

TELLING A STORY WITH DATA

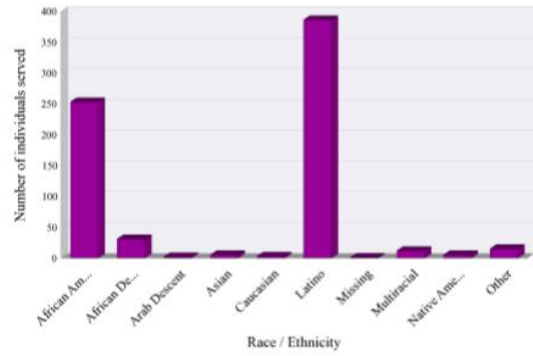


ANN K. EMERY
WWW.ANNKEMERY.COM
TWITTER: @ANNKEMERY

Latin American Youth Center (LAYC) Ethnicity of Individual Served Summary Statistics



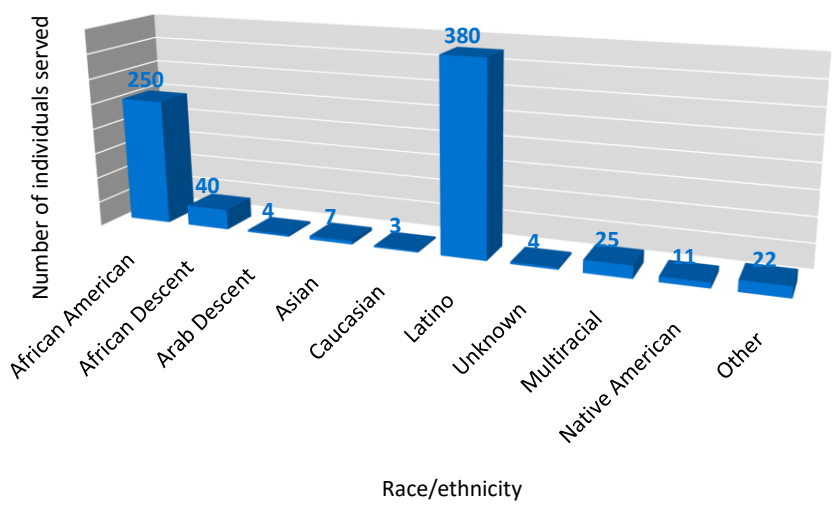
Demographic data on LAYC individual served 10/1/10 - 9/30/11
The LAYC served a total of 713 individuals between 10/1/10 and 9/30/11



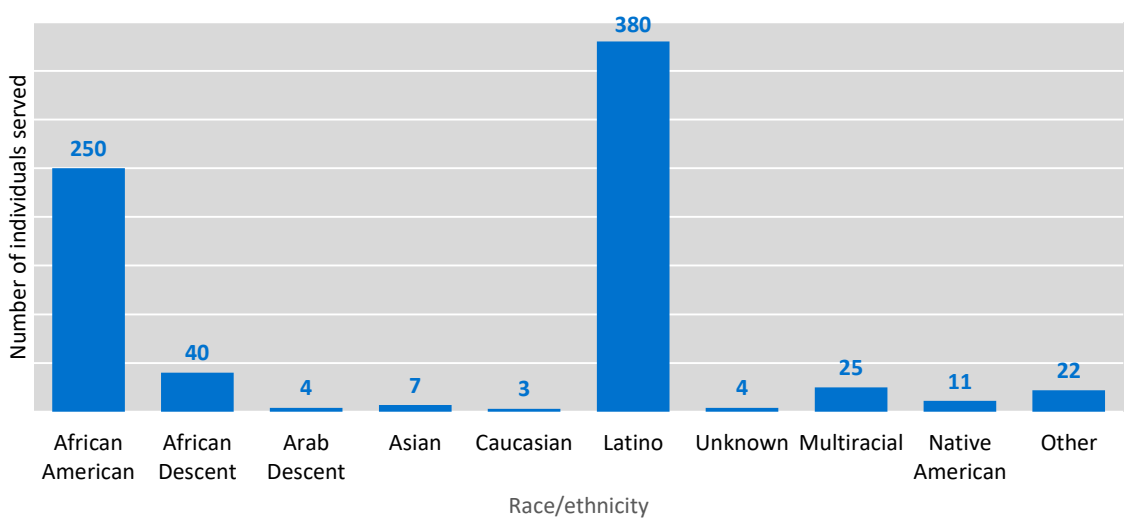
Latin American Youth Center
Learning and Evaluation Department

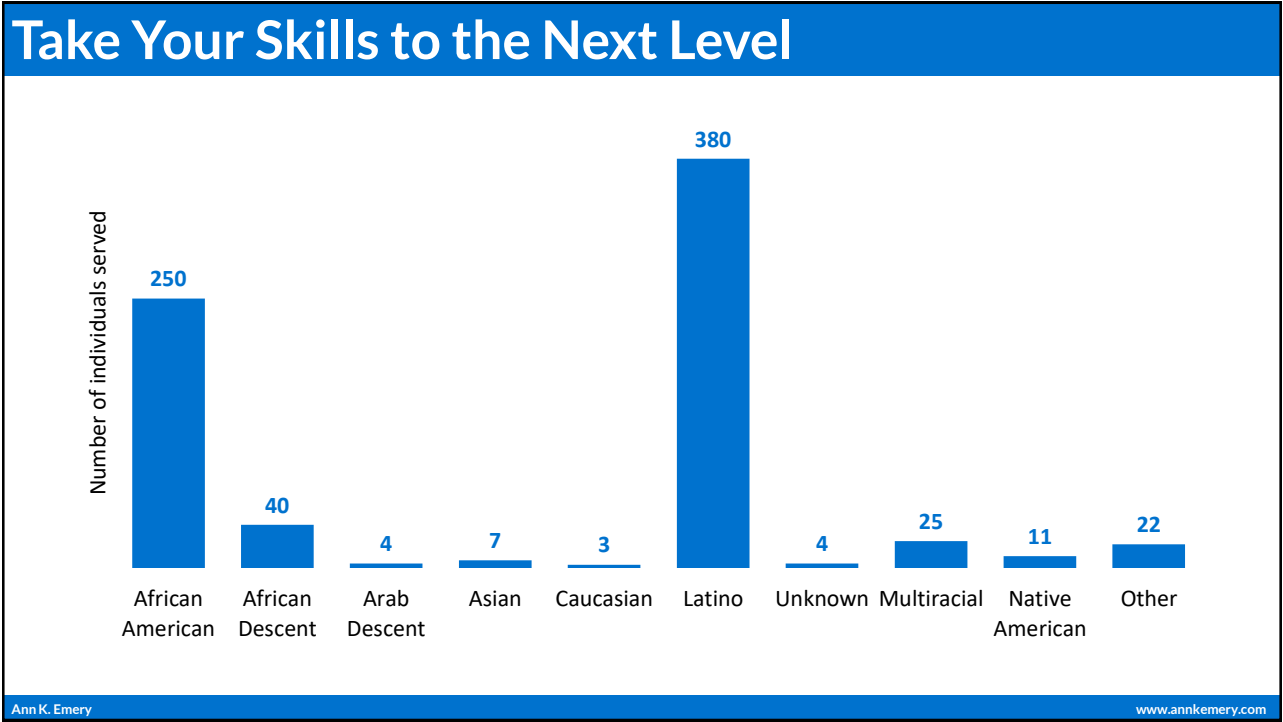
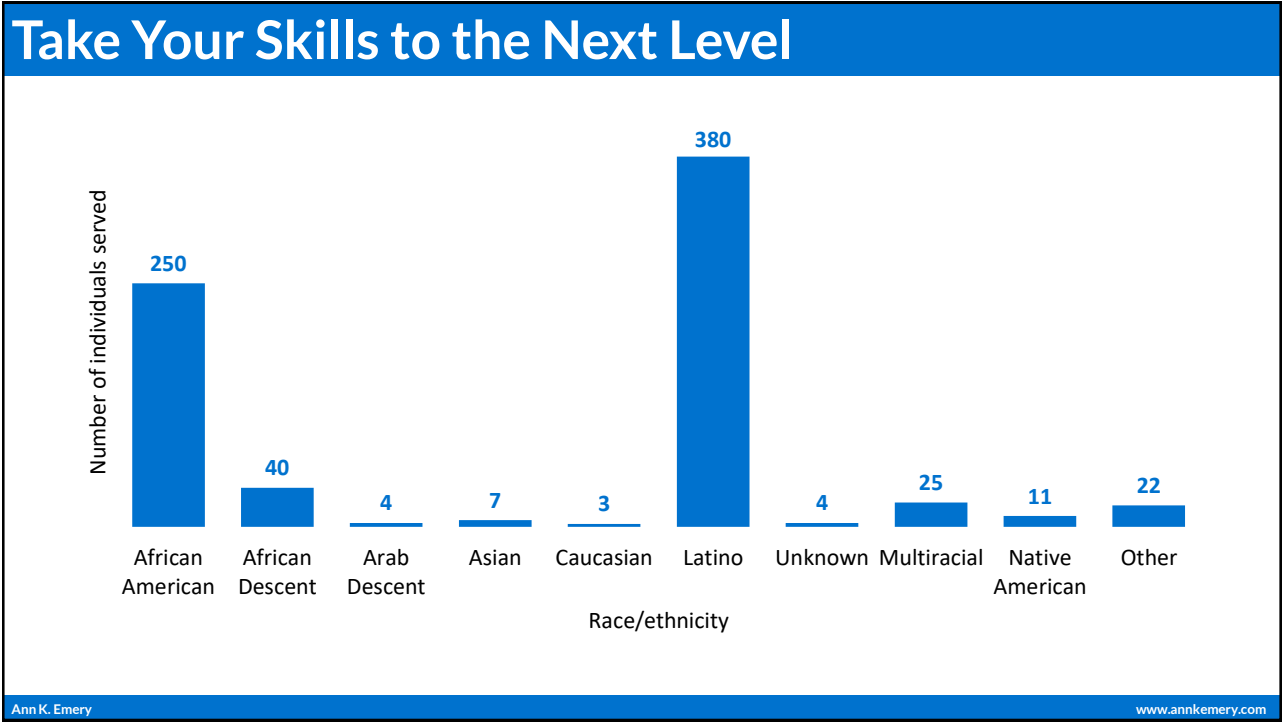
3/28/12

