

[SAP Community](#) > [Products and Technology](#) > [Technology](#) > [Technology Blogs by Members](#)> [Dynamic Reference Line \(for Date\) in Webi Report](#)

Technology Blogs by Members

Explore a vibrant mix of technical expertise, industry insights, and tech buzz in member blogs covering SAP products, technology, and events. Get in the mix!

Blog

*What are you looking for today?*

12.8

Dynamic Reference Line (for Date) in Webi Report

**mhmmohammed**

Active Contributor



2021 Apr 07 7:21 PM

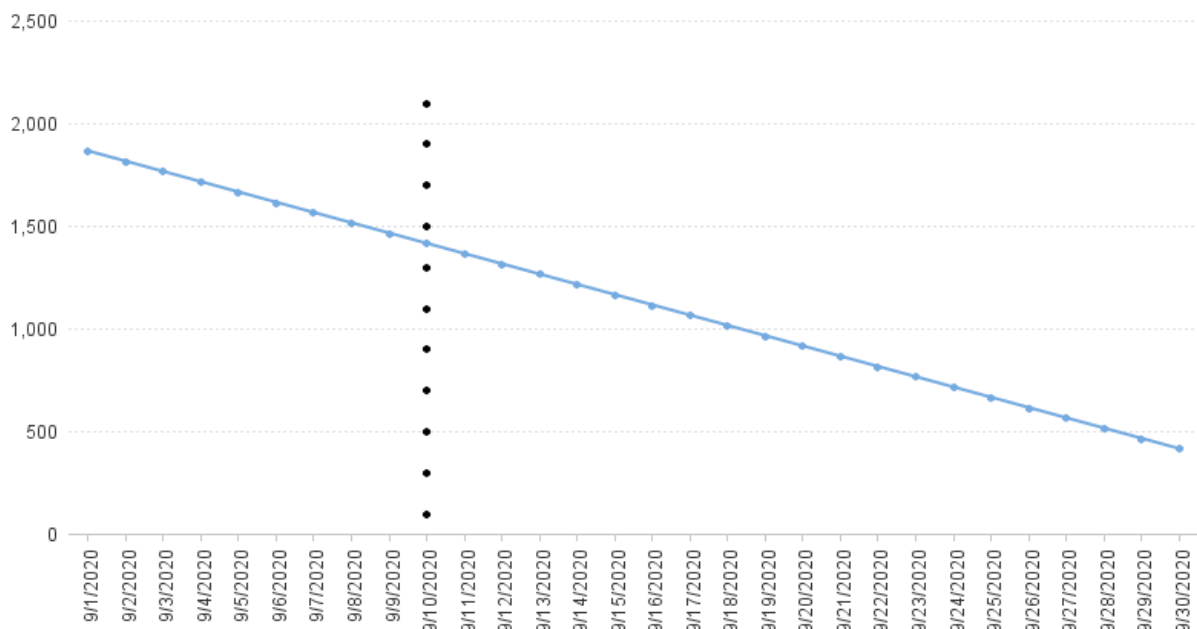


0 Kudos

1,284

SAP Managed Tags: SAP BusinessObjects - Web Intelligence (WebI)

One of the BI folks I know was wondering if there was a way to create reference line for Date in Webi, for one of his requirements, with a way to select/enter a Date to be used. Below is the result (& workaround) I suggested, which worked like charm.



Sample data used

Date	Case Count
9/1/2020	1865
9/2/2020	1815
9/3/2020	1765
9/4/2020	1715
9/5/2020	1665
9/6/2020	1615
9/7/2020	1565
9/8/2020	1515
9/9/2020	1465
9/10/2020	1415
9/11/2020	1365
9/12/2020	1315
9/13/2020	1265
9/14/2020	1215
9/15/2020	1165
9/16/2020	1115
9/17/2020	1065
9/18/2020	1015
9/19/2020	965
9/20/2020	915
9/21/2020	865
9/22/2020	815
9/23/2020	765
9/24/2020	715
9/25/2020	665
9/26/2020	615
9/27/2020	565
9/28/2020	515
9/29/2020	465
9/30/2020	415

Step 1: Create a report with the above data set as source from Excel (we've 2 columns in the data set, **Date** and **Case Count**)

Step 2: Create the below variables

- **Input Reference Date** = "" (its a blank Text variable, we'll create an **Input Control** type **Entry Field** on it, so users are able to enter a Date, for which a reference line is needed.)
- **Reference Date** =ToDate([Input Reference Date];"MM/dd/yyyy") (This to convert the Input Reference Date from Text to Date format, so it can be used in the Line Chart)

Next we'll be creating a bunch of dummy variables, which will help us to create that **Reference Date Line** in the Chart. Depending on the max value on Y axis and how the **Reference Date Line** needs to look like, you should create less or more Dot variables.

