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Select the **Multilingual Embedded Dashboards** lab in the drop-down



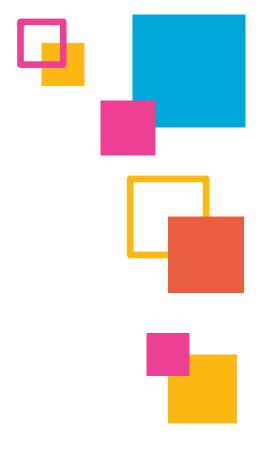




Hands-on Lab: Multilingual Embedded Dashboards

looker Sharon Zhang

Professional Services





Sharon Zhang

Senior Consultant, Professional Services





Agenda

What is localization

How to create localized dashboards

Hands on: Embedding localized dashboards

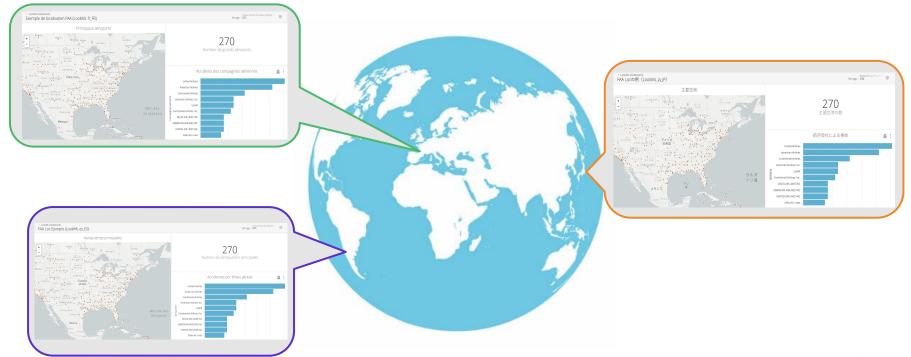
Summary

Q&A



What is localization?

Displaying content in your users' language





How does it work?



Steps

Creating a localized dashboard experience

- 1. Create dashboard and convert to LookML dashboard
- 2. Localize the data model
- 3. Provision user locales
- 4. Embed!

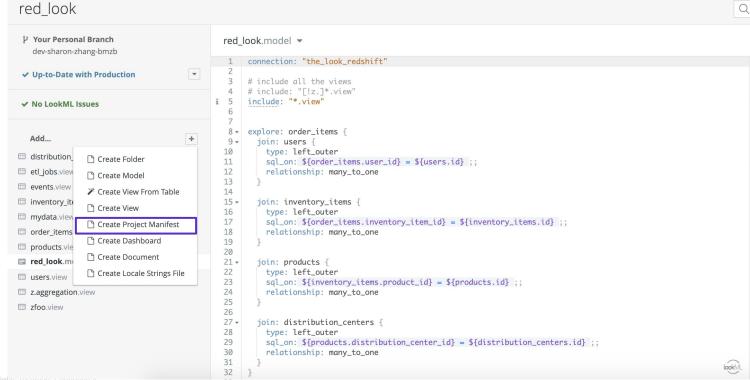


Steps for implementation

- 1. Enable localization for your project by adding localization settings to the project's manifest file.
- 2. Determine which elements will be localized by adding labels, group labels, and descriptions to your model.
- 3. Provide the localization definitions for your project by creating locale strings files.
- 4. Determine the display for different users by assigning users to locales.

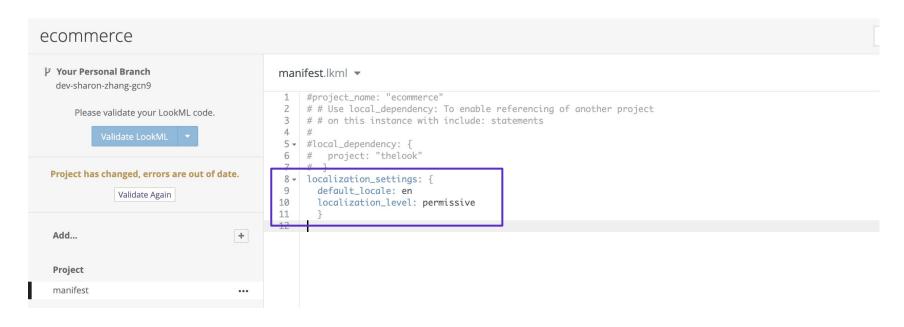


Create Project Manifest file





Add localization settings to manifest file





Add labels, group_labels, descriptions to models and views

- label at the level of field, model, Explore, or view.
- group_label at the level of Explore, field.
- group_item_label at the level of field.
- **description** at the level of Explore, field.

