



Dashboards, Formatting, and Publishing Online

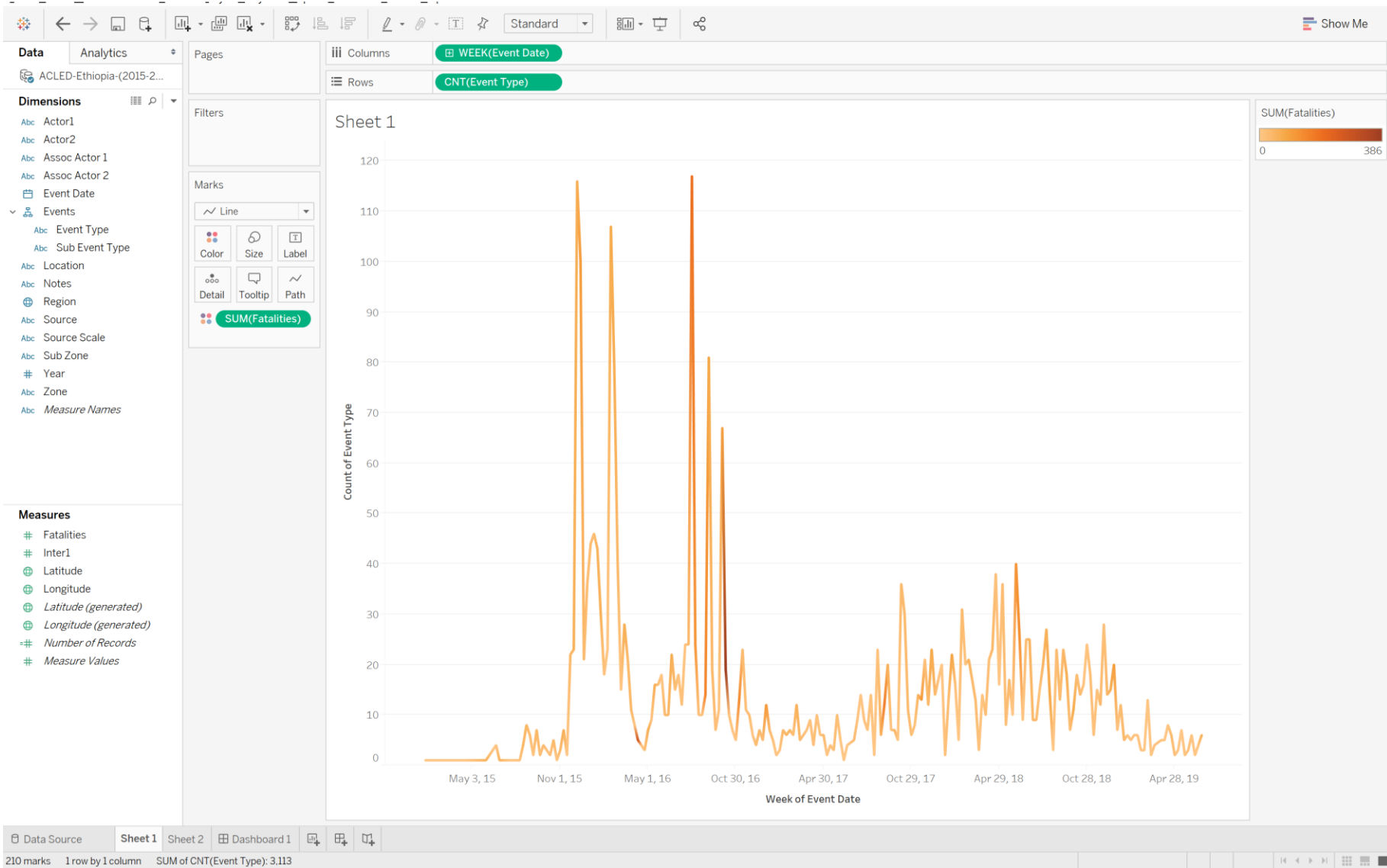
MODULE 4





Make a Line Graph

- Lets continue with the ACLED workbook from the last module
- Using the line graph, add the following filters here:
 - Region
 - Year (Slider)
 - Give it a title (e.g. “Events Over Time”)



Dashboards

You've got data and you've got insights — now you're ready to share your findings
with the world

Addis Ababa University

Dashboard Layout

Default Phone

Device Preview

Size

Custom size (1200 x 800)

Sheets

Map

Events over Time

Events by Region...

