



# University of California Tableau User Group (UC TUG)

**HOSTED BY:**

**UCOP INSTITUTIONAL RESEARCH AND ACADEMIC PLANNING (IRAP)**

**SEPTEMBER 14, 2018**

# Agenda

- ◇ Undergraduate Graduation Rates –Tongshan Chang (**25 minutes**)
  - ◇ Data Preparation, Challenges and Benefit to Campuses
- ◇ Hex Map Creation – Amit Prayag (**20 minutes**)
- ◇ 4 Useful Resources
  1. 7 tips and tricks from the dashboard experts
  2. 10 best practices for building effective dashboards
  3. Good enough to great: a quick guide for better data visualizations
  4. The evolution of storytelling
  5. Using R and Tableau
  6. UC Tableau User Group Webpage
- ◇ Q & A (**10 minutes**)
- ◇ Next Meeting (**5 minute**)

# Undergraduate Graduation Rates

## Undergraduate Graduation Rates

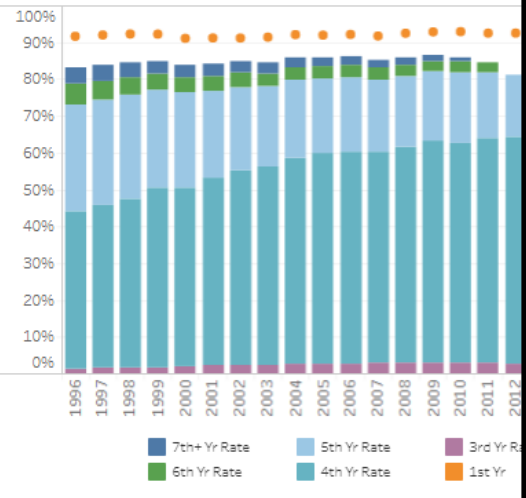
Campus: (All) | Gender: (All) | Race/Ethnicity: (All) | Residency: (All) | First Generation Status: (All) | Pell G: (All)

### Freshman Retention and Graduation Rates

The current universitywide freshman first-year retention rate is 92.9 percent, higher than non-UC AAU (American Association of Universities) institutions (91 percent), but lower than AAU private institutions (96 percent). The universitywide freshman six-year graduation rate is 84.4 percent. The "7+ Year" graduation rates are the final graduation rates through summer 2017.

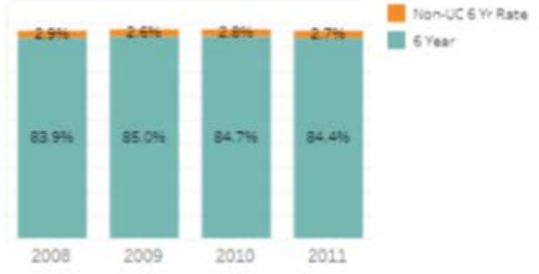
### First Year Retention and Cumulative Graduation Rates

Year	1st Yr	3 Year	4 Year	5 Year	6 Year	7+ Year
1996	91.6%	1.2%	44.1%	73.1%	78.7%	83.3%
1997	91.9%	1.5%	46.0%	74.4%	79.6%	83.8%
1998	92.2%	1.7%	47.5%	75.7%	80.4%	84.4%
1999	92.2%	1.8%	50.4%	77.0%	81.4%	84.7%
2000	91.0%	2.1%	50.5%	76.4%	80.5%	83.9%
2001	91.1%	2.5%	53.2%	76.9%	80.9%	84.3%
2002	91.1%	2.5%	55.3%	77.8%	81.7%	84.7%
2003	91.3%	2.5%	56.2%	78.0%	81.5%	84.5%
2004	92.0%	2.6%	58.6%	79.7%	83.1%	85.7%
2005	91.9%	2.9%	59.9%	80.1%	83.3%	85.9%
2006	92.1%	2.7%	60.4%	80.3%	83.7%	86.1%
2007	91.7%	2.9%	60.1%	79.8%	83.1%	85.4%
2008	92.4%	3.2%	61.5%	80.8%	83.9%	85.8%
2009	92.8%	3.0%	63.2%	82.3%	85.0%	86.5%
2010	92.8%	2.9%	62.5%	81.9%	84.7%	85.7%
2011	92.4%	3.0%	64.0%	81.7%	84.4%	
2012	92.5%	2.8%	64.3%	81.3%		
2013	92.7%	3.0%	66.3%			
2014	92.9%	3.5%				
2015	93.4%					
2016	92.9%					