Tile level for lookml dashboards

- title
- description
- text

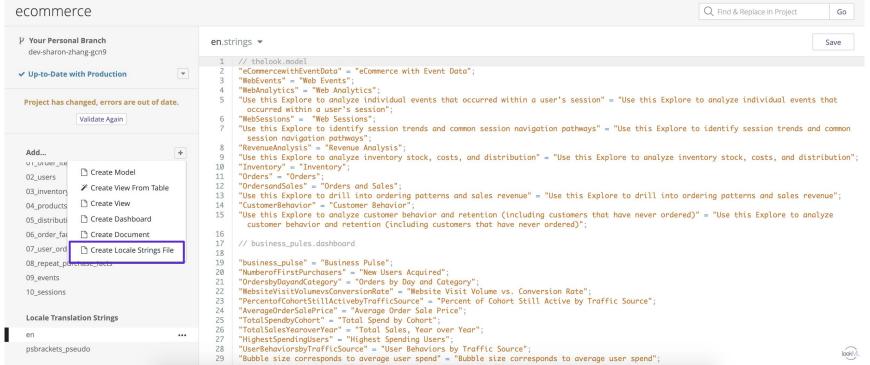


Add labels, group_labels, descriptions to models and views

```
thelook.model -
103
104
105 -
      explore: order_items
        group_label: "RevenueAnalysis"
106
107
        label: "OrdersandSales"
108
        view label: "Orders"
        description: "Use this Explore to drill into ordering patterns and sales revenue"
109
110 -
        join: order_facts {
          view_label: "Orders"
111
112
           relationship: many_to_one
          sal_on: ${order_facts.order_id} = ${order_items.order_id} ::
113
114
        join: inventory_items {
115 -
          view_label: "Orders"
116
          fields: [inventory_items.total_cost]
117
118
          type: left_outer
119
          relationship: one to one
          sql_on: ${inventory_items.id} = ${order_items.inventory_item_id} ;;
120
121
122 -
         ioin: users {
          fields: [user_information*]
123
124
          relationship: many_to_one
125
          sql_on: ${order_items.user_id} = ${users.id} ;;
126
127 -
         ioin: user_order_facts {
          view label: "Orders"
128
129
          relationship: many_to_one
130
          sql_on: ${user_order_facts.user_id} = ${order_items.user_id} ;;
131
```



Create locale strings files



Setting locales for users

Admins must manage locales for users

Internal Users

- Assign locale value in Users panel
- Assign locale value in User Attribute panel to Groups

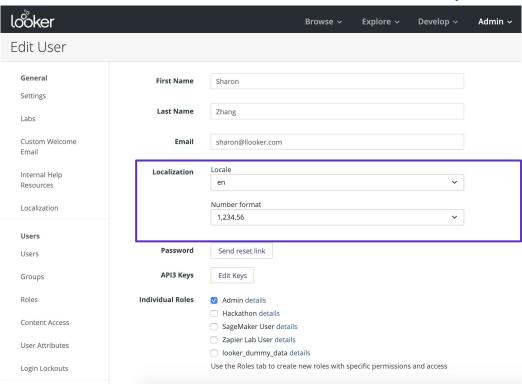
Embed Users

- Pass value via SSO URL
- Pass group_id associated with value



Setting locales for users

Assign locale and number format to users in the **Admin** panel



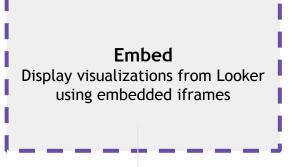


How do we integrate this dashboard into our company portal?