Objects

Horizontal Web Page

Vertical Blank

Text Button

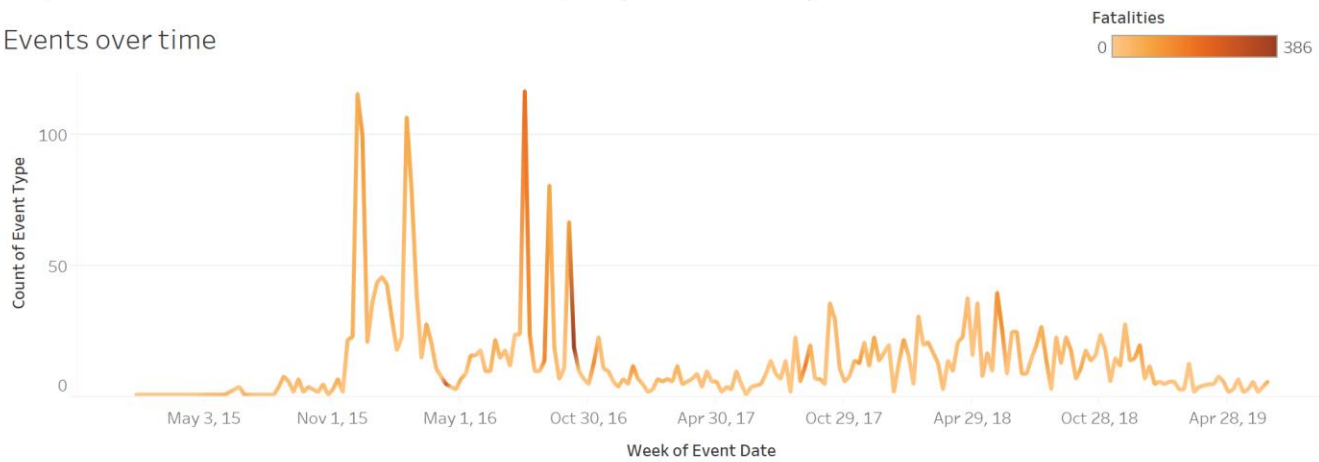
Image Extension

Tiled Floating

Show dashboard title

Reported Events of Conflicts in Ethiopia (2015 - 2018)

Events over time



Region

(All)

Addis Ababa

Afar

Amhara

Benshangul-Gumaz

Dire Dawa

Gambela Peoples

Harari People

Oromia

Somali

Southern Nations

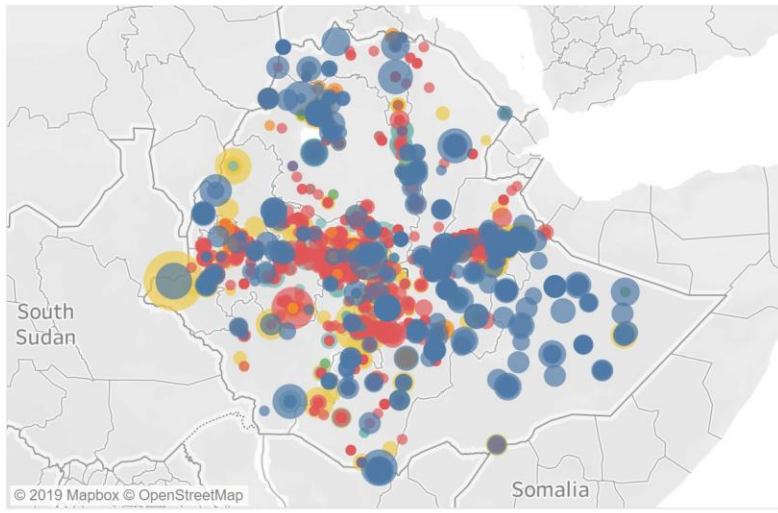
Tigray

Year

(All)

Number of Events by Region

Region	Zone	Sub Zone	Location	
Addis Ababa	Addis Ababa	Addis Ababa	Addis Ababa	134
			Bole	1
			Karl Square	1
			Meskel Squ...	1
			Addis Kete...	4
			Akaki Kality	3
			Akaki Kality	3
			Gullele	3
			Kolfe - Keran	3
			Piazza	3
			Lideta	1
			Nifas Silk-L...	8
			Yeka	2
			Kotobe	2
Afar	Zone 1	Aysaita	Aysaita	5
			Chifra	2
			Lege Tafo	5



