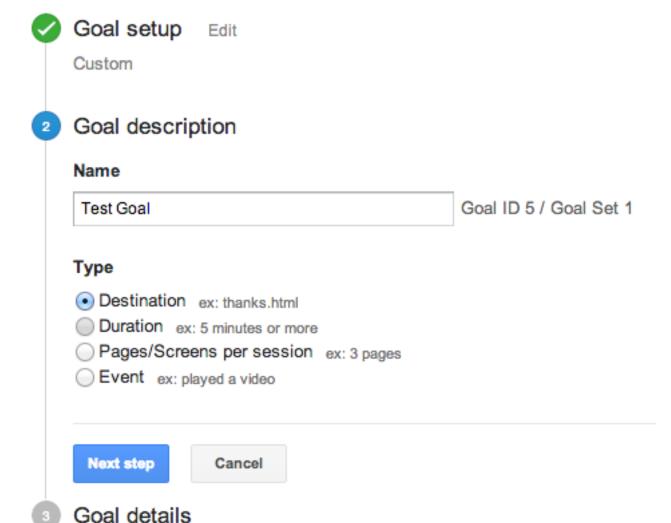
TYPES OF GOAL

- Destination
 - Duration
- · Pages/Screens per session
 - Event

CONVERSION = GOAL CONVERSION



FUNIL



Goal setup Edit Custom Goal description Edit Name: Test Goal Goal type: Destination Goal details Destination Case sensitive ^/download/ Regular expression ▼ For example, use My Screen for an app and /thankyou.html instead of www.example.com/thankyou.html for a web page Value OPTIONAL \$USD On 1 Assign a monetary value to the conversion. Learn more about Goal Values. For a transaction, leave this blank and use Ecommerce tracking and reports to see Revenue. Learn more about Ecommerce Transactions. Funnel OPTIONAL On Use an app screen name string or a web page URL for each step. For example, use My Screen for an app and /thankyou.html instead of www.example.com/thankyou.html for a web page. Required? Step Name Screen/Page ^/\$ Index No Support ^/support/ 3 + Add another Step Verify this Goal See how often this Goal would have converted based on your data from the past 7 days.

Create Goal

Cancel

GOALDEMO

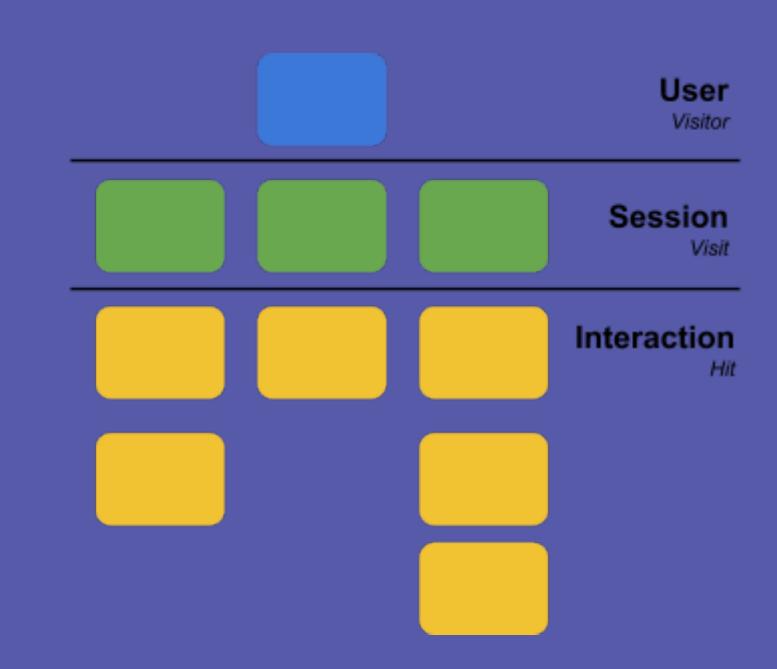
JSER ID AUNIOUE STRING REPRESENTING A USER

associates data from different devices and multiple sessions

COLLECTION

DATA MODEL

- User (Visitor)
- Session (Visit)
- Interaction (Hit)



INTERACTION

- Pageview
 - Event
- Transaction
- Social Interaction
 - · User Timing
 - Exception

EVENT

- Category
 - Action
- · Label (optional)
- · Value (optional, integer)

VIRTUAL PAGEVIEW VIRTUAL PAGEVIEW VS. EVENT?