Take Your Skills to the Next Level

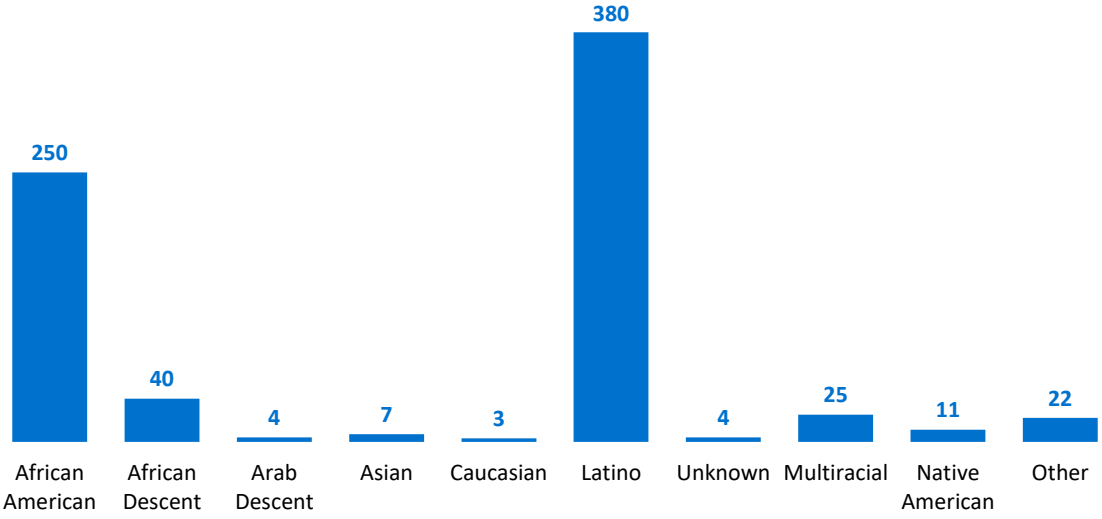


Take Your Skills to the Next Level

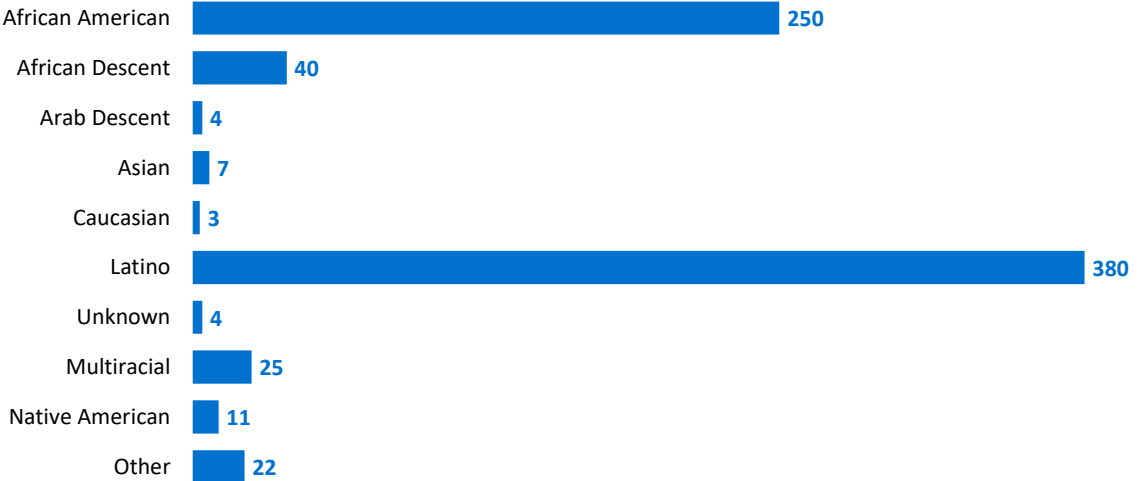




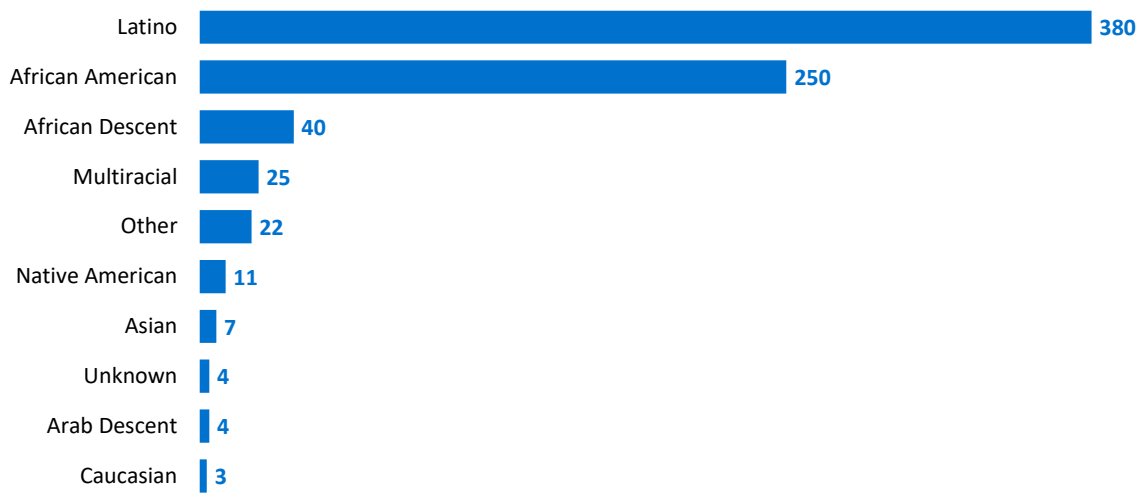
Take Your Skills to the Next Level



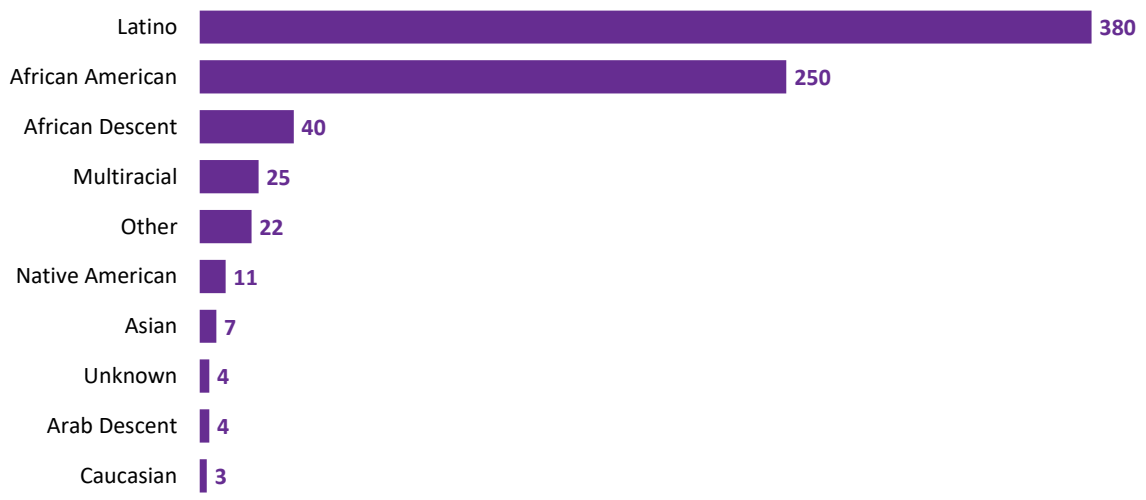
Take Your Skills to the Next Level



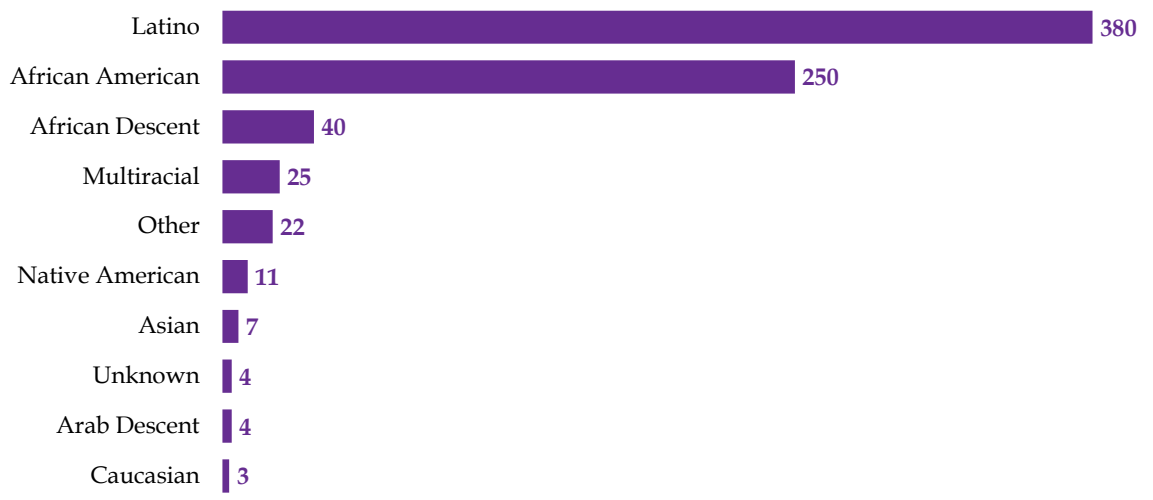
Take Your Skills to the Next Level



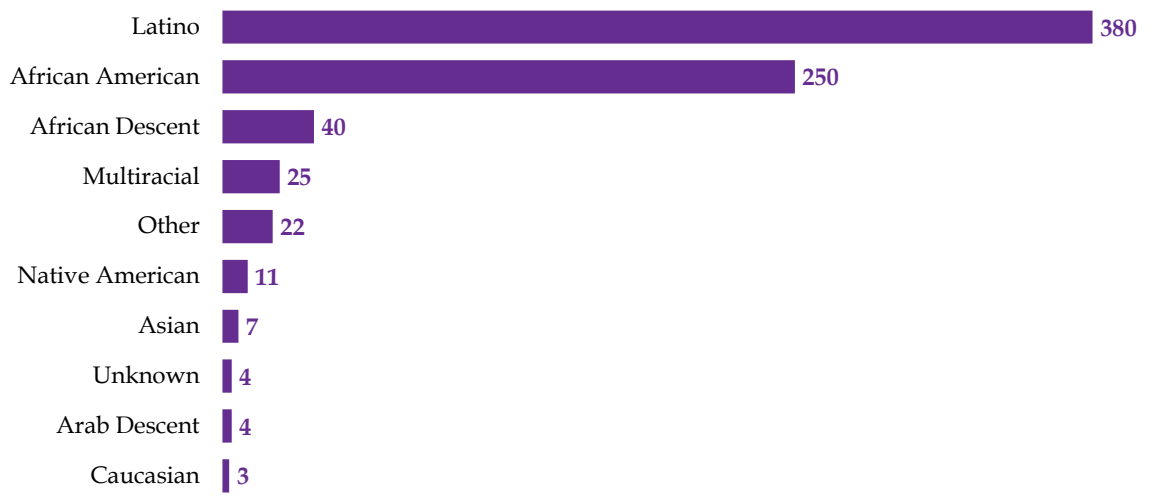
Take Your Skills to the Next Level



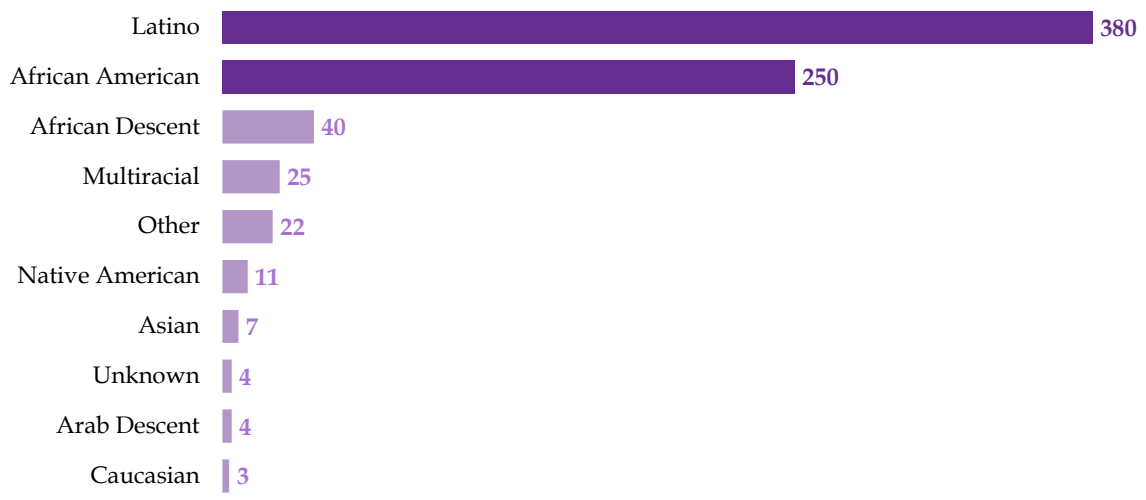
Take Your Skills to the Next Level



Our cultural diversity

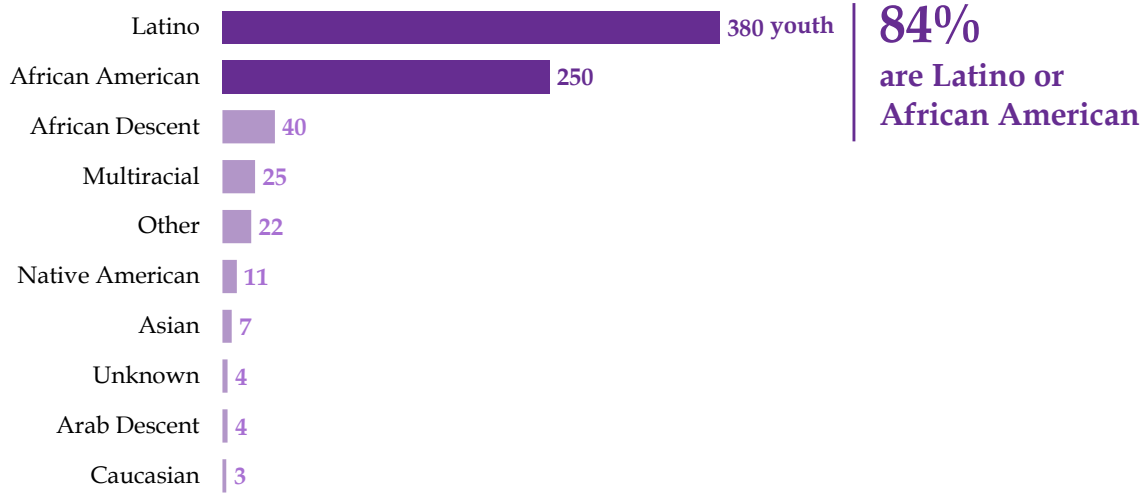


Our cultural diversity

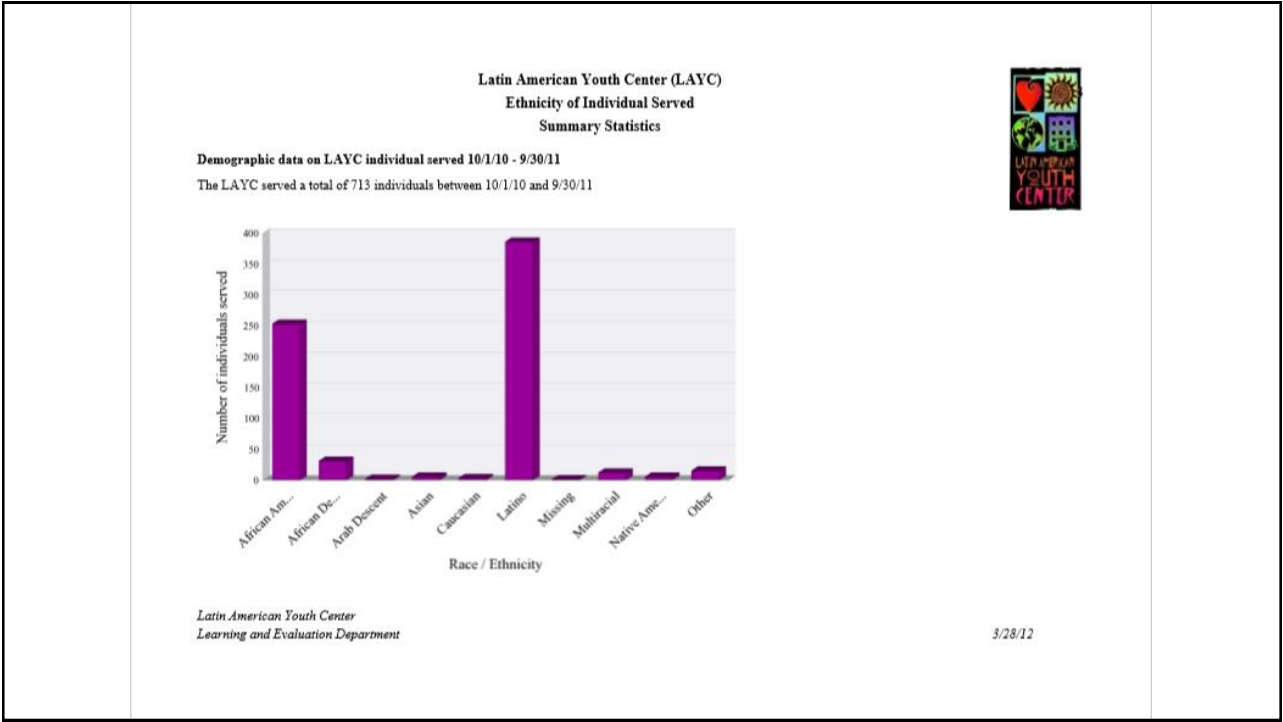


Organization Name www.organizationwebsite.com