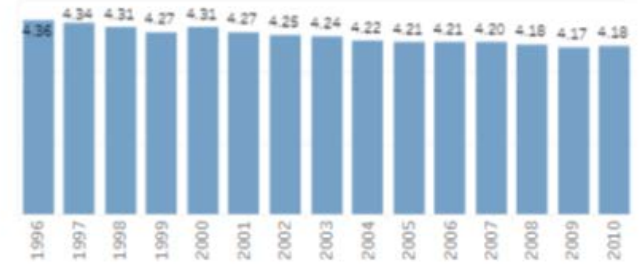
### Six-Year Graduation Rates with Non-UC Degrees

The universitywide six-year graduation rate of UC freshmen is close to 90 percent when students who finished their degree at a non-UC institution are included.

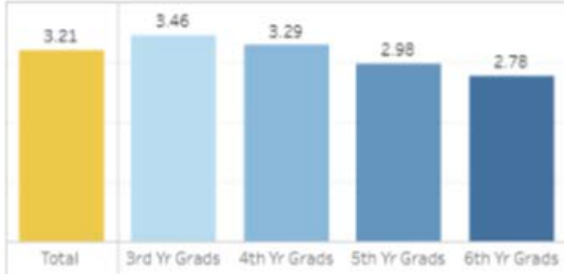


### Time-to-Degree by Entry Cohort (Elapsed Years)

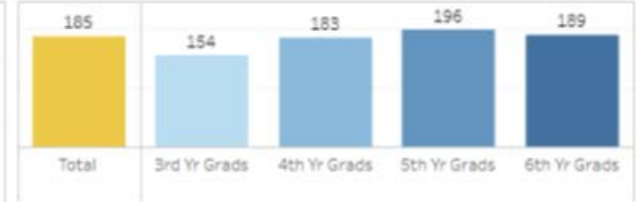
The average time to earn a bachelor's degree at UC has decreased steadily since 1997. Students entering as freshmen to UC in fall 2010 take an average of 4.18 elapsed years.



### Graduation GPA (2009 Entering Cohort)



### Graduation Quarter Units Completed at UC (2009 Entering Cohort)



UC accepts units credited by AP and IB exams and college level courses. On average, those who graduated within three years brought more than 30 quarter units.