- **Dot 1** =If([Date]=[Reference Date]) Then 100
- **Dot 2** =If([Date]=[Reference Date]) Then 300
- **Dot 3** =If([Date]=[Reference Date]) Then 500
- **Dot 4** =If([Date]=[Reference Date]) Then 700
- **Dot 5** =If([Date]=[Reference Date]) Then 900
- **Dot 6** =If([Date]=[Reference Date]) Then 1100
- **Dot 7** =If([Date]=[Reference Date]) Then 1300
- **Dot 8** =If([Date]=[Reference Date]) Then 1500
- **Dot 9** =If([Date]=[Reference Date]) Then 1700
- **Dot 10** =If([Date]=[Reference Date]) Then 1900
- **Dot 11** =If([Date]=[Reference Date]) Then 2100

Step 3: Create an Input Control on the **Input Reference Date** variable, with the Entry Field, as show in the below images.

Select Report Object

Select the report object assigned to the input control

- [-] Date Reference Line
 - [-] Date
 - [-] Case Count
 - [-] Variables
 - Input Reference Date**
 - [-] Reference Date
 - [-] Dot 1
 - [-] Dot 10
 - [-] Dot 11
 - [-] Dot 2
 - [-] Dot 3
 - [-] Dot 4
 - [-] Dot 5
 - [-] Dot 6
 - [-] Dot 7
 - [-] Dot 8
 - [-] Dot 9
- [-] References

☐ Filter objects to current selection

Arranged By **Alphabetic Order**

< Previous **Next >** Cancel

Choose Control Type

Select a control and its associated properties

Simple Selection

- Entry field**
- [-] Combo box
- [-] Radio buttons
- [-] List box
- [-] Calendar
- [-] Spinner
- [-] Simple slider
- [-] Tree list