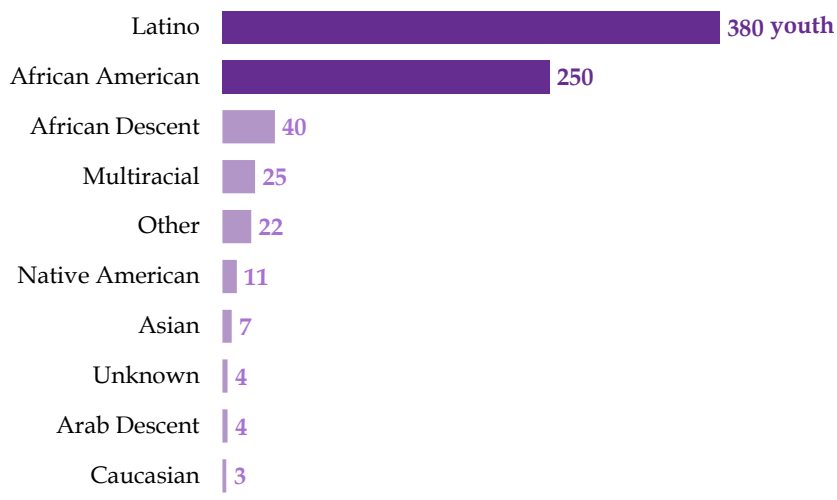
Our cultural diversity



Organization Name www.organizationwebsite.com



Our cultural diversity



84%
are Latino or African American

ANALYZE YOUR AUDIENCE

What's Worth Visualizing?



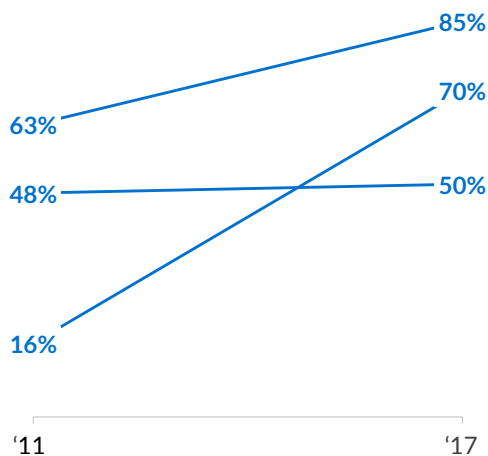
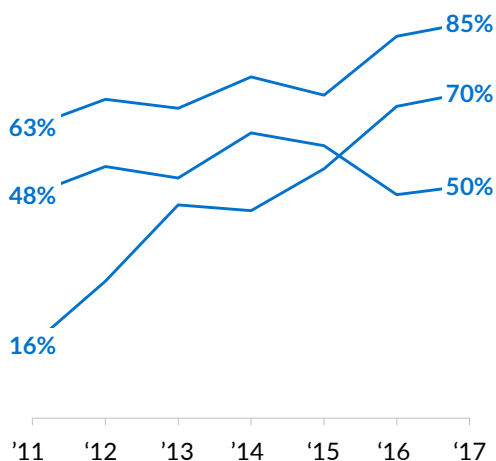
Ann K. Emery

www.annkemery.com

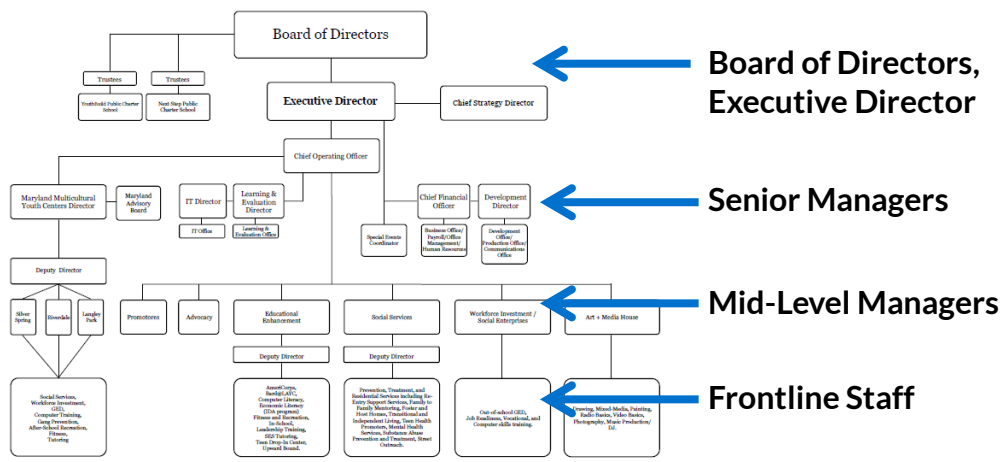
What's Worth Visualizing?

- ① What's going well? What's *not* going well?
- ② Did we reach our goals? Why or why not?
- ③ What increased over time? Decreased? Stayed the same?
- ④ What's surprising? What unfolded as expected?
- ⑤ Which information needs to be shared with others?
Who else needs to see this?