LIMITS AND QUOTAS PROPERTY SPECIFIC

10 million hits per month per property

LIMITS AND QUOTAS UNIVERSAL ANALYTICS ENABLED

- · 200,000 hits per user per day
- 500 hits per session not including ecommerce (item and event hit types)

This applies to analytics.js, Android/iOS SDK and the Measurement Protocol.

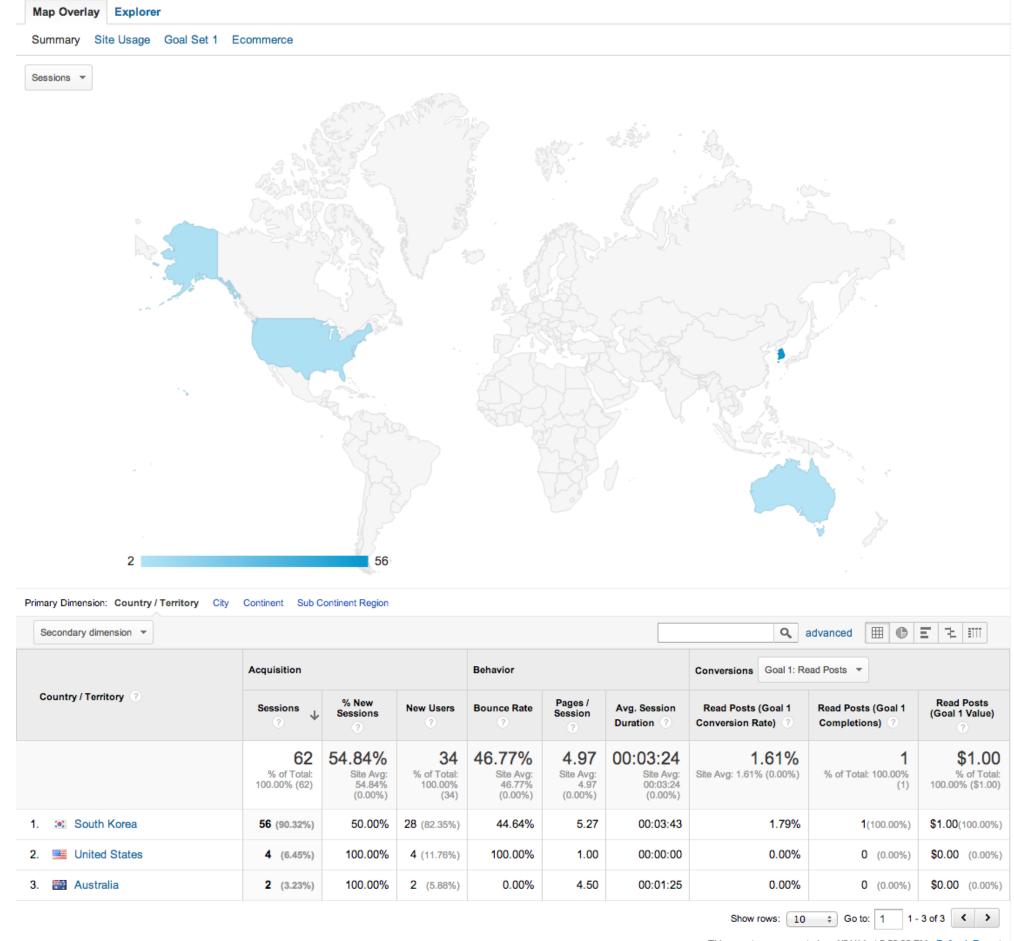
COOKIE USAGE

By default,

- · cookie name: _ga
- · domain: top level
