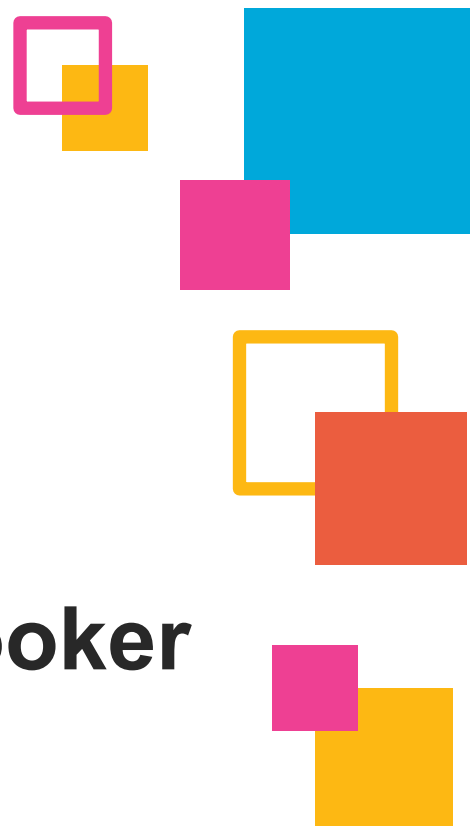




join



Hands-on Lab: Liquid: An Introduction to Customizing Looker



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looker.com/hol

Select the **Liquid: An Introduction to Customizing Looker** lab in the drop-down



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Agenda

1. What is Liquid?
2. Why should you use Liquid?
3. Custom links
4. Custom drills
5. Questions

What is Liquid?

Liquid is an open-source, Ruby-based template language created by Shopify. It can be used in conjunction with LookML to build more flexible, dynamic code.

Liquid code is denoted by braces `{ }` and falls into 3 different categories:

1. **Objects**: tell Liquid where to show content on a page

```
dimension: product_image {  
  sql: ${product_id} ;;  
  html:  ;;  
}
```

1. **Tags**: Create the logic and control flow for templates

```
label: '{% if _user_attributes['customer'] == 'A' %} Standard Margin  
{% else %} Gross Margin {% endif %}'
```

1. **Filters**: Change the output of a Liquid object

```
{% assign last_filter = part_split_at_sorts | first %}  
{% assign user_filters = user_filters | append:'&f' %}
```

Why should you use Liquid?

- Smart workflows
- Better user experience
- Unleash Looker's full potential

Using Liquid in Looker

There are several places in LookML where Liquid can be used:

- The `action` parameter
- The `html` parameter
- The `label` parameter of a field
- The `link` parameter
- Parameters that begin with `sql`
 - `sql`
 - `sql_on`
 - `sql_table_name`

A reference sheet for all available Liquid variables can be found [here](#).

Liquid Parameters

Referencing LookML Objects

Variable	Definition	Example Output
<code>value</code>	The raw value of the field returned by the database query.	8521935
<code>rendered_value</code>	The value of the field with Looker's default formatting.	\$8,521,935.00
<code>filterable_value</code>	The value of the field formatted for use as a filter in a Looker URL.	8521935
<code>link</code>	The URL to Looker's default drill link. Note that some fields will not have any default link.	/explore/thelook/orders?fields=orders.order_amount
<code>linked_value</code>	The value of the field with Looker's default formatting and default linking.	\$8,521,935.00
<code>_model._name</code>	The name of the model for this field.	thelook
<code>_view._name</code>	The name of the view for this field.	orders
<code>_explore._name</code>	The name of the Explore for this field.	order_items
<code>_field._name</code>	The name of the field itself.	total_order_amount

Custom links



Custom links

Build workflows into Looker

Set up custom workflows between Looker content or between Looker and other internal or external resources.