How Many Points in Time?



How Many Points in Time?



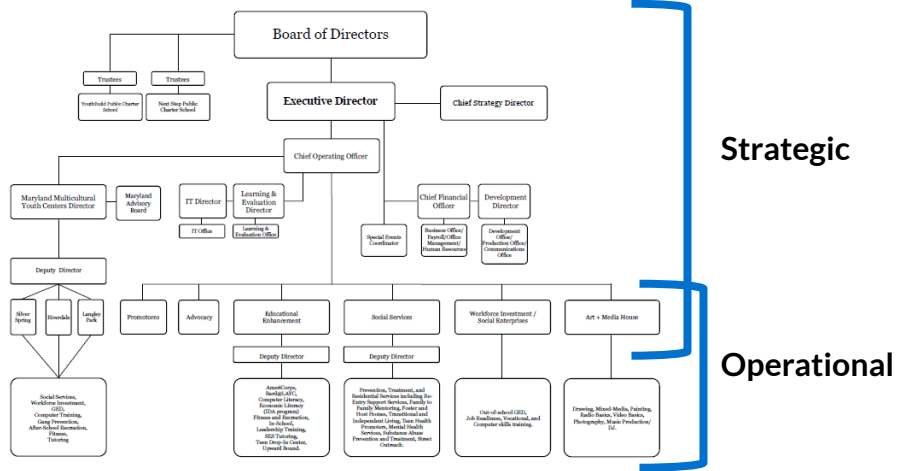
Board of Directors, Executive Director

Senior Managers

Mid-Level Managers

Frontline Staff

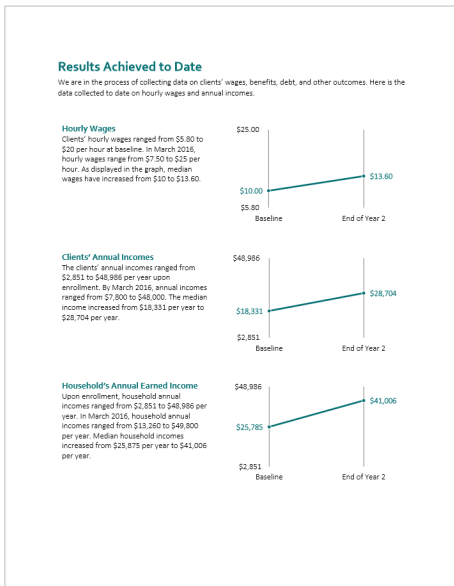
How Many Points in Time?



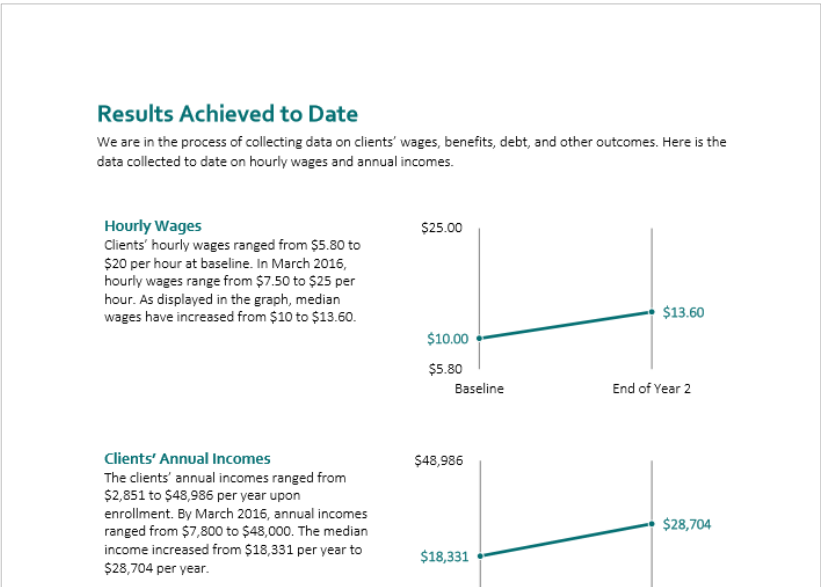
Strategic

Operational

How Many Points in Time?

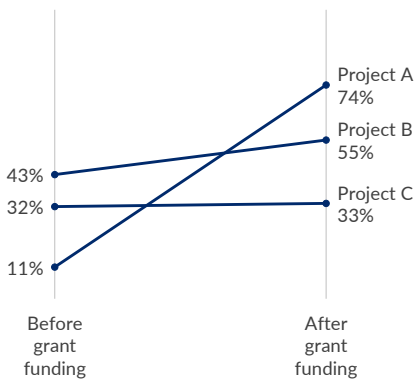


How Many Points in Time?



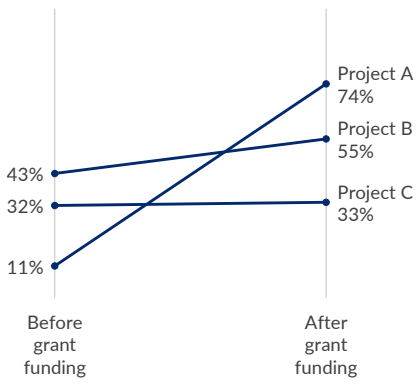
Are Viewers Expecting a Story?

Project results before and after implementation of grant

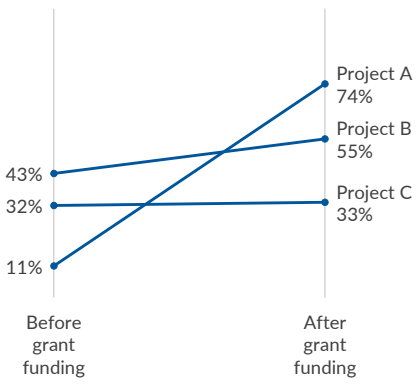


Are Viewers Expecting a Story?

Project results before and after implementation of grant

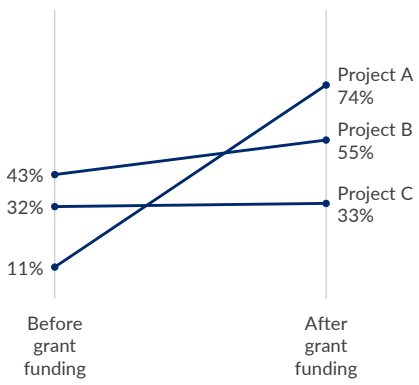


Project results before and after implementation of grant

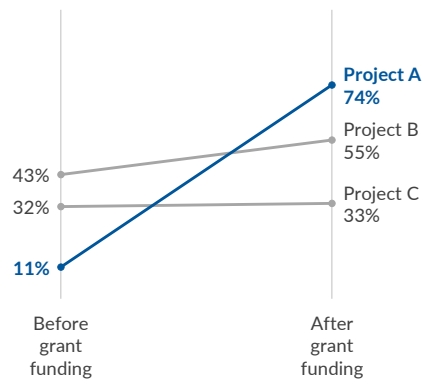


Are Viewers Expecting a Story?

Project results before and after implementation of grant

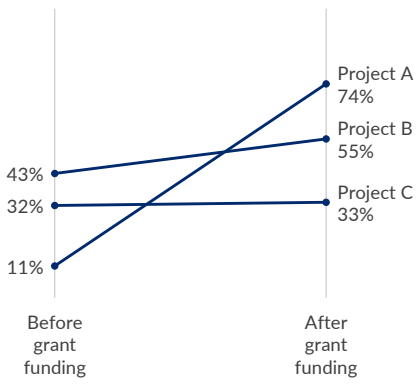


Project results before and after implementation of grant

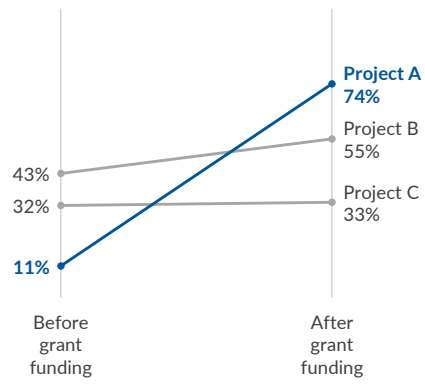


Are Viewers Expecting a Story?

Project results before and after implementation of grant



Project A had the greatest gains after the four-year grant funding

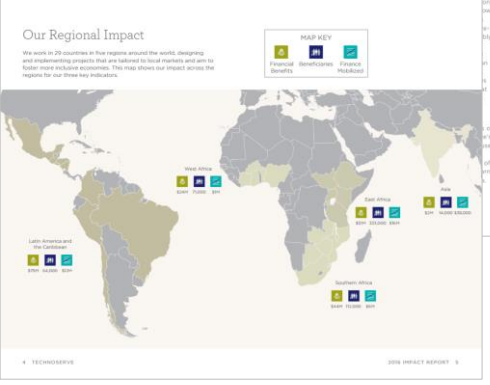


Reports

We Build Lasting Solutions

TechnoServe links people to the information, capital and markets they need to lift themselves out of poverty and create long-term prosperity for their families and communities. In designing our interventions for greatest impact, we strive to ensure that the farmers and businesses we work with continue to reap financial benefits long after a TechnoServe project ends.

U.S. M.I.S.S.I.O.N. We provide hands-on training in www.technoserve.org/mission



OUR WORK IMPROVES FARMERS' LIVELIHOODS

TechnoServe projects target crops for home and local consumption as well as crops intended for export markets, depending on our assessment of the local economy and needs. When farmers increase their yields for crops such as maize, they have more to eat and more to sell. Our impact through coffee, the extra revenue we help farmers generate allows farmers to purchase more food and make other investments in their well-being.

FINANCIAL BENEFITS IN 2016, SPLIT BY AMOUNT AND DISAGGREGATED BY SECTOR

A FARMER SUSTAINABLY INCREASES HIS INCOME

In northern Mozambique, coffee farmer Carlos Luciano joined TechnoServe's Financial program and learned good agronomy practices, such as pruning and clearing, that have increased his crop productivity. We connected him with agricultural inputs so he could grow and provide seedlings to expand coffee farms in the community. The program also provides business training and helped Carlos organize with other farmers to aggregate his harvests and sell at higher prices.

After the program ends, Carlos will continue to sell as part of his farmer group. The improved farming practices he has adopted will help his coffee trees thrive, and in three years his seedlings will have helped his production from being by a sustained increase in yields and income for years to come.