- expiration: 2 years

USE APIS AND SDKS, LATER

REPORTING



DIMENSION AND METRIC

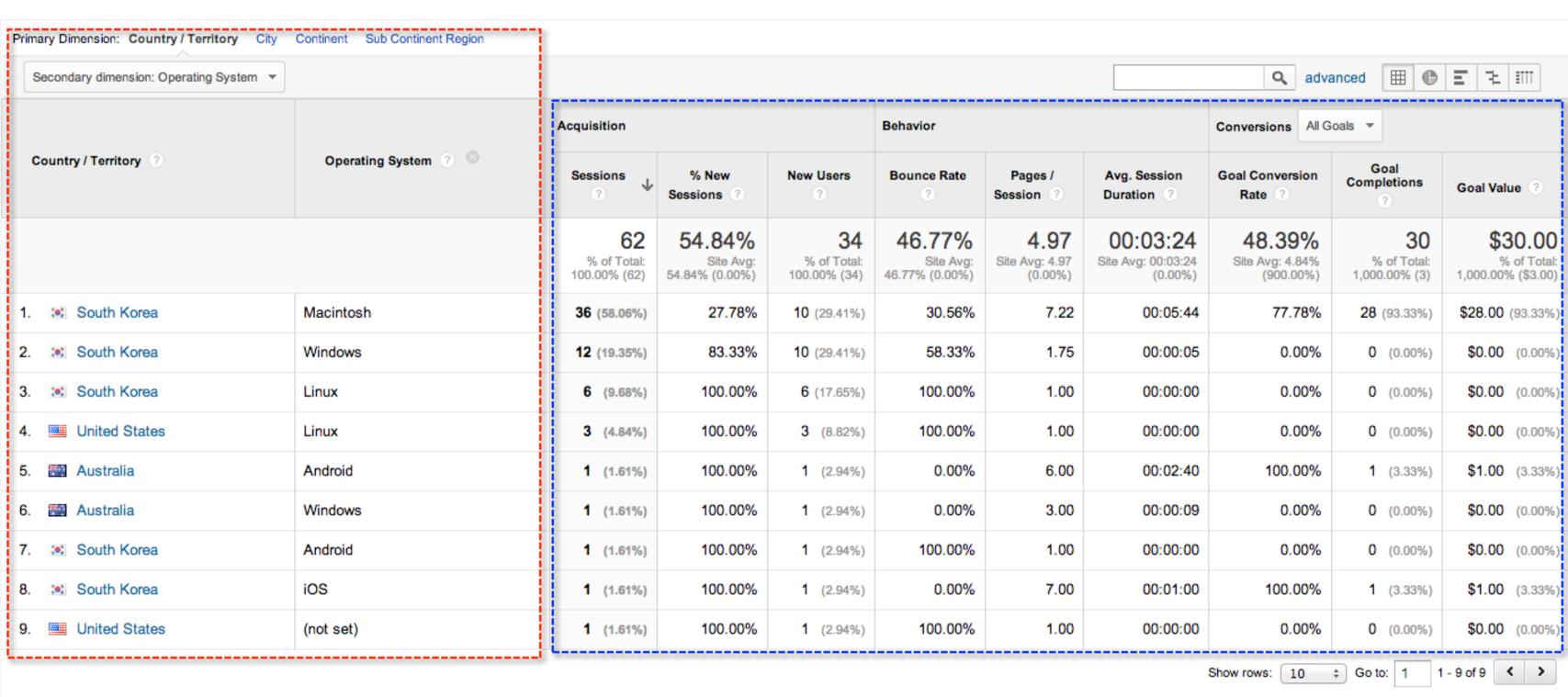
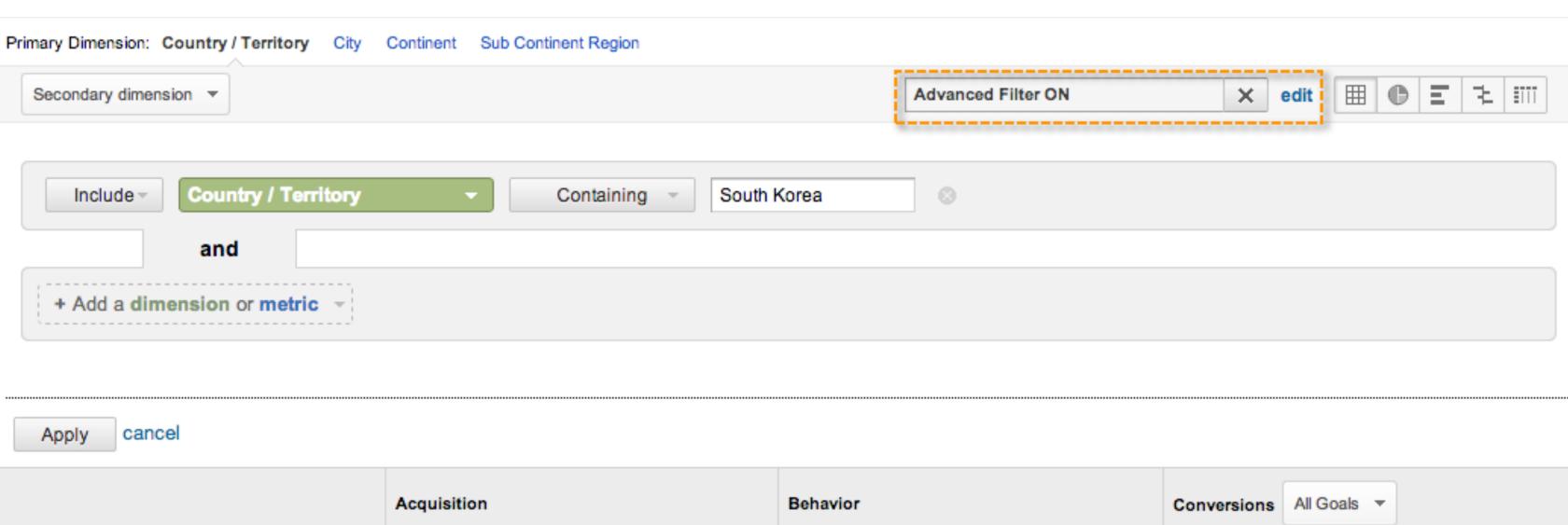
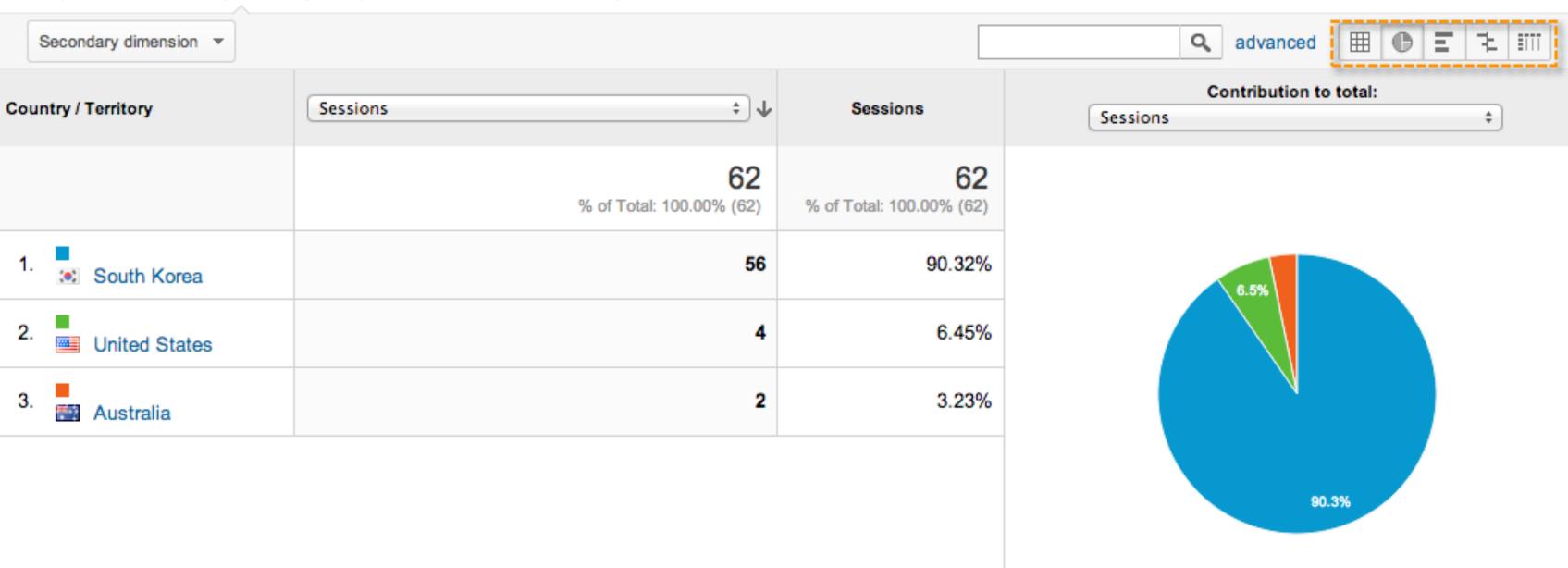