Event Type

Battles

Explosions/Remote violence

Protests

Riots

Strategic developments

Violence against civilians

Fatalities

0

50

100

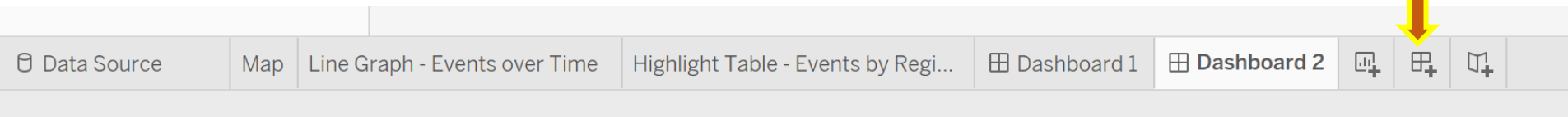
150

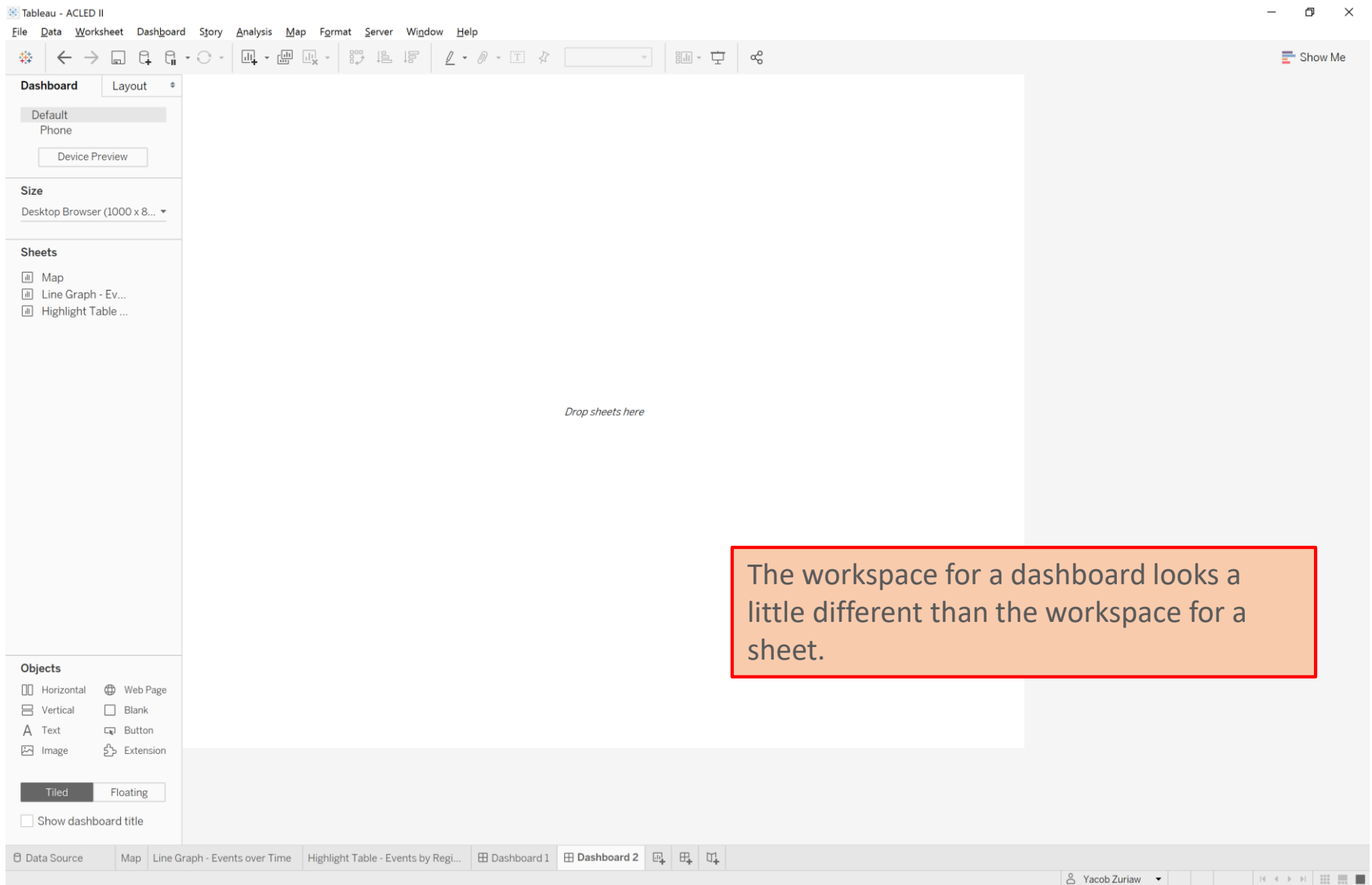
208



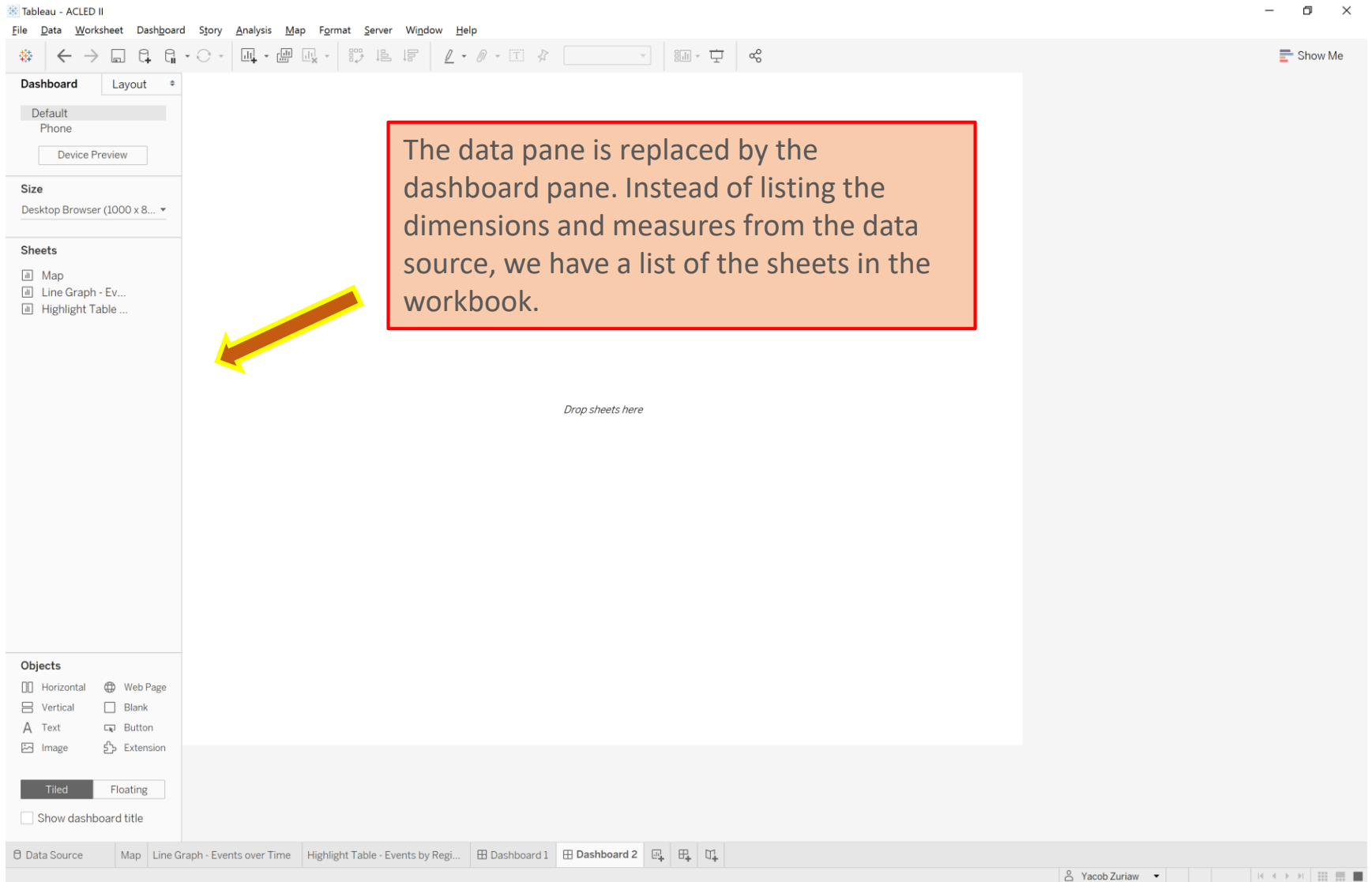
Dashboards

- Dashboards can be created by clicking on the Dashboard button, at the bottom on the Sheets Tab.