Multiple Selections

- [-] Check box
- [-] List box
- [-] Double slider
- [-] Tree list

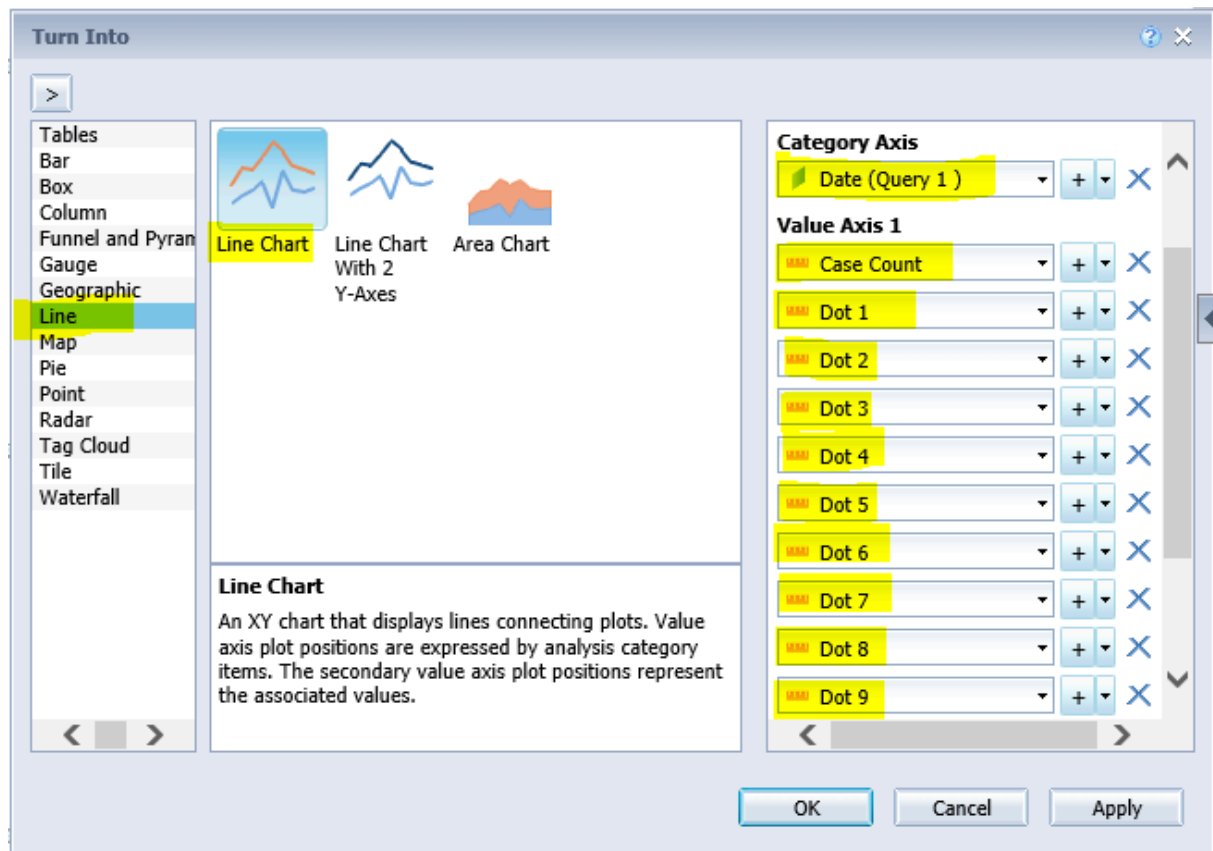
Input Control Properties

Entry field: Enter the name of a value in a text field.

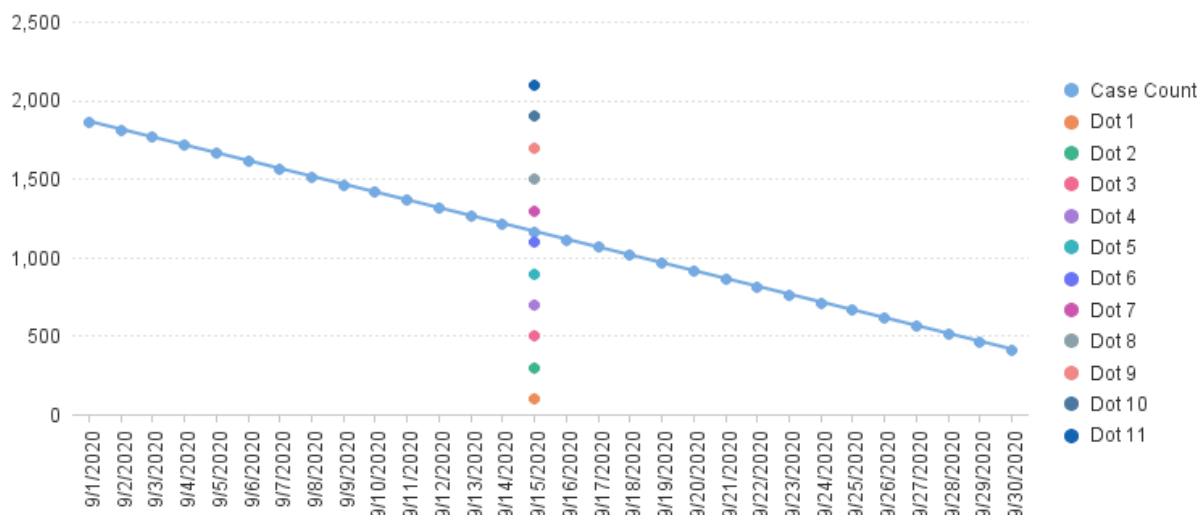
Control type	Entry field
Name	Input Reference Date
Description	
Default value(s)	09/15/20
Filter operators	Equal to

< Previous **Finish** Cancel

Step 4: Create a **Line Chart** by assigning data as shown below (result Chart is shown as well).