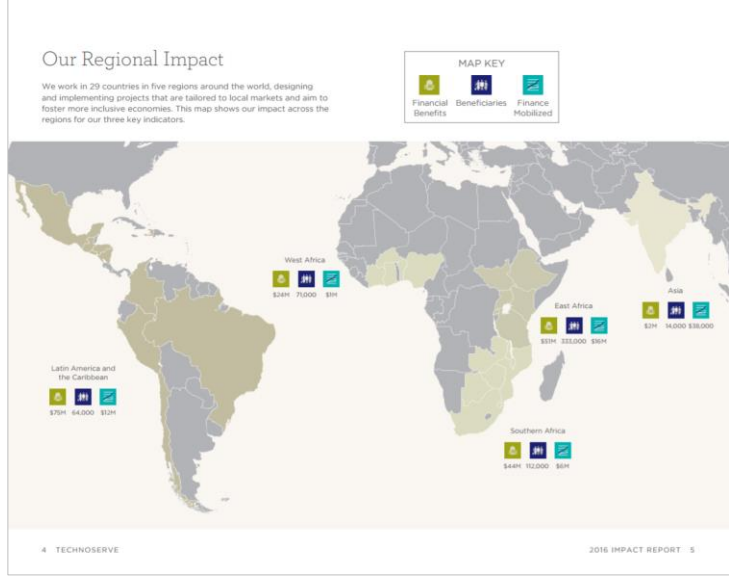
2016 IMPACT REPORT 3

TechnoServe, <http://www.technoserve.org/blog/lasting-solutions-2016-impact-report>

Ann K. Emery

www.annkemery.com

Reports



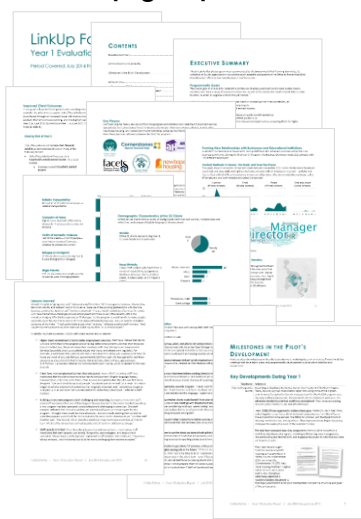
TechnoServe, <http://www.technoserve.org/blog/lasting-solutions-2016-impact-report>

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The 30-3-1 Approach

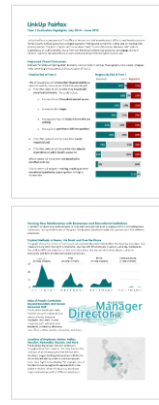
30 page report



3 page summary



1 page summary



The 30-3-1 Approach

This is a nice 200 page comprehensive report.
 Now can you cut it down to 2 pages? Maybe just take away the methods, evidence and findings?



@clysy

freshspectrum.com

Images for Social Media



Pew Internet @pewinternet · Feb 27
67% of internet users say online comms w/ family/friends has strengthened those relationships pewrsr.ch/1mfExH pic.twitter.com/CjGuBvi2MH



RETWEETS **65** FAVORITES **24**



12:37 PM - 27 Feb 2014 · Details

Flag media

GIFs



LA Times, <http://www.latimes.com/la-ca-g-rise-of-californias-no-party-voter-20141026-htm1story.html>

GIFs



LA Times, <http://www.latimes.com/local/california/la-me-g-drought-drawdowns-and-death-of-the-salton-sea-20141021-hm1story.html>

Ann K. Emery

www.annkemery.com

GIFs



Pew Research Center, <http://www.pewresearch.org/fact-tank/2017/03/08/women-leaders-around-the-world/>

Ann K. Emery

www.annkemery.com

ANALYZE YOUR DATA

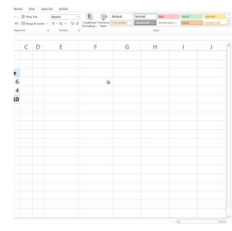
Analyze Your Data

ANN K. EMERY

BLOG TOPICS TOOLS TRAINING DESIGN SAY HELLO

ARCHIVE for Analyzing Data

JUL 19 2016 6 COMMENTS

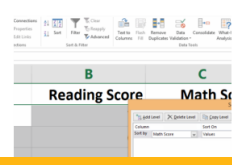


SAVE TIME AND ENERGY WITH PIVOT TABLES

Pivot tables are the fastest, easiest way to make sense of your data, and they're easier than you think. In this post, I'll show you how to insert a pivot table and then drag and drop variables to find patterns in your spreadsheet. Step 1:...

[Continue reading -->](#)

DEC 29 2015



SORTING AND FILTERING YOUR SPREADSHEETS

Have a list of words that need some alphabetizing? Have a list of numbers that you want to arrange from least to greatest or greatest to least? Rather than painstakingly rearranging your rows by hand, let Excel's Sorting and Filtering features do the heavy lifting...

[Continue reading -->](#)

CHOOSE THE RIGHT CHART

Choose the Right Chart

YOUR GUIDE TO GREAT GRAPHS ANN K. EMERY WWW.ANNKEMERY.COM

EXPLOATORY

- Sketching** Thank me later
- Heat Tables** Color-coding
- Data Bars** Within-cell bars
- Spark Lines** Mini trendlines
- Spark Bars** Mini columns

PART - WHOLE

- Pie/Donut** 2-3 slices max!
- Stacked** Pie alternative
- Diverging** Focus on poles
- Waffle** aka Square pies
- Icon Array** aka Pictographs

COMPARISONS

- Bar/Column** The trusty steed
- Lollipop** Minimalist bar
- Clustered** Two pairs, max!
- Dot** Minimalist cluster
- Multiples** Disaggregated
- Area** Comparisons based on area
- Nested Area** aka Tree

PROGRESS

- Overlapping** When every bar has a different goal
- Target Line** When every bar has the same goal

MAPS

- Choropleth** aka Heat Map
- Tile or Hex** Equal-sized squares/hexagons
- Tile Trendline** Geographical patterns over time
- Network** Connections between people

DISTRIBUTION

- Histogram** Ordinal variables (e.g., age ranges)
- Pyramid** Ordinal & nominal (age & gender)
- Scatter** Correlations (x & y)
- Bubble** Correlations (x, y, & z)
- Box Plot** Min, Q1 median, Q3, & max

BEFORE/AFTER

- Slope** Focus on the slope of the line
- Dot** Focus on distance between the dots
- Stacked** Part-to-whole
- Waterfall** How parts add up to the whole
- Deviation** Just display the # or % differences

3+ POINTS IN TIME

- Line** The classic choice
- Multiples** Separate the spaghetti
- Stacked Bar** Part-to-whole
- Stacked Area** Part-to-whole
- Target Line** Goal is light
- Estimation** Guess is dotted
- Fan** Guess is shaded
- Calendar** Milestones
- Timeline** Try words & icons

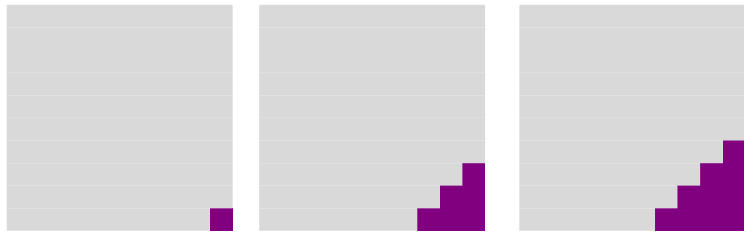
Square Pie

In ABC County last year...

...1%
of Group A

...6%
of Group B

...10% of
Group C



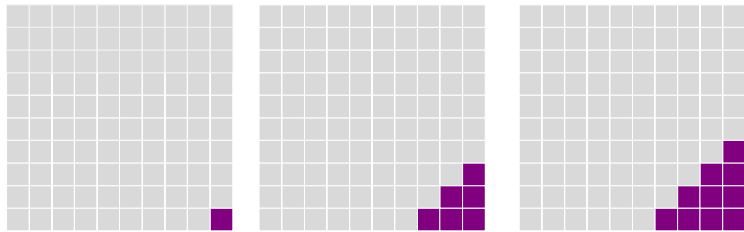
Waffle

In ABC County last year...

...1 person
from Group A

...6 people
from Group B

...10 people
From Group C



Icon Array

The deadliest animals.

Average annual animal-caused fatalities in the U.S., 2001 to 2013

Sharks kill 1 person per year. 

Alligators kill 1 person per year. 

Bears kill 1 person per year. 

Venomous snakes and lizards kill 6 people per year. 

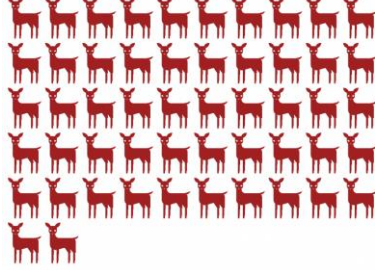
Spiders kill 7 people per year. 

Non-venomous arthropods kill 9 people per year. 

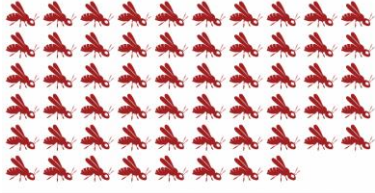
Cows kill 20 people per year. 

Dogs kill 28 people per year. 

Other mammals kill 52 people per year.



Bees, wasps and hornets kill 58 people per year.



WAPO.ST/WONKBLOG
Sources: CDC reports, CDC WONDER database, Wikipedia, Florida Museum of Natural History

<http://www.washingtonpost.com/blogs/wonkblog/wp/2015/06/16/chart-the-animals-that-are-most-likely-to-kill-you-this-summer/>

Ann K. Emery

www.annkemery.com

Icon Array

NFL survivor Kyle Shanahan recalls D.C. setbacks as he takes the helm of the 49ers **SPORTS**



Mail wars if the U.S. Postal Service is losing money, why is it cutting these deals? **BUSINESS**



Reading into the resistance Political reflections from both sides of the aisle **OUTLOOK**

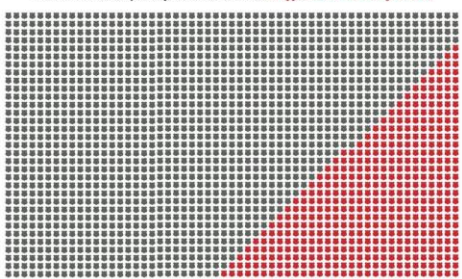
SAVE \$408 SUGAR COUPON QUALITY

The Washington Post

Mostly sunny 84/71 • Tomorrow: Thunderstorms 80/68 • CYR Democracy Dies in Darkness BUNDAY, AUGUST 6, 2017 \$3.50

FIRED/REHIRED

Since 2006, at least 1,881 officers have been dismissed from 37 of the nation's largest police departments for behavior that betrayed the public's trust. Of those, 451 appealed and won their jobs back.



Afghan allies defend general

TRUMPS CRITICISM ALARMS KABUL

Strategy plan delayed as country's turmoil mounts

BY FANILIA COONABLE

KABUL — Afghan allies dismayed by widespread reports that President Trump has threatened to fire Gen. John W. Nicholson Jr., the highly regarded U.S. military commander in the war-torn country and that Trump has also ordered drawing a new military and political strategy, Afghan allies have swayed attention for the past few months.

Nicholson, 61, the top U.S. military official in Afghanistan for the past 18 months, has become the lion-hearted hero of Washington here, working closely with Afghan military and civilian officials, and tacitly supporting expanded U.S. military engagement, while the Taliban and other insurgents continue aggressive attacks across the country.