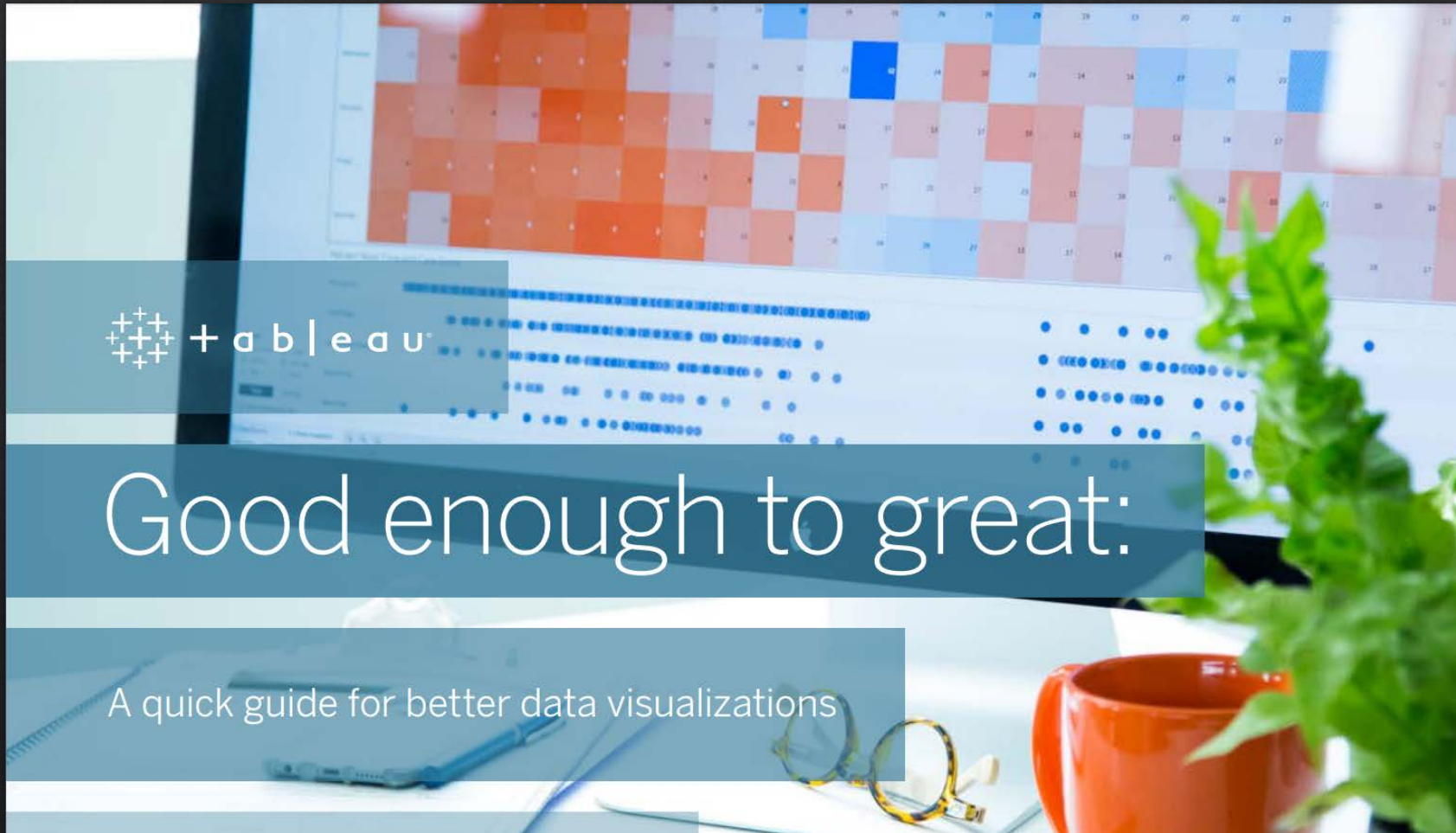
# Hex Tile Map Demonstration



How to create a  
Hex map:

<http://www.sirvizalot.com/2015/11/hex-tile-maps-in-tableau.html>

# Good Enough to Great - RESOURCE




The goal of a good dashboard is impact, not numbers. Tips on ways to take your visualization from good to great.

<http://data.ucop.edu/support-training/tableau-files/goodenoughtogreat.pdf>

# 7 Tips & Tricks from Dashboard Experts - **RESOURCE**

## 7 tips and tricks from the dashboard experts

 SHARE



ANDY COTGREAVE  
OCTOBER 19, 2017

Do you build dashboards for people in your organization? In our book, *The Big Book of Dashboards*, we show 28 different examples that succeed in data storytelling and delivering insights. Each is a complete case study with ideas you can implement in your own work.

In this post, we've highlighted seven best practices you can apply right now to make your dashboards more effective. And for even more tips and tricks, be sure to join our [webinar series](#) to dive into the art of dashboarding.

Best practices you can apply right now to make your dashboards more effective

[https://www.tableau.com/about/blog/2017/10/7-tips-and-tricks-dashboard-experts-76821?\\_src=liftigniter&\\_widget=blog-widget&li\\_source=LI&li\\_medium=blog-widget](https://www.tableau.com/about/blog/2017/10/7-tips-and-tricks-dashboard-experts-76821?_src=liftigniter&_widget=blog-widget&li_source=LI&li_medium=blog-widget)

# 10 Best Practices for Effective Dashboards - **RESOURCE**

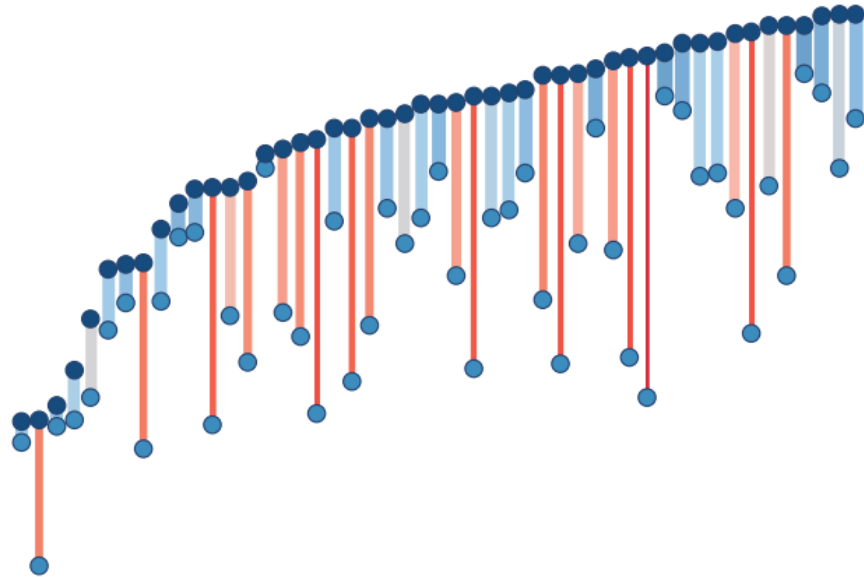
## 10 Best Practices for Building Effective Dashboards

Ellen Nadelhoffer, Senior Technical Writer

What makes a great dashboard? Thoughtful planning, informed design and a critical eye.