TABLE FILTER AND VIEW OPTIONS

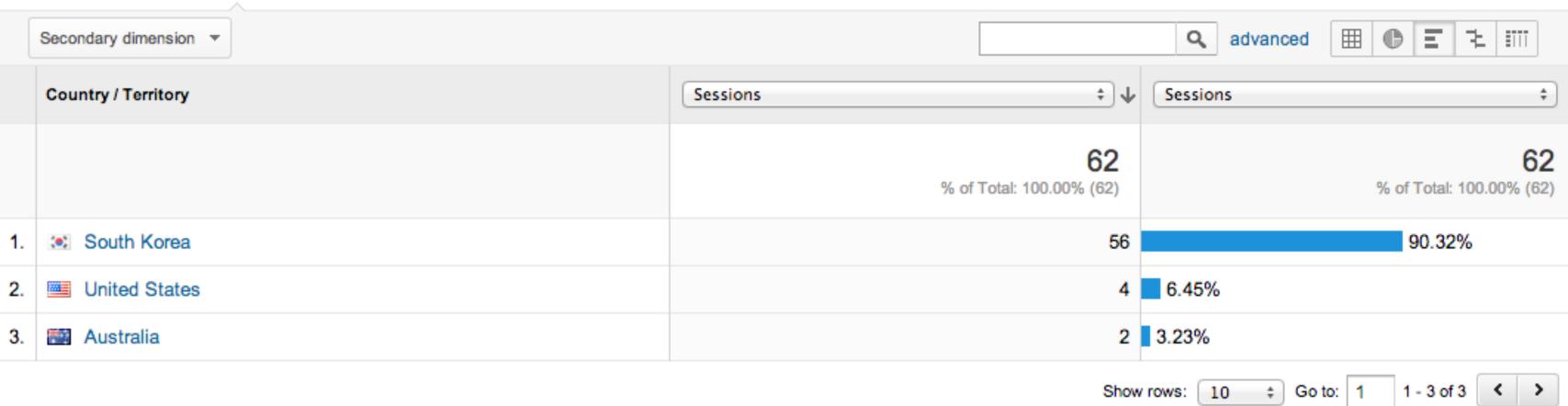


Country / Territory ②	Acquisition			Behavior			Conversions All Goals ▼		
	Sessions	% New Sessions	New Users	Bounce Rate	Pages / Session	Avg. Session Duration	Goal Conversion Rate ?	Goal Completions	Goal Value
	56 % of Total: 90.32% (62)	50.00% Site Avg: 54.84% (-8.82%)	28 % of Total: 82.35% (34)	44.64% Site Avg: 46.77% (-4.56%)	5.27 Site Avg: 4.97 (6.04%)	00:03:43 Site Avg: 00:03:24 (9.24%)	5.36% Site Avg: 4.84% (10.71%)	% of Total: 100.00% (3)	\$3.00 % of Total: 100.00% (\$3.00)
1. South Korea	56 (100.00%)	50.00%	28(100.00%)	44.64%	5.27	00:03:43	5.36%	3(100.00%)	\$3.00 (100.00%)