- Link from a value in a Look or dashboard to a related page on the external web (e.g., a Salesforce page)
- Link from a value in a Look or dashboard to a related page in a different internal system (e.g., an internal application or intranet page)
- Set up a custom drill path into a dimension or measure

Link Parameter

Most links are added to dimensions and measures using the [link](#) parameter.

```
dimension: field_name {  
  link: {  
    label: "desired label name"  
    url: "desired_url"  
    icon_url: "url_of_an_image_file"  
  }  
}
```

- [label](#) is the name this link will have in the drill menu.
- [url](#) is the URL of the link. This parameter supports full Liquid (but not full HTML).
- [icon_url](#) is the URL of an image to be used as an icon for this link.

Example: **link** parameter

Links created using the **link** parameter appear when the field is clicked

Most Viewed Brands Online

	Brand	Sessions ▾	Cart to Checkout Conversion
1	Levi's	6,088	86.41%
2	Allegra K	2,854	86.17%
3	Columbia	2,585	85.28%
4	Dock	2,570	85.20%
5	Carha	2,439	85.97%
6	Ray-E	2,366	87.37%
7	Chan	2,036	84.53%
8	Hane	1,388	85.32%
9	Lee	1,207	87.62%
10	Trend	1,082	86.05%
11	Russe	862	83.52%
12	Calvin	793	84.35%
13	Patty	726	84.50%
14	Dickies	718	88.38%
15	Duofold	691	85.24%

DRILL INTO COLUMBIA

by Category

by Item Name

EXPLORE

Filter on "Columbia"

LINKS

- Website
- Facebook
- Brand Analytics Dashboard

Practice exercise: external link

Add a link to the **Brand** dimension in the **Products** view that allows a user to [click on a brand](#) in the user interface and link to a [Google search for that brand](#).

Practice exercise: external link

Add a link to the **Brand** dimension in the **Products** view that allows a user to [click on a brand](#) in the user interface and link to a [Google search for that brand](#).

```
dimension: brand {  
  type: string  
  sql: ${TABLE}.brand ;;  
  link: {  
    label: "Google"  
    url: "http://www.google.com/search?q={{ value }}"  
    icon_url: "http://google.com/favicon.ico"  
  }  
}
```

Add multiple actions in links

```
link: {
  label: "Add Contact Role in Salesforce"
  url: "https://YOURCOMPANY.my.salesforce.com/02Z/e?parentId={{ account.id._value }}"
}
icon_url: "https://www.google.com/s2/favicons?domain=www.salesforce.com"

link: {
  label: "Create New Opportunity"
  url: "https://YOURCOMPANY.my.salesforce.com/006/e?accid={{ account.id._value }}"
  icon_url: "https://www.google.com/s2/favicons?domain=www.salesforce.com"
}



link: {
  label: "News for \"{{ value }}\""
  url:
    "https://www.google.com/webhp?sourceid=chrome-instant&ion=1&espv=2&ie=UTF-8"
  icon_url: "https://www.google.com/favicon.ico"
}

link: {
  label: "Slack Channel"
  url:
    "https://YOURCOMPANY.slack.com/app_redirect?channel={{slack_channel_id._value }}"
  icon_url: "https://a.slack-edge.com/814a8/marketing/img/meta/favicon.ico"
}
```













EXPLORE

Filter on "Allegra K"

DASHBOARDS

-  Customer Lookup for "Allegra K"
-  Partner Lookup for "Allegra K"

LINKS

-  Website 
-  View in Salesforce 
-  Add Contact Role in Salesforce 
-  Create New Opportunity 
-  News for "Allegra K" 
-  Slack Channel 

Custom drills



Custom drills

Build workflows into Looker

Set up custom workflows between pieces of Looker content

- Link from an executive dashboard to a detail dashboard
- Link from a Look or dashboard to an Explore

The screenshot illustrates a custom drill workflow in Looker. On the left, a table titled 'Users Email' lists seven email addresses. A context menu is open over the second row, 'aaron.clinton@gmail.com', showing options: 'EXPLORE', 'Filter on "aaron.clinton@gmail.com"', 'LINKS', and 'Customer Details'. The 'Customer Details' option is highlighted with a purple box. On the right, the 'Customer Detail Dashboard' is shown with a filter for 'Customer Email' set to 'is equal to' 'aaron.clinton@gmail.com'. A purple arrow originates from the 'Customer Details' link in the context menu and points towards the text 'Values get passed through the link using Liquid'.