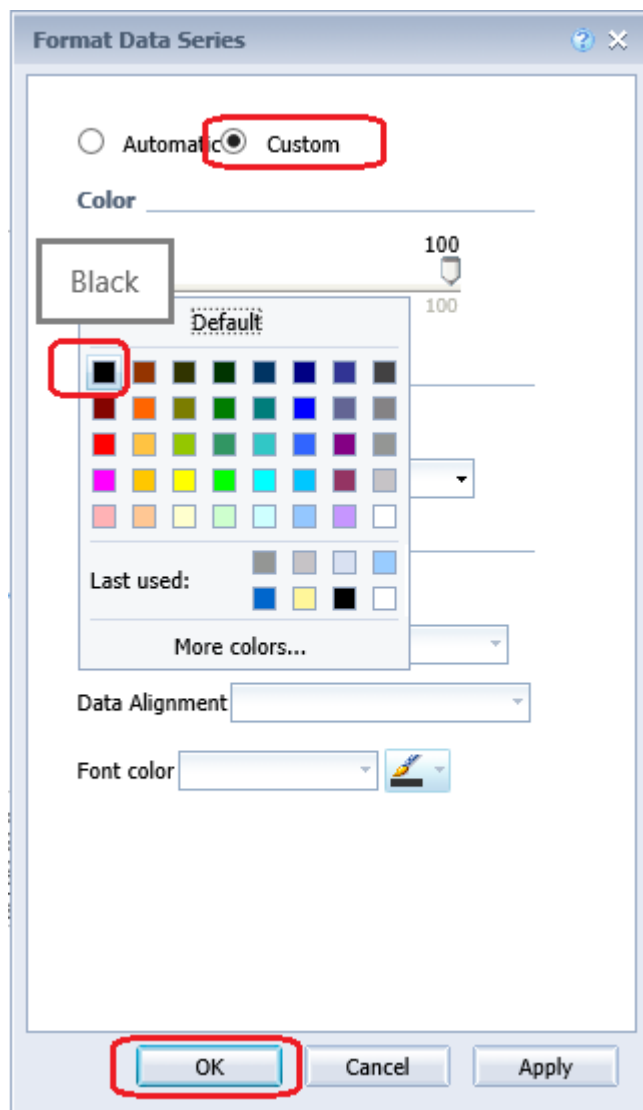
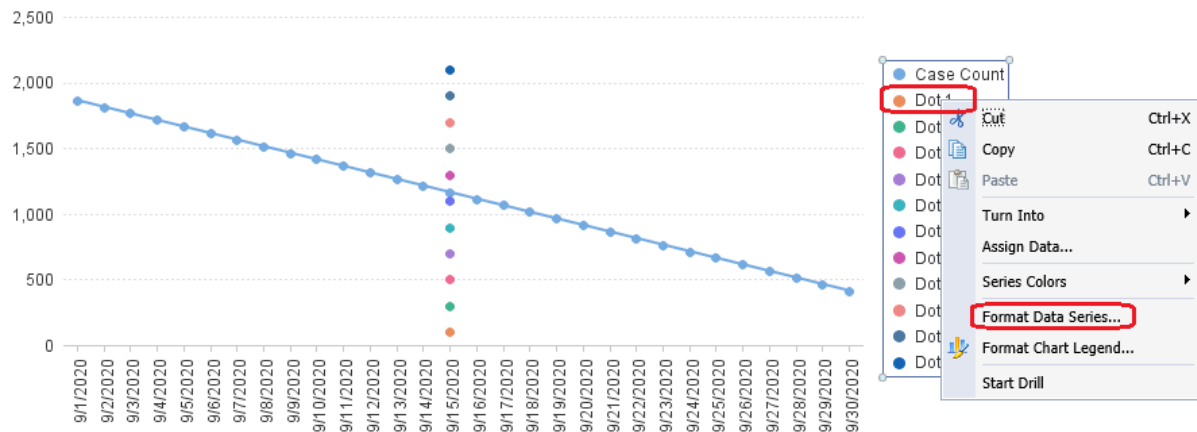
Case Count / Dot 1 / Dot 2 / Dot 3 / Dot 4 / Dot 5 / Dot 6 / Dot 7 / Dot 8 / Dot 9 / Dot 10 / Dot 11 by Date