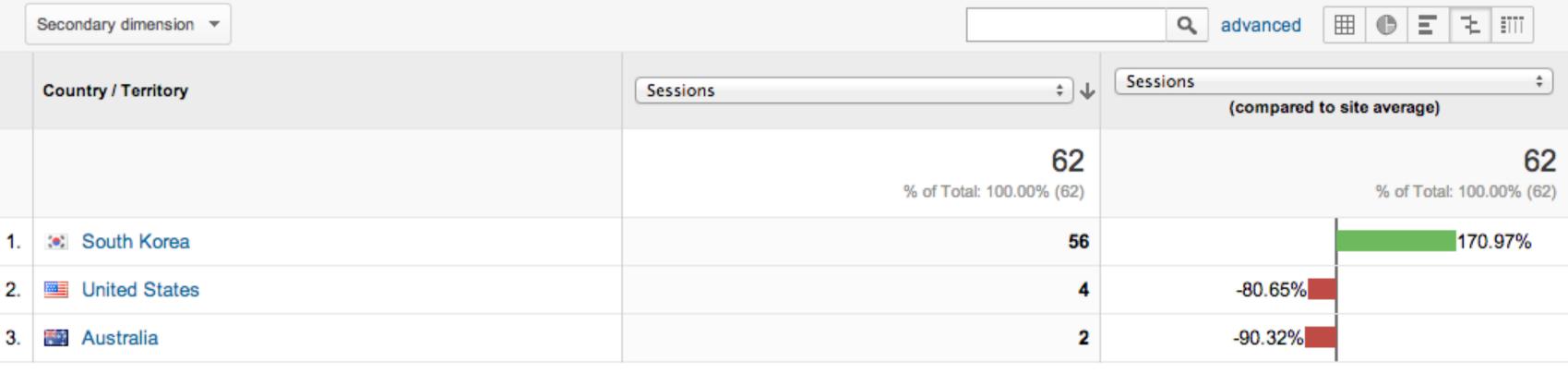
Primary Dimension: Country / Territory City Continent Sub Continent Region