Done with non-U.S. service members killed in the past week,

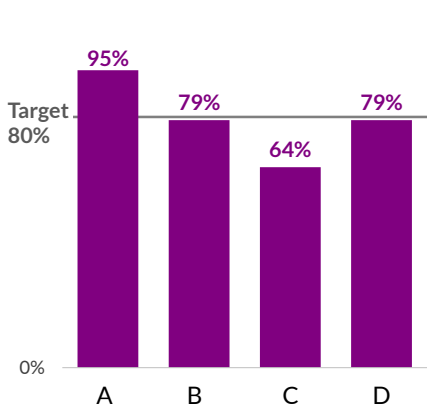
Washington Post, Fired/Rehired, https://www.washingtonpost.com/graphics/2017/investigations/police-fired-rehired/?utm_term=.03ad8d0979fc

Ann K. Emery

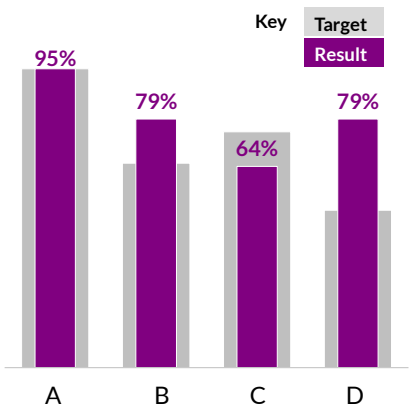
www.annkemery.com

Progress Towards a Goal

When every indicator has the same target:



When every indicator has a different target:

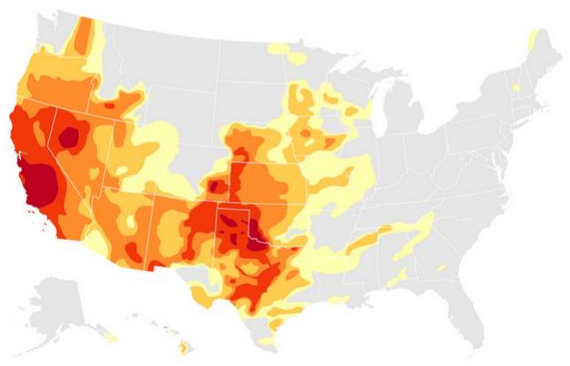


Heat Maps

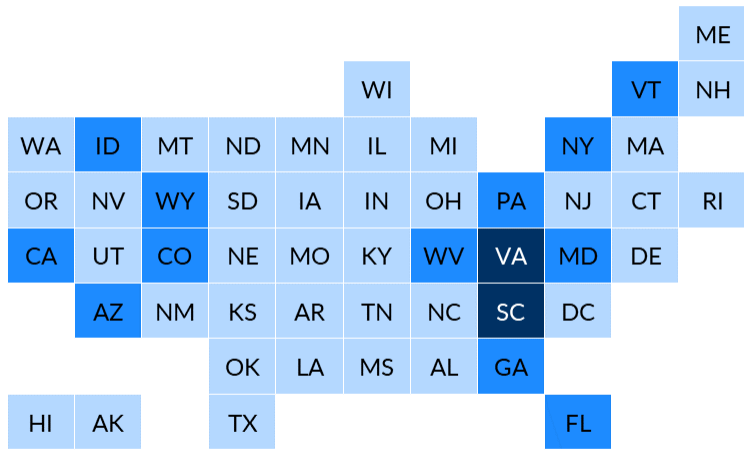


Mapping the spreading drought across the U.S. nyti.ms/1rRxQV5

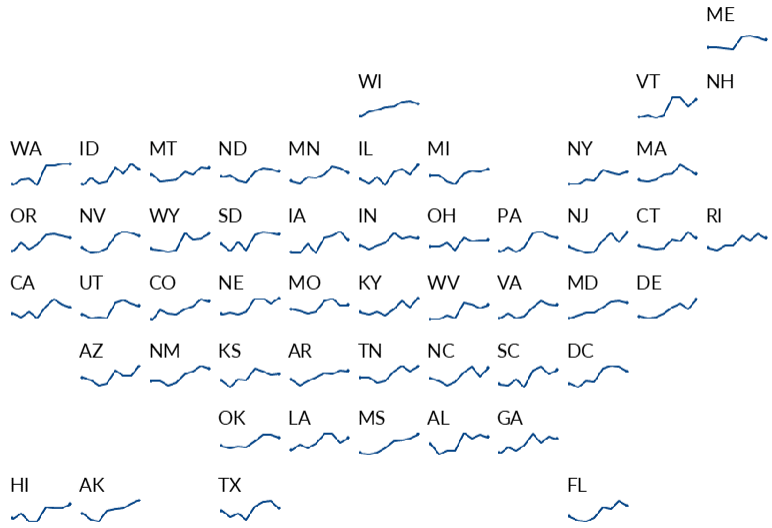
Reply Retweet Favorited More



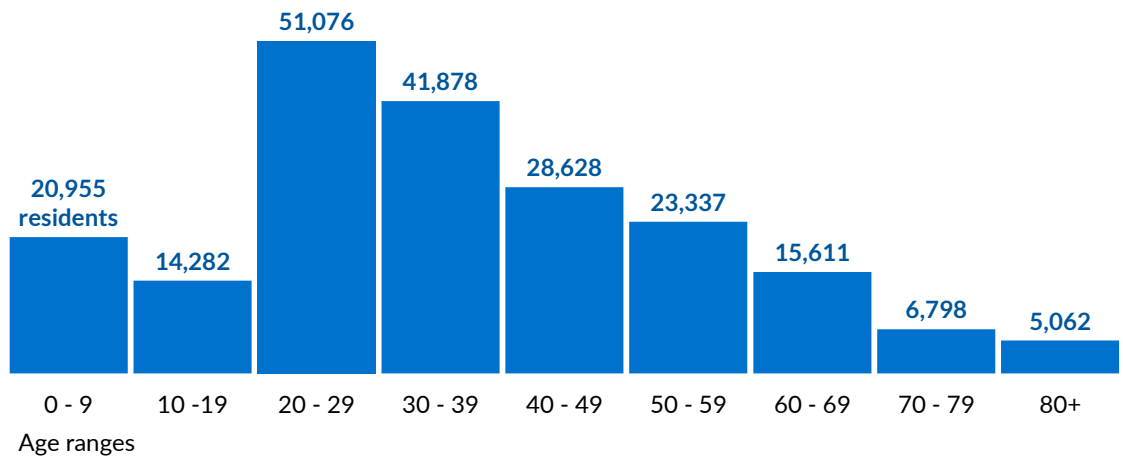
Tile Grid Maps



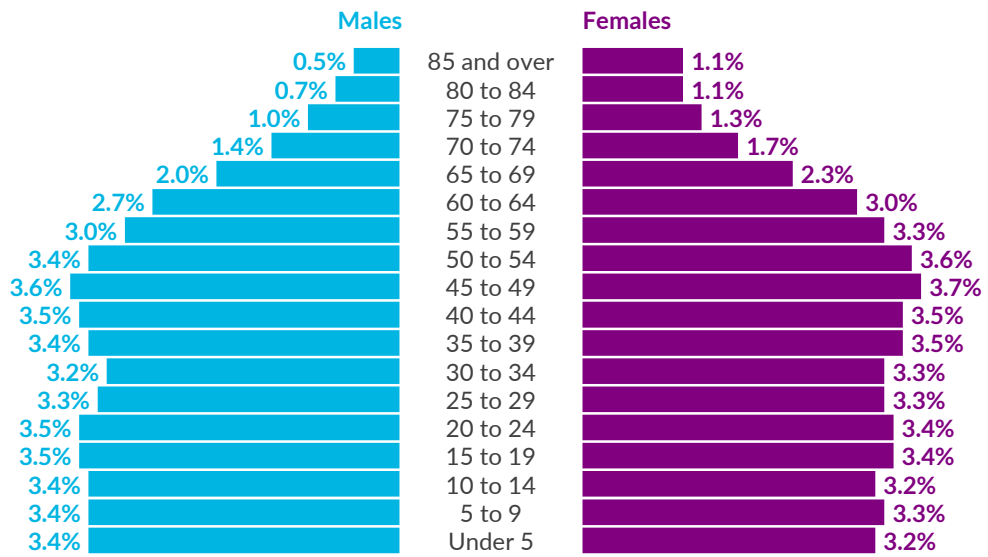
Tile Grid Trendline Maps



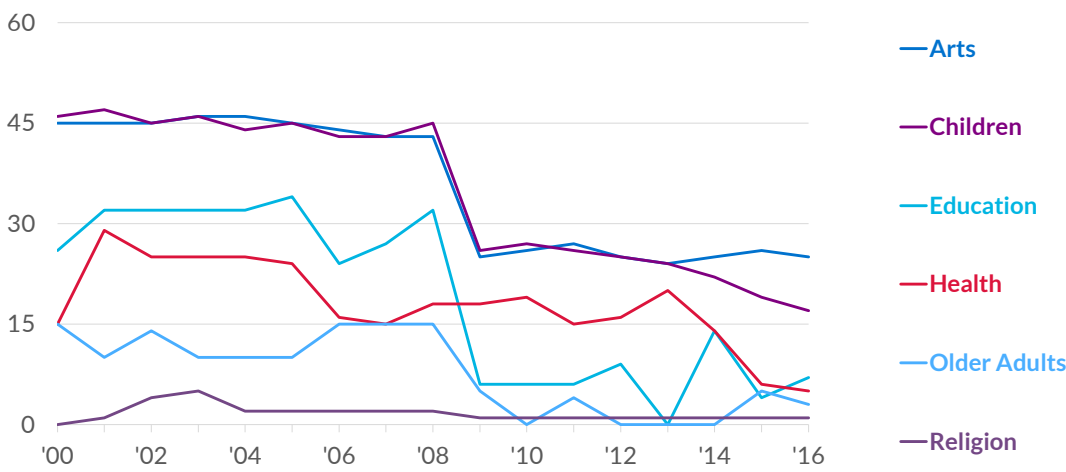
Histograms



Population Pyramids

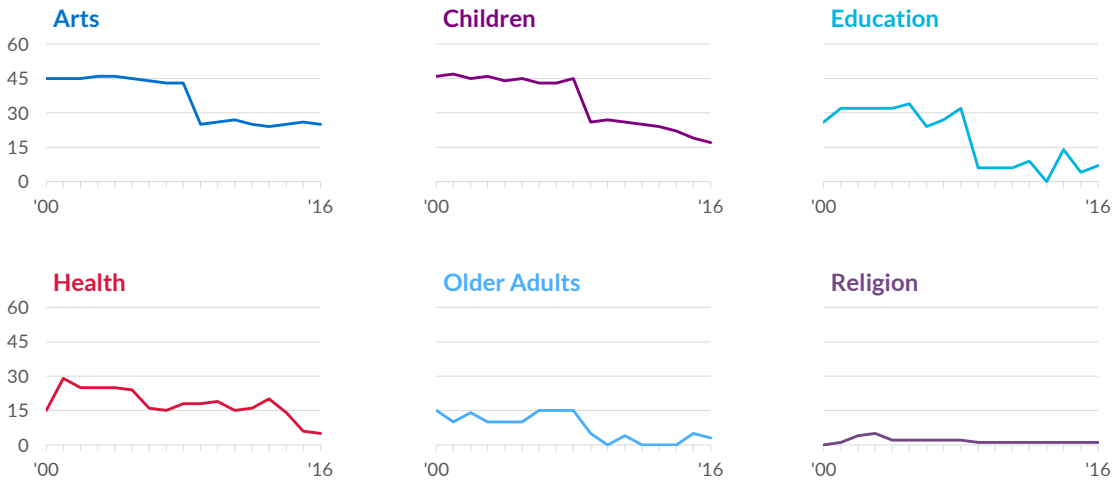


Spaghetti Line...