The workspace for a dashboard looks a little different than the workspace for a sheet.





Determining Layout Size

- It's very important to consider the destination of a dashboard from the beginning
- In the size area, we have three main options: fixed size, automatic, and range.
- A lot of effort goes into designing the layout and visual of a dashboard – you can save headache and time by considering things like size and devices from the beginning.
- You should design with mobile devices in mind.



Adding Views to a Dashboard

- Adding views to a Dashboard is very easy! Just like we drag fields into a view, we can drag views onto a dashboard!
- Any related legends will also come out – unless they've been hidden on the original sheet.
- The first view will automatically take up the whole dashboard. Any subsequent views, though, can be placed in specific areas of the screen. Holding down the mouse button as you move your mouse around the dashboard shows grey areas indicating where this view will be placed when you let go of the mouse.
- If we bring it all the way to the very bottom, it will fill across the entire width, including the side panel with legends.

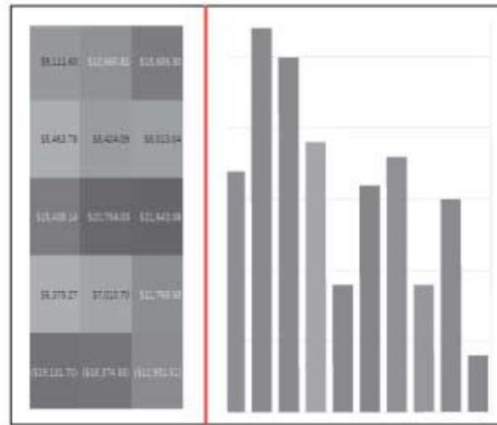


Layout Containers

- Tableau organizes dashboards into pieces called containers.
- Containers hold sheets within them, and can be either structured to carry sheets **horizontally, vertically,** or a **tiled** combination of the two.

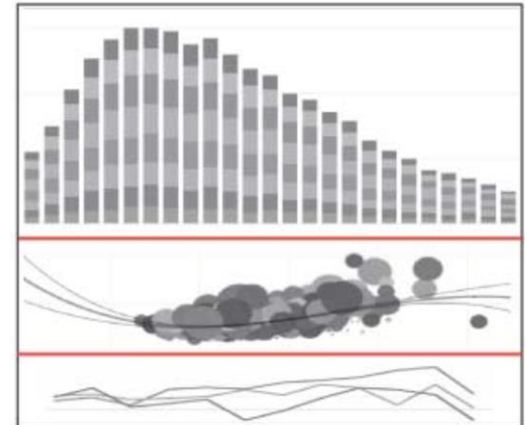
Horizontal layout container

The two views below are arranged in a horizontal layout container.



Vertical layout container

The three views below are stacked in a vertical layout container.