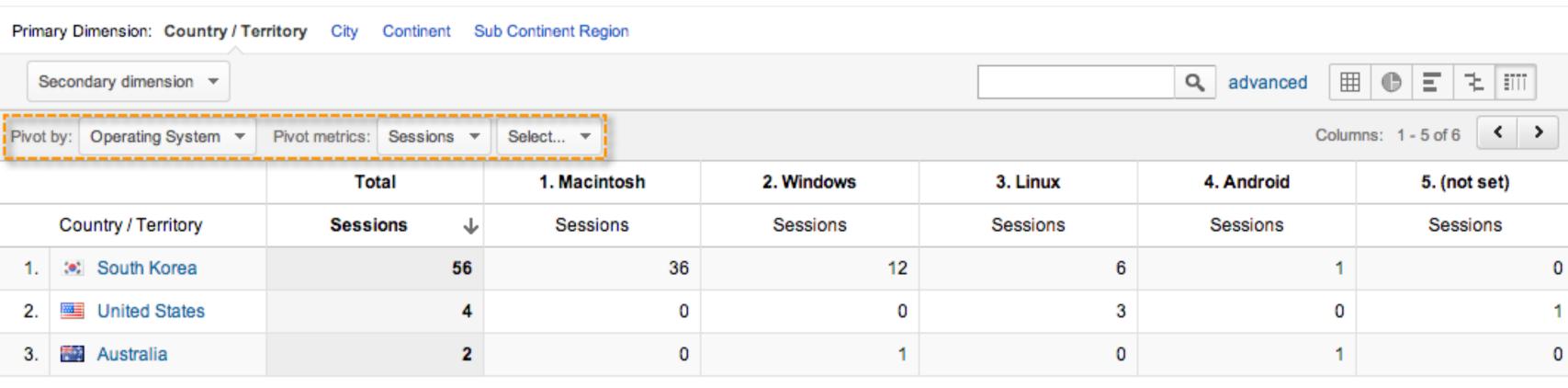


Primary Dimension: Country / Territory City Continent Sub Continent Region



Primary Dimension: Country / Territory City Continent Sub Continent Region





REPORTING DEMO

AUDIENCE > OVERVIEW AUDIENCE > GEO > LOCATION AUDIENCE > USERS FLOW

ACOUISITION > OVERVIEW ACOUISITION > CHANNELS ACOUISITION > ALL TRAFFIC

BEHAVIOR > OVERVIEW BEHAVIOR > SITE CONTENT > ALL PAGES BEHAVIOR > SITE SPEED > OVERVIEW BEHAVIOR > EVENTS > OVERVIEW

CONVERSIONS > GOALS > OVERVIEW CONVERSIONS > GOALS > FUNNEL VISUALIZATION CONVERSIONS > GOALS > GOAL FLOW

REPORTING DEMO END

CONTENT DRILLDOWN

BEHAVIOR > SITE CONTENT > CONTENT DRILLDOWN

CONTENT DRILLDOWN DEMO

CONTENT EXPERIMENTS

A/B/NTESTING NOTA/BIESTING NOT MULTIVARIABLE TEST

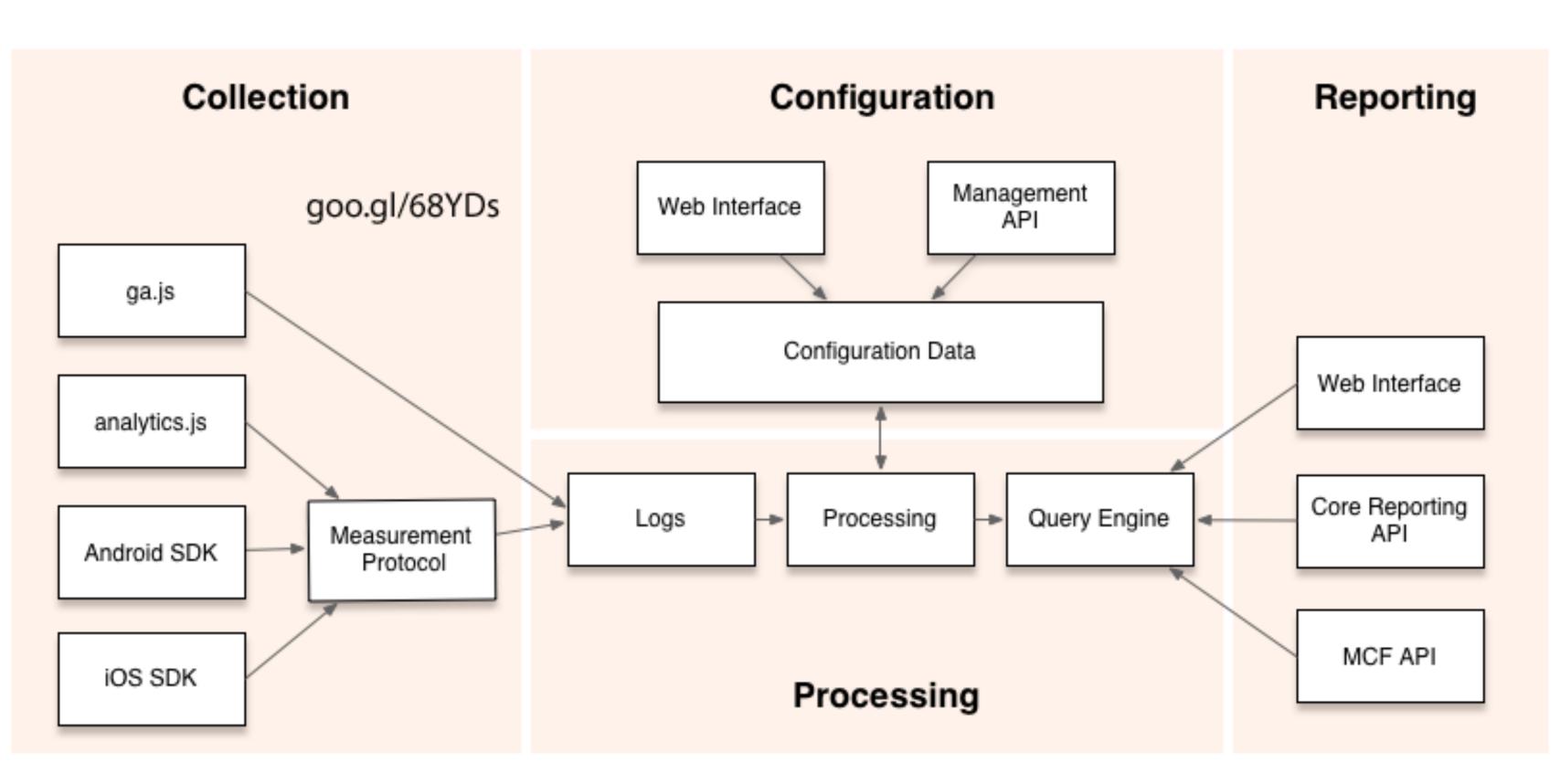
formerly Google Website Optimiser

BEHAVIOR > EXPERIMENTS

CONTENT EXPERIMENTS DEMO

DEVELOPMENT

APIS AND SDKS



COLLECTION

- · analytics.js
- Android SDK
 - · iOS SDK
- Measurement Protocol

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CONFIGURATION

Management API

REPORTING

- · Core Reporting API
 - MCF API
 - Metadata API
- · Real Time Reporting API

DEVELOPMENT WITH ANALYTICS. JS

```
<!-- Google Analytics -->

<script>
(function(i,s,o,g,r,a,m){i['GoogleAnalyticsObject']=r;i[r]=i[r]||function(){
(i[r].q=i[r].q||[]).push(arguments)},i[r].l=1*new Date();a=s.createElement(o),
m=s.getElementsByTagName(o)[0];a.async=1;a.src=g;m.parentNode.insertBefore(a,m)
})(window,document,'script','//www.google-analytics.com/analytics.js','ga');

ga('create', 'UA-XXXX-Y', 'auto');