Step 5: Update the Chart Title as needed

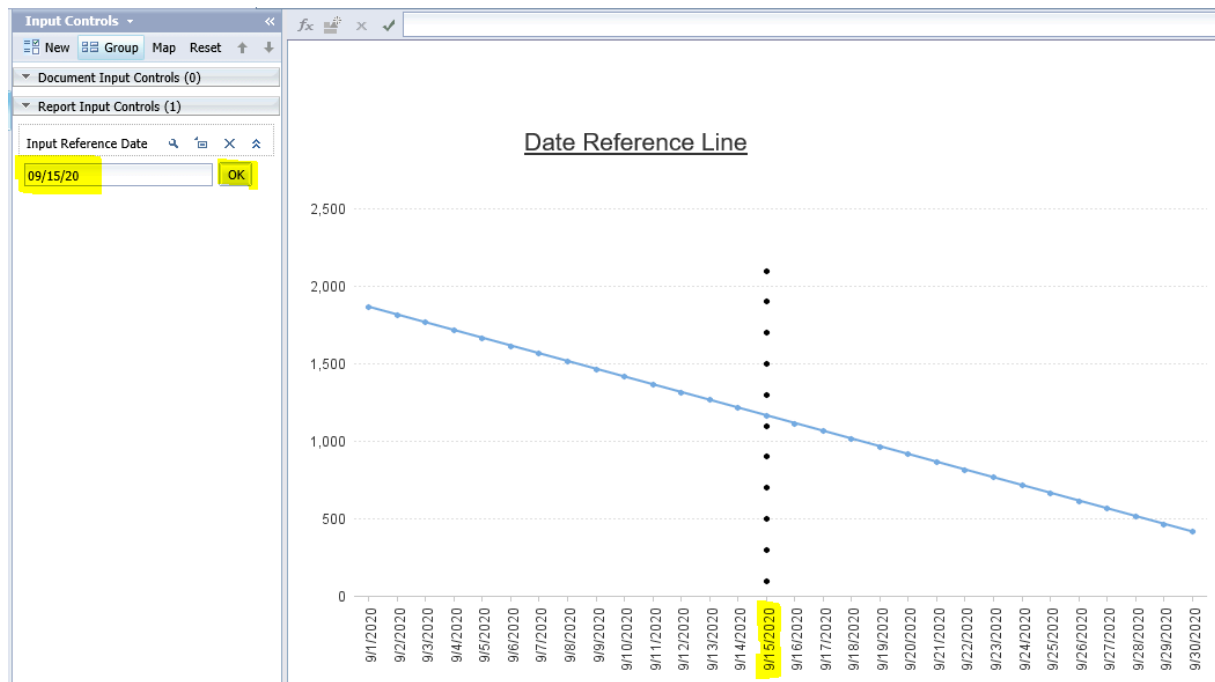
Step 6: Change the color of Dot 1, Dot 2,... Dot 11 (as many Dot variables we have) to **Black** (or any other color you want the Reference Line to be), using the **Format Data Series** option as below. Right click on each of the Dot variable from the Chart legend, and select **Format Data Series**.

Case Count / Dot 1 / Dot 2 / Dot 3 / Dot 4 / Dot 5 / Dot 6 / Dot 7 / Dot 8 / Dot 9 / Dot 10 / Dot 11 by Date



Step 7: Hide the Chart Legend

Step 8: Test the Reference Date Line by entering a different date in the Input Control (ex: 9/15/20). This is what it looks like, eventually.



Hope this helps some of you in the future! Please feel free to leave feedback, comments, and/or point to any errors in the blog, so I can fix them.

Tags:

DateReferenceLine

DynamicReferenceLine

DynamicReferenceLineForDate

LineChartReferenceDateLine

ReferenceDateLineChart

ReferenceLine

ReferenceLineForDate

You must be a registered user to add a comment. If you've already registered, sign in. Otherwise, register and sign in.