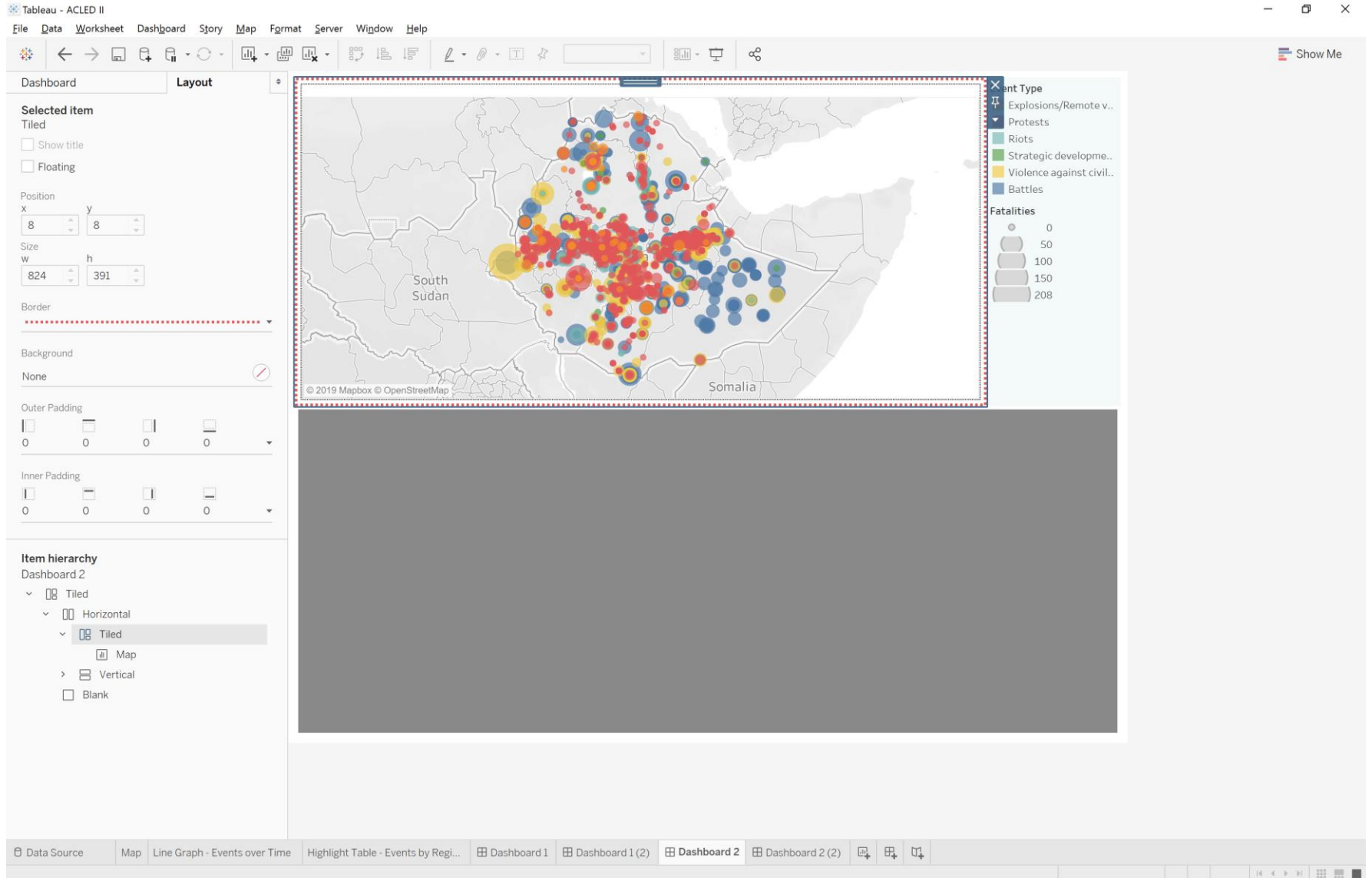




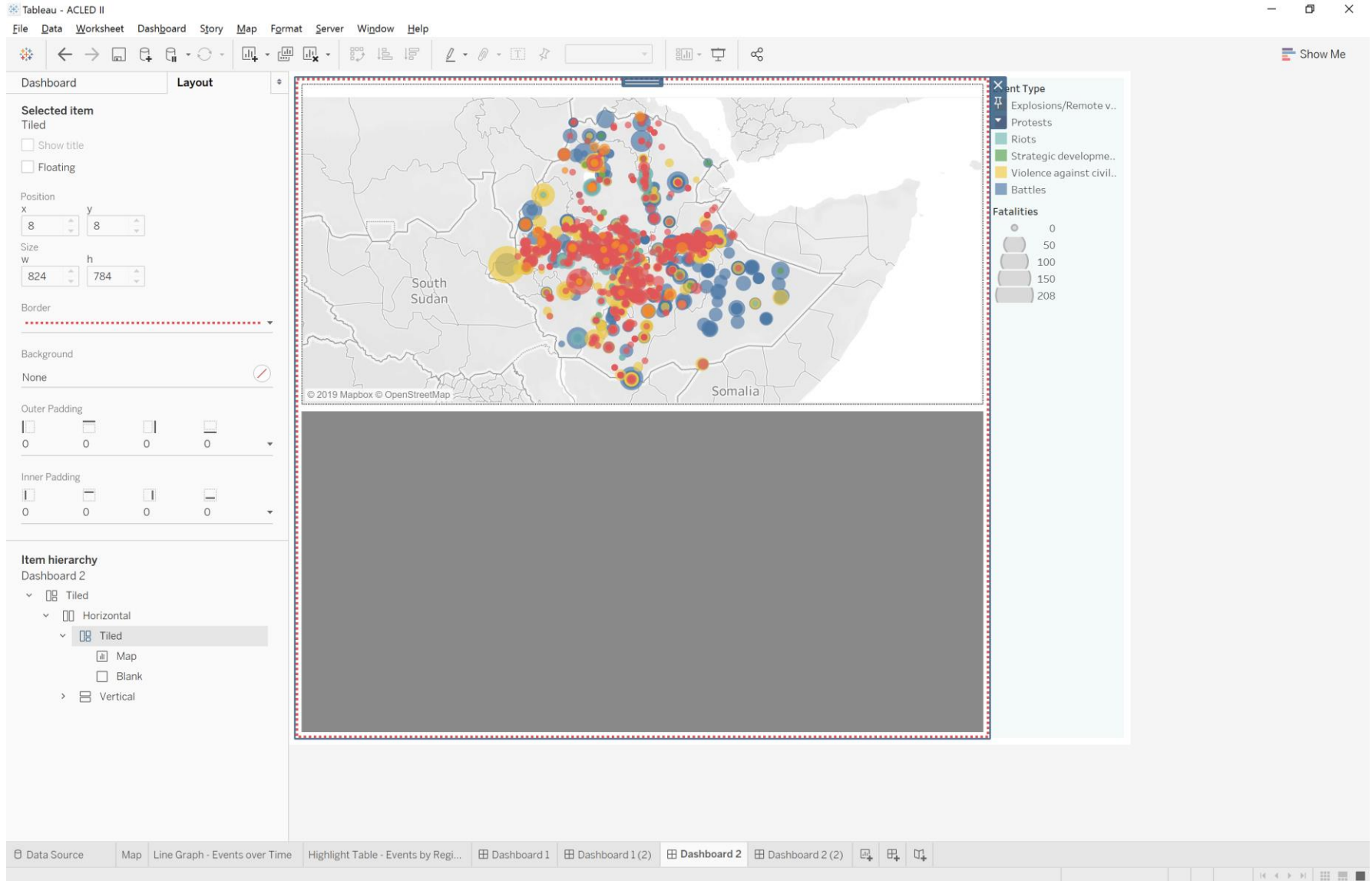
Layout Containers

- By default, nothing is present on a dashboard.
- Adding further tiled objects will allow for the option to place them either in or around what is already present on a dashboard.
- When adding objects to a dashboard, it is important to be mindful of dashboard **item hierarchy**.
- Paying attention to the hierarchy of items on the dashboard will make for a smoother dashboard building experience.