Powered by Looker









Using Looker's API to deliver a custom application with custom visualizations





^{*} Not mutually exclusive. Common to deploy a combination. E.g. Embed + API

Sharing Looker content in external applications

SSO embedding allows you to integrate Looker content via iframes into other applications

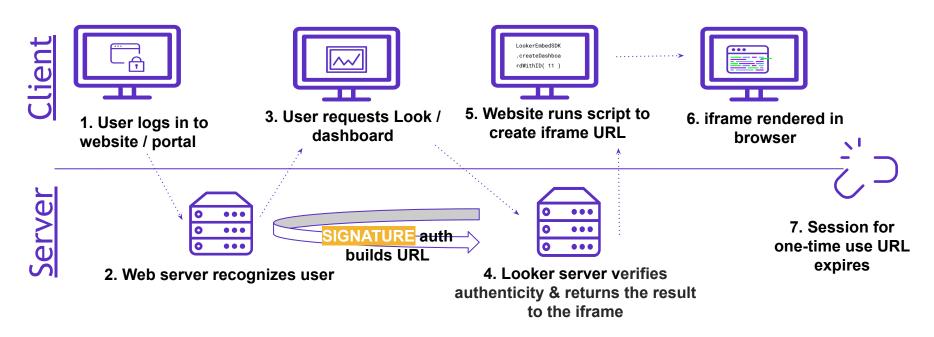
User authentication to Looker is handled through the SSO URL

Embed user never has to log into Looker

Richer in-frame experience



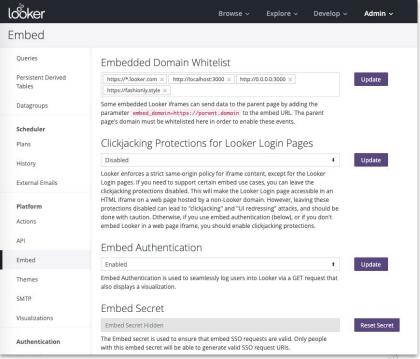
Communication workflow





Preparing your instance and content for embedding

- Enable embed authentication and generate the embed secret (Admin > Embed)
- Create content and saved content URL (e.g., /embed/dashboards/12, /embed/looks/4)
- Determine user access level
 - a) <u>Permissions</u>
 - b) Models
 - c) <u>User attributes</u>
 - d) <u>Content accesss</u>





Components of a SSO embed URL

https://HOST/login/embed/CONTENT_PATH?PARAMETERS&signature=SIGNATURE

An embeddable URL:

https://yourcompany.looker.com/login/embed/%2Fembed%2Fdashboards%2F78?nonce=%22pVbKkWWTR2hLkff%22&time=1540831983&session_length=600&external_user_id=%2255%22&permissions=%5B%22access_data%22%2C%22see_looks%22%5D&models=%5B%22sme_survey%22%5D&group_ids=%5B%5D&external_group_id=%22%22&user_attributes=%7B%7D&access_filters=%7B%7D&first_name=%22John%22&last_name=%22Smith%22&force_logout_login=true&signature=XF%2FZsgRZTeZWBSdY1kyd3eEKgE4%3D



Important parameters

session length

/seSHən leNG(k)TH/

noun

 The amount of time a user can interact with an embedded Looker page before being forced to log in again

nonce

/näns/

noun

1. A one-time-use code that ensures uniqueness of the URL

signature

/signəCHər,signəCHoor/

noun

- A piece of the embed URL that verifies the validity of the entire URL
 - a. To prevent a nefarious user from changing elements of the URL (filters, user attributes) to access data they shouldn't have access to, the URL is SIGNED



Try it out





Embedding exercise

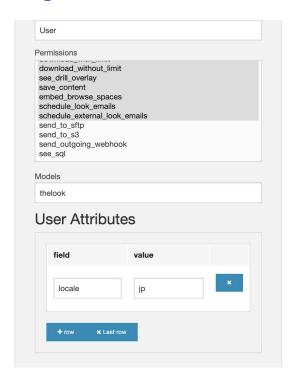
Embedding a multilingual dashboard

- 1. Navigate to the **Business Pulse** dashboard (Browse > All folders > LookML Dashboards) at join2019.looker.com
- 2. Navigate to the demo embed site: https://fabio-looker.github.io/looker.sso tool/
- 3. Get embed secret.
- 4. Fill out form on embed site. Be sure to add a user attribute for locale and value: en, fr, or jp.
- Hit **Go!**
- 6. Change the user attribute value for locale and hit **Go!** again.



Embedded Localized Dashboard example

Integration of localized dashboard in an external application







Summary

- Localizing Looker dashboards allows you to serve analytics to your users in their preferred languages.
- Store all translations inside of LookML files and edit them anytime.
- Embedding localized dashboards is quick to set up and fits easily inside an existing PBL application.



Questions?