Values get passed through the link using Liquid

Custom drills

Build workflows into Looker

```
link: {  
  label: "Details Dashboard"  
  url: "/dashboards/29?Brand={{ value }}"  
}
```

**ID of the target
dashboard**



**Filter name on
target dashboard**



Practice exercise: Looker link

Add a link to the **Email** dimension in the **Users** view that allows a user to [click on an email](#) in the user interface and [link to a detailed customer lookup dashboard](#) (ID = 26) for the selected user.

Practice exercise: Looker link

Add a link to the **Email** dimension in the **Users** view that allows a user to click on an email in the user interface and link to a detailed customer lookup dashboard (ID = 26) for the selected user.

```
dimension: email {  
  type: string  
  sql: ${TABLE}.email ;;  
  link: {  
    label: "User Detail Dashboard"  
    url: "/dashboards/26?Email={{value}}"  
  }  
}
```

Custom drilling with HTML

```
dimension: history {  
  sql: ${TABLE}.first_name ;;  
  html: <a  
    href="/explore/thelook/orders?fields=orders.detail*&f[users.id]={ { id._value } }">Orders</a>  
    | <a  
    href="/explore/thelook/order_items?fields=order_items.detail*&f[users.id]={ { id._value } }">Items</a>;;  
}
```

Orders		Users	Users	Orders	
Created Date		Name	History	Total Order Profit	
1	2015-10-30	Cynthia Jones	Orders	Items	\$36.8
2	2015-10-26	Robert Brooks	Orders	Items	\$98.65
3	2015-10-27	Donald Parenteau	Orders	Items	\$199.34
4	2015-11-04	Bill Wellman	Orders	Items	\$11.69
5	2015-10-29	Rebecca Moll	Orders	Items	\$16.65

DATA		RESULTS		SQL		Calculations		Row Limit	500	Totals
Orders Created Date	Order Items ID	Orders ID	Users Name	Users History	Products Item Name	Products Brand Name	Products Category Name	Products Department Name	Order Items Total Sale Price	
1	2015-10-30	51392	30197	Cynthia Jones	Orders Items	BCBGMAXAZRIA Women's Hazel Rib Tank Dress	BCBGMAXAZRIA	Dresses	Women	\$48.00
2	2015-10-30	51393	30197	Cynthia Jones	Orders Items	Calvin Klein Men's 3 Pack No Show Liner Socks	Calvin Klein	Plus	Women	\$20.00
3	2015-07-25	44792	26281	Cynthia Jones	Orders Items	Devon & Jones DP310W Ladies' Short Sleeve Cotton/Lycra Stretch Jersey Tennis Polo Shirt	Devon & Jones	Tops & Tees	Women	\$15.99
4	2015-06-18	42352	24832	Cynthia Jones	Orders Items	Low Profile Dyed Cotton Twill Cap - Putty W39S55D	MG	Accessories	Women	\$5.95
5	2015-06-18	42353	24832	Cynthia Jones	Orders Items	TAUPE JUMPSUIT LACING POCKETS LAGENLOOK - FITS - 2X 3X 4X - TS93S LOTUSTRADERS	LOTUSTRADERS	Jumpsuits & Rompers	Women	\$47.99
6	2015-06-18	42354	24832	Cynthia Jones	Orders Items	Pedquette by Peds 3 Pair No Show Footies NUDE Size 5-10 Size 5-10	Peds	Socks & Hosiery	Women	\$6.00
7	2015-01-16	32881	19270	Cynthia Jones	Orders Items	A. Byer Juniors Tropical Cambridge Pant	A. Byer	Pants & Capris	Women	\$40.00

Questions?

The background is a solid purple color. A central point has numerous thin, light-purple lines radiating outwards across the entire frame. There are three distinct clusters of small, light-purple squares: one on the left side, one in the upper right quadrant, and one in the lower right quadrant.



looker





Thank you

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