Ann K. Emery www.annkemery.com

...into Small Multiples Lines



Ann K. Emery www.annkemery.com

Website **AnnKEmery.com**

Overlapping Bars Target Lines on Bar Charts Deviation Graphs

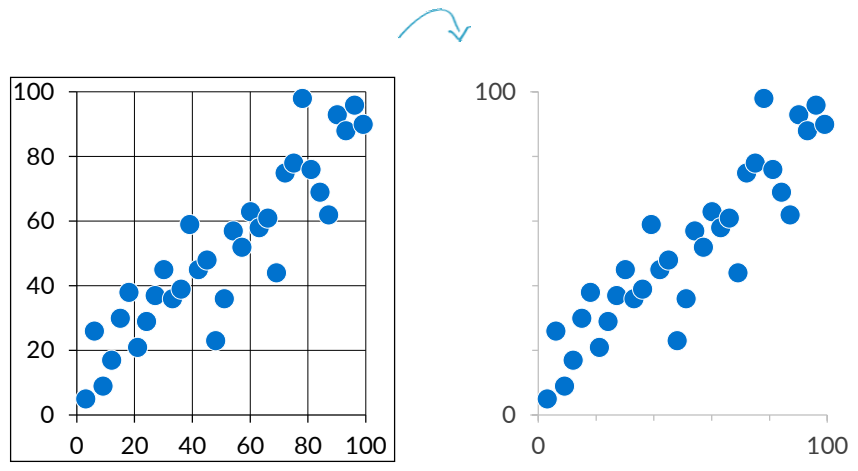
Tile Grid Trendline Maps Tile Grid Maps Heat Tables

Tree Map Waffle Charts Social Network Map

Ann K. Emery www.annkemery.com

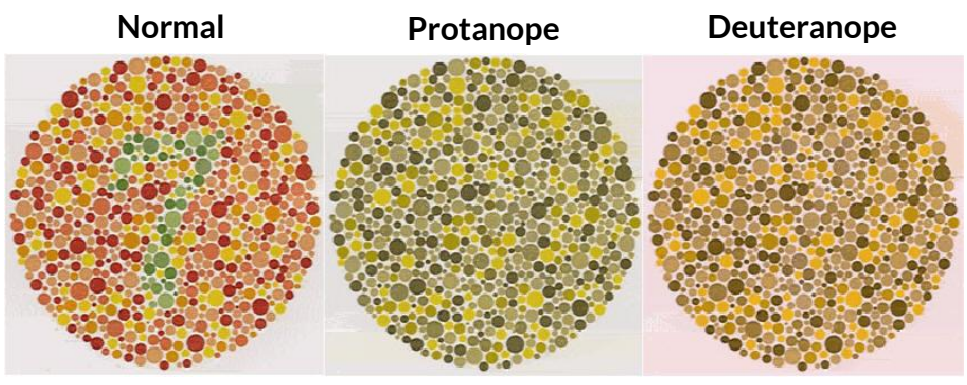
DECLUTTER

Remove or Lighten Unnecessary Ink



CLARIFY WITH COLOR

Ensure Legibility for Colorblindness



Color Vision Testing, <http://colorvisiontesting.com/what%20colorblind%20people%20see.htm>

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Ensure Legibility for Colorblindness

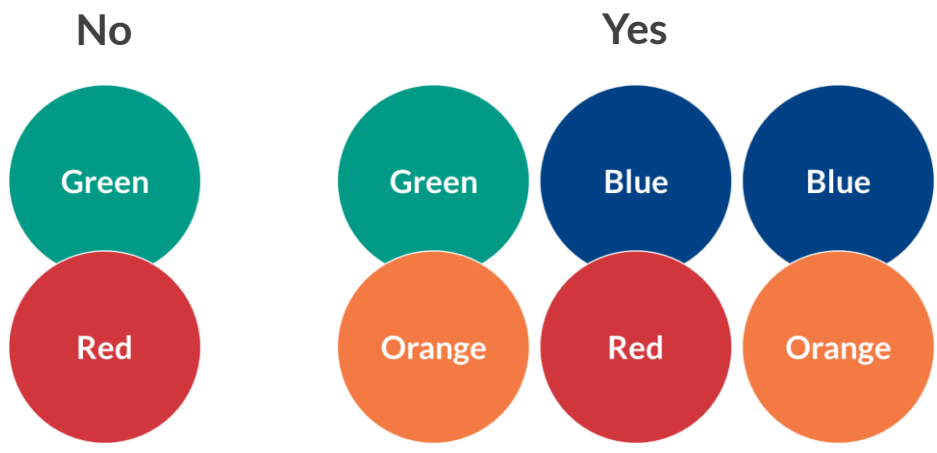


Color Vision Testing, <http://colorvisiontesting.com/what%20colorblind%20people%20see.htm>

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Ensure Legibility for Colorblindness



Ensure Legibility for Colorblindness

The screenshot shows the 'Coblindor Color Blindness Simulator' website. At the top, there's a navigation bar with 'Home', 'CVD Essentials', 'Color Blindness Tests', 'Color Tools', and 'Contact'. The main content area features the title 'Coblindor — Color Blindness Simulator' and a search bar. Below the title, there's a section for 'FREE Color Blind Check' with a 'Red Green Color Blindness Vision Test' button. A 'CVD Categories' section lists 'Academic', 'Children', 'News', 'People', 'Pics', 'Professions', 'Publications', 'Stories', 'Tests', 'Thoughts', 'Tools', and 'Web'. At the bottom, there's a footer with 'Ann K. Emery' and 'www.annkemery.com'. The simulator interface includes a color calibration bar, a search bar, and a 'Vision Test' button. Below the main content, there's a section for 'CVD Categories' with various links. At the bottom, there's a footer with 'Ann K. Emery' and 'www.annkemery.com'. The simulator interface includes a color calibration bar, a search bar, and a 'Vision Test' button. Below the main content, there's a section for 'CVD Categories' with various links. At the bottom, there's a footer with 'Ann K. Emery' and 'www.annkemery.com'. The simulator interface includes a color calibration bar, a search bar, and a 'Vision Test' button.

Ensure Legibility for Colorblindness

Ensure Legibility for Colorblindness

Test Your Colors

- Purple 120, 29, 125
- Green 0, 133, 62
- Blue 126, 175, 204
- Orange 235, 136, 28
- Yellow 255, 222, 107

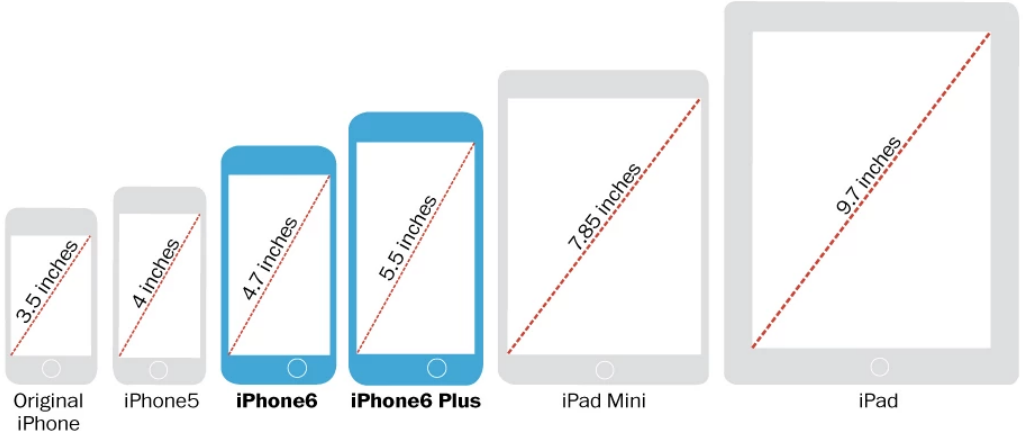
Test Your Colors

- Purple 120, 29, 125
- Green 0, 133, 62
- Blue 126, 175, 204
- Orange 235, 136, 28
- Yellow 255, 222, 107

Test Your Colors

Purple	120, 29, 125
Green	0, 133, 62
Blue	126, 175, 204
Orange	235, 136, 28
Yellow	255, 222, 107

Saturate to Draw Attention



 **Washington Post** @washingtonpost · Sep 14
 Just how much iPhone do you really need? wapo.st/Xi0kgi pic.twitter.com/FeaMpbjg26
 Reply Retweet Favorited

Flag media

Saturate to Draw Attention

Views in:	Most Hardworking	Most Trustworthy	Least Hardworking	Least Trustworthy
Britain	Germany	Germany	Greece	France
France	Germany	Germany	Italy	Greece
Germany	Germany	Germany	Greece	Greece/Italy
Italy	Germany	Germany	Romania	Italy
Spain	Germany	Germany	Greece	Italy
Greece	Greece	Greece	Italy	Germany
Poland	Germany	Germany	Greece	Germany
Czech Rep.	Germany	Germany	Greece	Greece

Pew Research Center, <https://twitter.com/pewglobal/status/615519689901477888>

Ann K. Emery

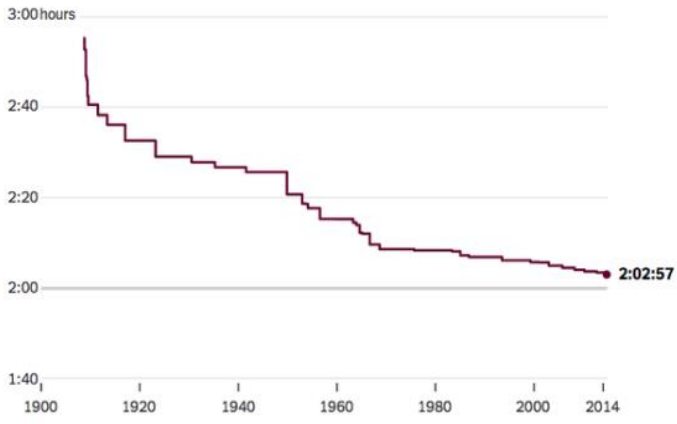
www.annkemery.com

CLARIFY WITH TEXT

State the Story in the Title

The Marathon World Record Keeps Falling

How long will it take until someone runs below two hours?