[http://data.ucop.edu/support-training/tableau-files/building\\_effective\\_dashboards.pdf](http://data.ucop.edu/support-training/tableau-files/building_effective_dashboards.pdf)

# The Evolution of Storytelling - **RESOURCE**



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The Evolution of Data  
Storytelling

How has our data-telling capabilities grown over the years?

[http://data.ucop.edu/support-training/tableau-files/whitepaper\\_the\\_evolution\\_of\\_storytelling.pdf](http://data.ucop.edu/support-training/tableau-files/whitepaper_the_evolution_of_storytelling.pdf)



# Using R and Tableau - **RESOURCE**

R is a popular open-source environment for statistical analysis. Tableau Desktop can now connect to R through calculated fields and take advantage of R functions, libraries, packages and even saved models. These calculations dynamically invoke the R engine and pass values to R via the Rserve package, and are returned back to Tableau.

Tableau Server can also be configured to connect to an instance of Rserve through the tabadmin utility, allowing anyone to view a dashboard containing R functionality. Combining R with Tableau gives you the ability to bring deep statistical analysis into a drag-and-drop visual analytics environment.

Read this whitepaper to learn how R functions and R models is used in Tableau (version 8.1 and later).

## What's Covered:

What is R?

What are the benefits of using R?

How does Tableau integrate with R?

Who is this feature intended for?

What R capabilities are available in Tableau?

Does this mean Tableau can do Predictive Analytics?

What R capabilities are not available in Tableau?

How do I start using Tableau with R?

Are there more resources I can utilize to learn R?

[https://www.tableau.com/learn/whitepapers/using-r-and-tableau?\\_src=liftigniter&\\_width=learn-recs-li&\\_source=LI&\\_medium=learn-recs-li](https://www.tableau.com/learn/whitepapers/using-r-and-tableau?_src=liftigniter&_width=learn-recs-li&_source=LI&_medium=learn-recs-li)

# UC TUG Web Page

## SUPPORT AND TRAINING

UCDW Support and Resources

CDW to UCDW Crosswalks

Using Cognos

Learning and Knowledge Sharing

How To's...

UCDW Coding Practices

User Guides

**Tableau and The UC Tableau User Group**

UCOP Data User Group

UCOP JIRA User Group

UC Research Methods User Group

## Tableau and The UC Tableau User Group



WEBDAM

Tableau is the tool of choice for analytics at UCOP and at multiple UC campuses. UCOP IRAP has found it to be a great data exploration tool and created the [UC Information Center](#) using Tableau.

### UC Tableau User Group (UC TUG)

UC TUG (UC Tableau Users Group) is a group of Tableau users stretching across the University of California system. We meet monthly to discuss product updates, share best practices, present how-tos, and provide critique for reports-in-development and much more. If you're a current user or are just

interested in what the product can do, drop in! For more information or an Outlook invitation, contact [Ola.Popoola@ucop.edu](mailto:Ola.Popoola@ucop.edu) or [Poorani.Rajamanickam@ucop.edu](mailto:Poorani.Rajamanickam@ucop.edu).

### Benefits of Being a Part of the UC Tableau User Group

It helps everyone gets smarter with the tool as we share tips and best practices. It encourages networking and collaboration between Tableau users who can bring fresh perspectives to projects and initiatives across the UC system.

**Where We Meet:** Franklin 5318 in Oakland or Zoom <https://UCOP.zoom.us/j/5109879601> - audio only dial \*4 (from UCOP office phone) or +1 408 638 0968 (US Toll) and use meeting ID: 510-987-9601

**When We Meet:** The 2nd Friday of every month

**Time We Meet:** 3:00PM to 4:00PM

### UC TUG Meeting PowerPoint Decks

- [University of California TUG - 10-14-16 – October 2016](#)
- [University of California TUG - 11-18-16 – November 2016](#)
- [University of California TUG - 12-09-16 – December 2016](#)

<http://data.ucop.edu/support-training/tableau-user-group.html>





# Next Meeting

- ◇ October 12<sup>th</sup> 2018
- ◇ Host – UCOP Procurement