ga('send', 'pageview');
</script>
<!-- End Google Analytics -->
```

PAGEVIEW TRACKING

```
ga('send', 'pageview');
```

VIRTUAL PAGEVIEW

```
ga('send', 'pageview', '/path/to/virtual/page');
ga('send', {
   'hitType': 'pageview',
   'page': '/path/to/virtual/page',
   'title': 'Title of Virtual Page'
})
```

EVENT TRACKING

```
ga('send', 'event', 'button', 'click', 'nav buttons', 4);
ga('send', {
  'hitType': 'event',
                       // Required.
  'eventCategory': 'button', // Required.
  'eventAction': 'click',
                        // Required.
  'eventLabel': 'nav buttons',
  'eventValue': 4
});
```

USER ID

```
ga('create', 'UA-XXXX-Y', { 'userId': 'USER_ID' });
ga('set', '&uid', 'USER_ID');
```

GOOGLE ANALYTICS LIBRARIES FOR MEAN STACK

ANGULARTICS

WEB ANALYTICS FOR ANGULARJS APPLICATIONS

· http://luisfarzati.github.io/angulartics/

```
angular.module('myApp', ['angulartics', 'angulartics.google.analytics'])
```

 supports Google Analytics, Kissmetrics, Mixpanel, Chartbeat and Segment.io

UNIVERSAL - ANALYTICS

A NODE MODULE FOR GOOGLE'S UNIVERSAL ANALYTICS TRACKING

 https://github.com/peaksandpies/universalanalytics

```
var ua = require('universal-analytics');
var visitor = ua('UA-XXXX-XX', 'USER_ID');
visitor.pageview("/").send();
```

REFERENCES

http://www.acornpub.co.kr/book/google-analytics2

https://analyticsacademy.withgoogle.com/ https://support.google.com/analytics/ https://developers.google.com/analytics/

http://luisfarzati.github.io/angulartics/ https://github.com/peaksandpies/universalanalytics

THANK YOU!