Comment

Labels In This Area

"Aging List of Receivables" 1

"as_written_by_Marian_Zeis" 1

"automatische backups" 1

"Data Source Migration" 1

"Integration Challenges" 1

"regelmäßige sicherung" 1

"SAP BW 7.4" 1

"SAP BW" 5

"SAP VARIANT CONFIGURAITION 2

"SAP_BUILD_APPS" 1

"SAPDatasphere" 2

"TypeScript" "Development" "FeedBack" 1

*SAP" 1

-147 Get CurrentUserInfo failed 1

2YM 1

3-TIER Extensibility 3

30 examples 1

[505 Technology Updates 53 1](#) [@expertsap 1](#) [@hanasizing 1](#)
[@RetroDate_HireDateCorrection 1](#) [@sapilm @archiving @sapiq 1](#)
[@SAPSupport 1](#) [@SCPI 2](#)
[A Comprehensive Guide to Using OLE Objects in SAP ABAP 1](#) [aATP 1](#) [ABAP 41](#)
[ABAP 7.4 2](#) [ABAP API 1](#) [ABAP BAPI BAPI_FIXEDASSET_CREATE1 1](#)
[ABAP BTP 1](#) [ABAP CDS VIEW 2](#) [ABAP CDS Views 12](#)
[ABAP CDS Views - BW Extraction 3](#) [ABAP CDS Views - CDC \(Change Data Capture\) 3](#)
[ABAP Class 3](#) [ABAP Cloud 8](#) [ABAP Cloud Developer Trial 1](#)
[ABAP DDIC CDS view 1](#) [ABAP development 13](#) [ABAP Editor 1](#)
[ABAP Environment & RAP 2](#) [ABAP Extensibility 4](#) [ABAP for EWM 1](#)
[ABAP in Eclipse 3](#) [ABAP Interface 1](#) [ABAP New Syntax 1](#) [ABAP ODATA 2](#)
[ABAP on HANA 1](#) [ABAP OOABAP 1](#) [ABAP PLATFORM 1](#) [ABAP Platform Trial 2](#)
[ABAP Programming 8](#) [ABAP Push Channels 1](#) [ABAP Query 1](#) [ABAP RAP 3](#)
[ABAP RAP custom action 2](#) [ABAP RAP\(RESTful Application Programming\) 5](#)
[ABAP RESTFul API 1](#) [ABAP RESTful Application Programming Model 2](#)
[ABAP String functions 1](#) [abap technical 1](#) [ABAP test cockpit 1](#) [abap to xml 1](#)
[abapGit 1](#) [absl 2](#) [Access data from datasphere to ADF Azure Data Factory 5](#)
[access data from SAP Datasphere directly from Snowflake 1](#)
[Access data from SAP datasphere to QlikSense 2](#) [Accessibility 1](#)
[Accessibility in SAPUI5 1](#) [Accrual 1](#) [Acquire SAC Knowledge 3](#) [acquired 1](#)
[action 1](#) [actions 1](#) [Activity 1](#) [Adaptation Project 1](#) [adapter 2](#)
[adapter modules 2](#) [ADDING LEAN SERVICES 2](#) [Addon 2](#)
[Adobe Document Services 1](#) [Adobe forms 1](#) [ADS 1](#) [ADS Config 1](#)
[ADS with ABAP 1](#) [ADS with Java 1](#) [ADT 4](#) [Advance Shipping and Receiving 1](#)
[Advanced ABAP 1](#) [Advanced Event Mesh 4](#) [Advanced formula 1](#)
[Advanced Formulas 2](#) [Advanced Metric 1](#) [Advanced SAP Techniques 1](#)
[Advanced Scripting in SAC 3](#) [Advanced Workflow 2](#) [AEM 1](#) [AEM Event Portal 1](#)

Related Content

Adobe Forms Services on BTP to S/4HANA On Premise Integration

in Technology Blogs by Members Friday

How to Convert from HTML to PDF in SAP CPI - Part I

in Technology Blogs by SAP Wednesday

A year of Collaboration and Innovation: SAP Open Source Report 2024

in Technology Blogs by SAP Tuesday

Using Apache Kafka for messaging in the SAP Cloud Application Programming Model (CAP) – Part 1/2

in Technology Blogs by Members 2 weeks ago

Perform Percentage Calculations in SAP Datasphere

in Technology Blogs by SAP 2 weeks ago

Popular Blog Posts**SAP PI for Beginners****former_member200339**

Participant

726429 155 388



ABAP 7.40 Quick Reference



jeffrey_towell2
Participant

👁 1213396 💬 75 👍 344



Difference between SAP S/4HANA :Public Vs Private edition : RISE with SAP



rajarajeswari_kaliyaperum
Active Participant

👁 185780 💬 47 👍 309

Top Kudoed Authors



IngoH

11



santoshdwivedi

8



Siva_Prakash_S

7



dallas_marks

7



LucasMagriniRigo

5



Kamlesh_Rampal

5



jeffrey_towell2

4



PriyankaChak

4



Pradipta

4



MehmetSaidDemir

3

[View all](#)

[Privacy](#)

[Terms of Use](#)

[Copyright](#)

[Legal Disclosure](#)

Trademark

Support

Cookie Preferences

Follow