UNDER the Horizontal Container



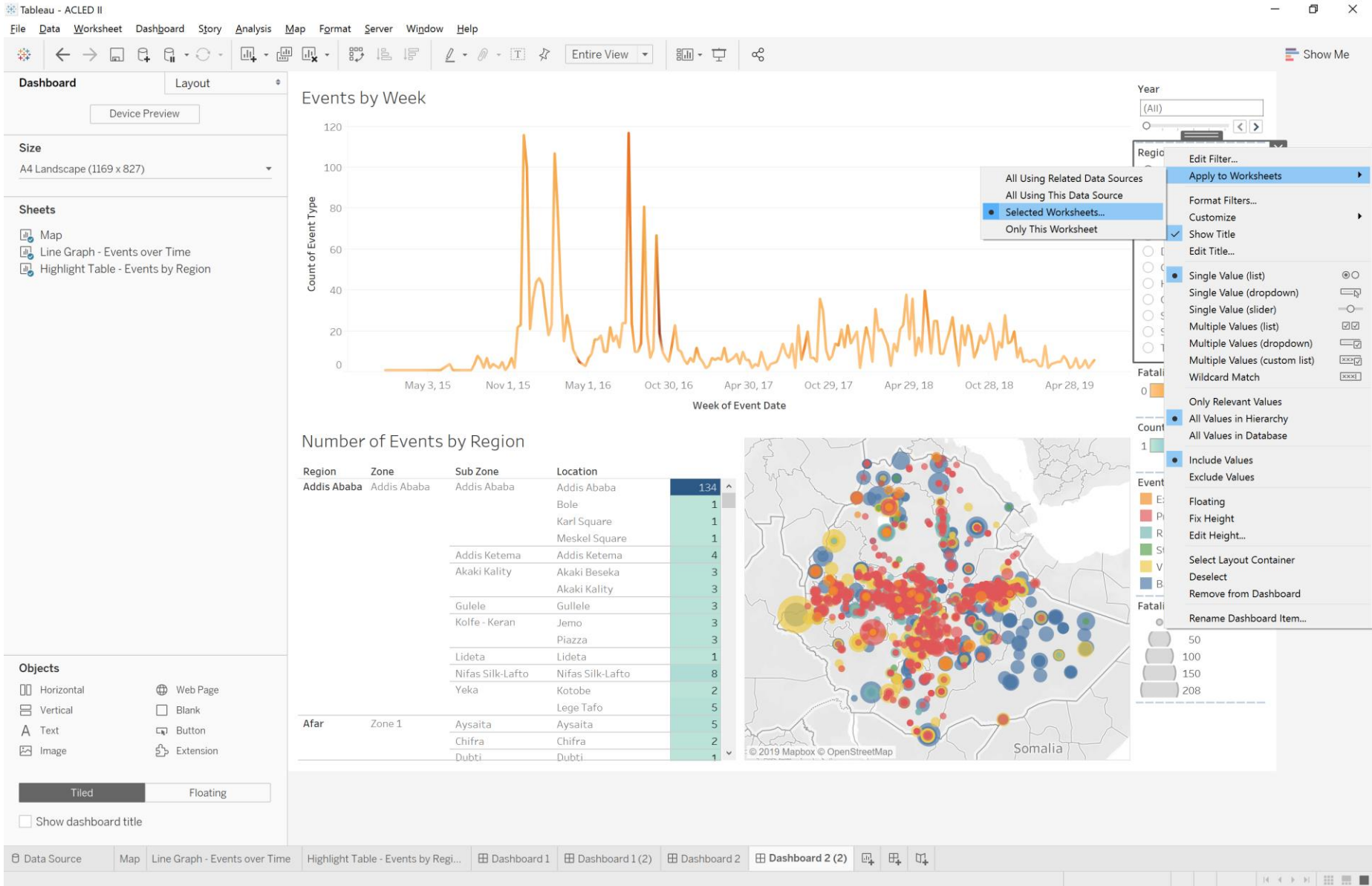
WITHIN the Horizontal Container





Legends and Filters

- Drag the Line Graph, Map, and Highlight Table sheets onto a blank Dashboard
- Legends and filters appear automatically on the right within their own vertical container
- Accompanying filters however only work for the sheet they were initially assigned to.
- This however, can be easily remedied by applying a filter to other worksheets
- Right+click on a filter, hover over Apply to Worksheets, and click “Selected Worksheets” to extend a filter to work for other sheets







Using the DHS or ACLED data, Make a Dashboard of Your Own Choosing



ACLED
Bringing clarity to crisis



Save your dashboard to Tableau Public

*(you may have to create a
Tableau Public account)*



Create Your CGDV
Profile!



CENTER FOR GLOBAL DATA VISUALIZATION – User Profiles

Create a profile on the [CGDV website](https://www.centerforglobaldata.org/):

- <https://www.centerforglobaldata.org/authentication/signup>
- Sign up for an account
- Add a headshot
- **Submit your Dashboard**



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Biography:

Hi, I'm Yacob! I am a recent grad of the Master's in Development Practice program at Emory University. I have a background in Microeconomics and International Relations, and am interested in applying data insights to aid the path of progress in Ethiopia and beyond.



What to Explore Beyond this Workshop

- Sets
- Calculated Fields
- Parameters
- All can be found on online video training provided for free by Tableau:
 - <https://www.tableau.com/learn/training?signin=30d1294b968d36b72592974a1f87c933>

End of Module 4

End of Day 2



Thank You!





Data Visualization Workshop using Tableau

31st July and
1st August, 2019

Organizer

Center for Global Data Visualization (CGDV) by QED Group



The workshop introduces the process of making data visualizations to give informative insights in International Development.

Dates: Wednesday, 31st July and
Thursday, 1st August, 2019

Time: 9AM to 11:50AM

Venue: Addis Ababa University
School of Information Science
CBE(FBE) Campus, Eshetu Chole Building
1st Floor, Room 124

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Co-Organizers

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Emory University, Laney Graduate School, Master's in Development Practice



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