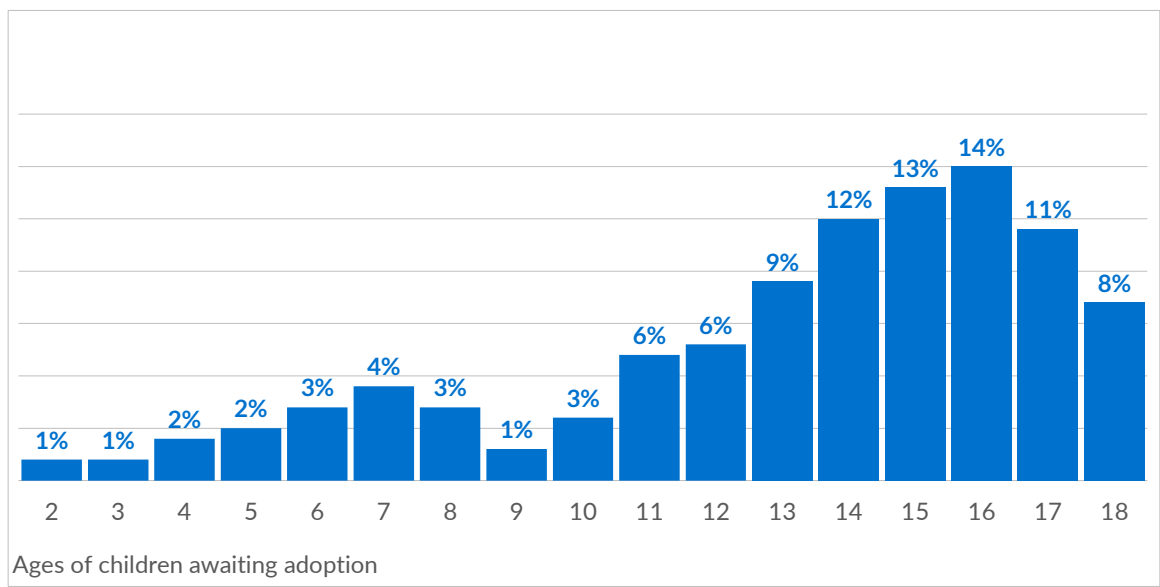
Source: I.A.A.F. Statistics Handbook

New York Times, <http://www.nytimes.com/2014/09/30/upshot/forecasting-the-fall-of-the-two-hour-marathon.html?abt=0002&abg=1>

Ann K. Emery

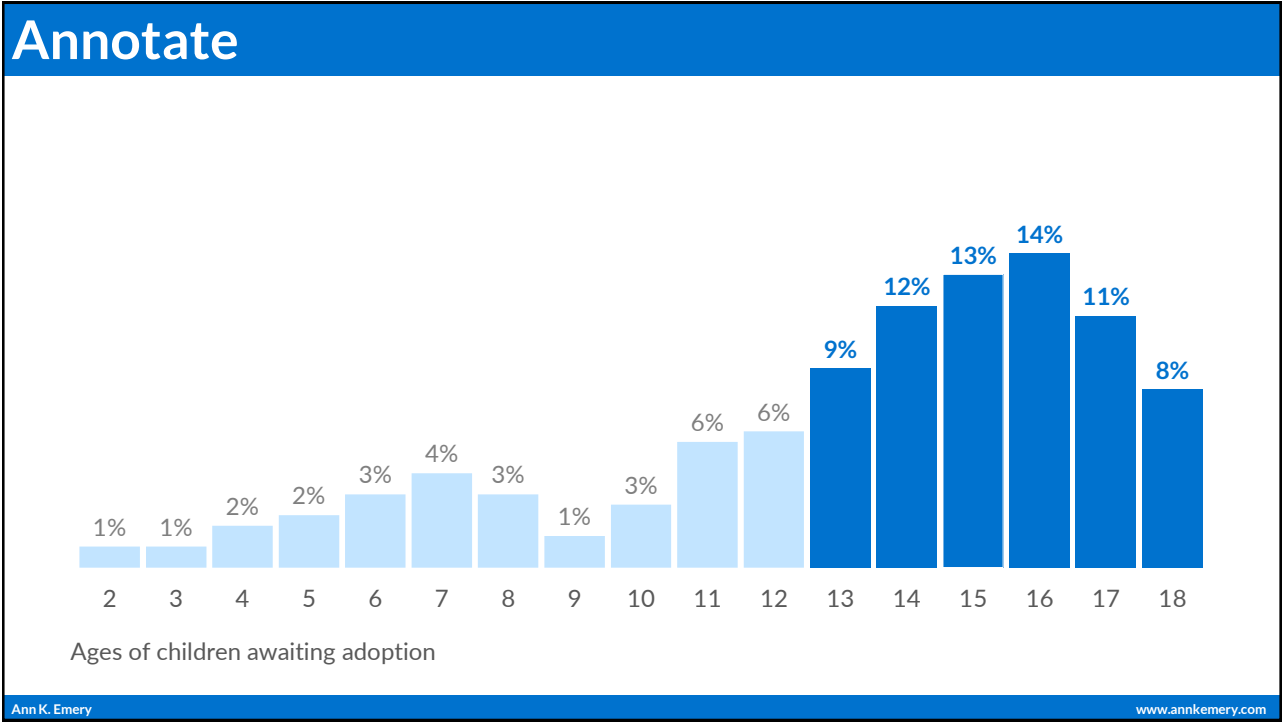
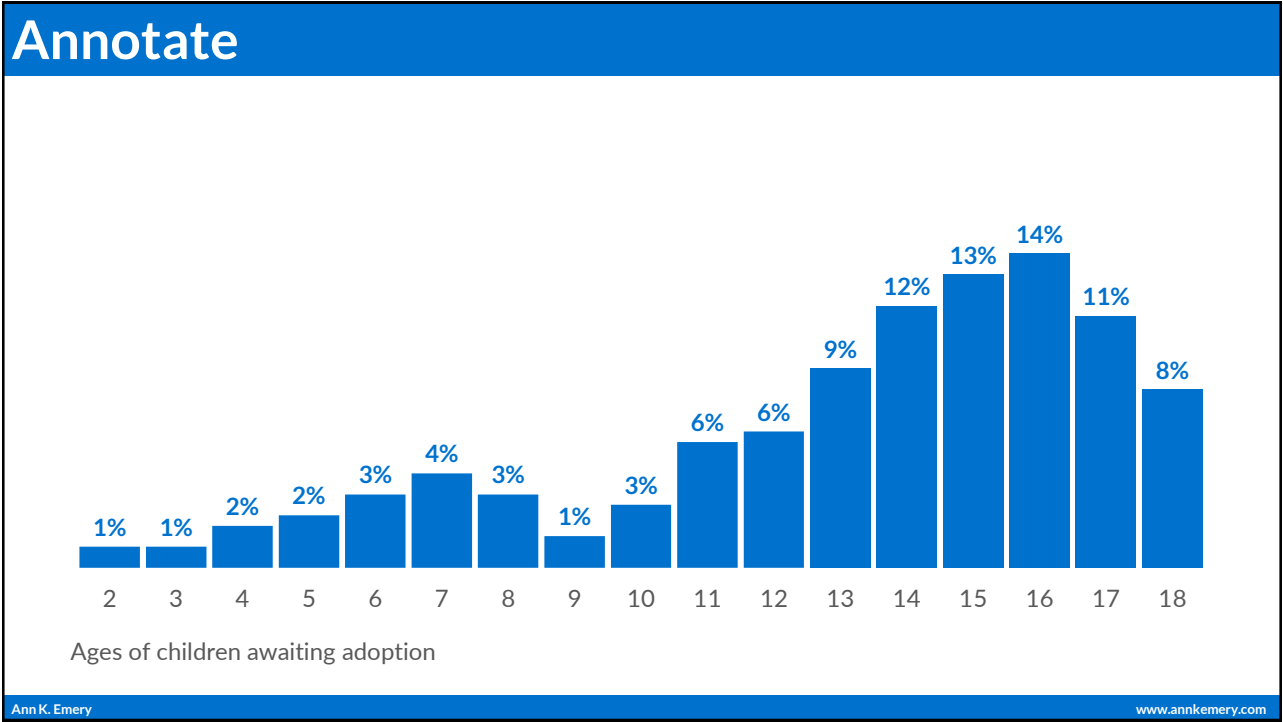
www.annkemery.com

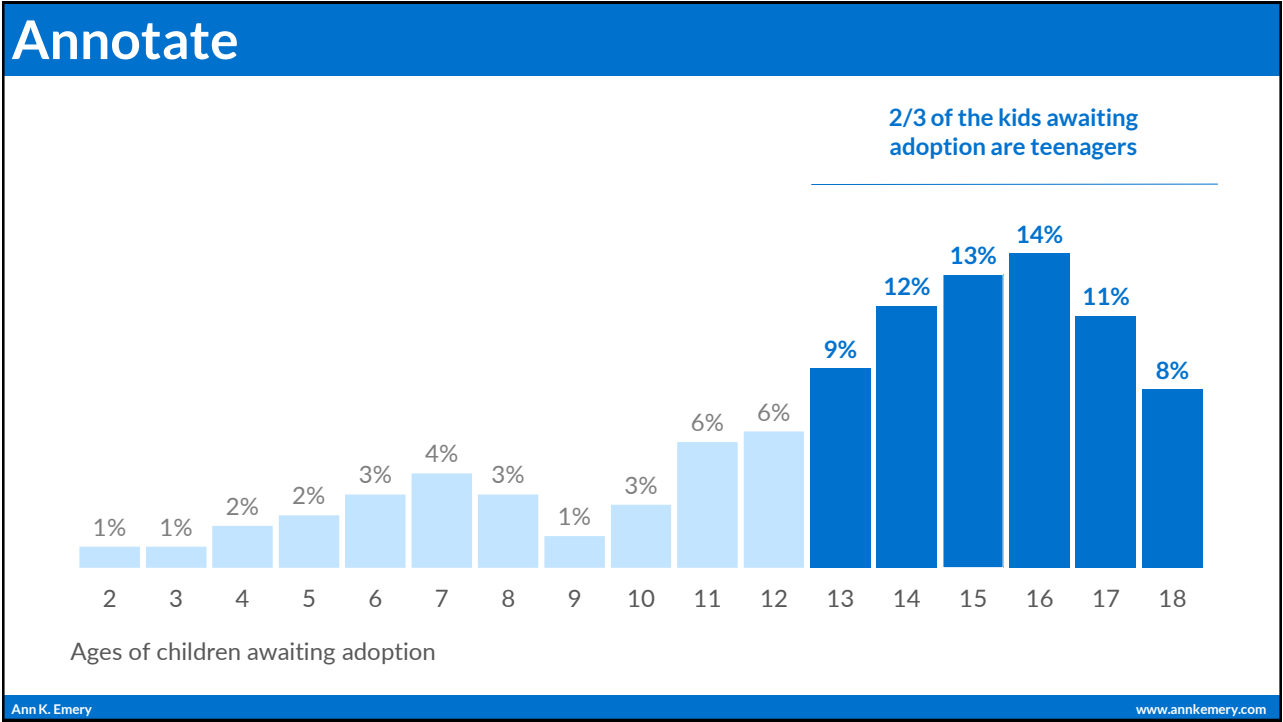
Annotate



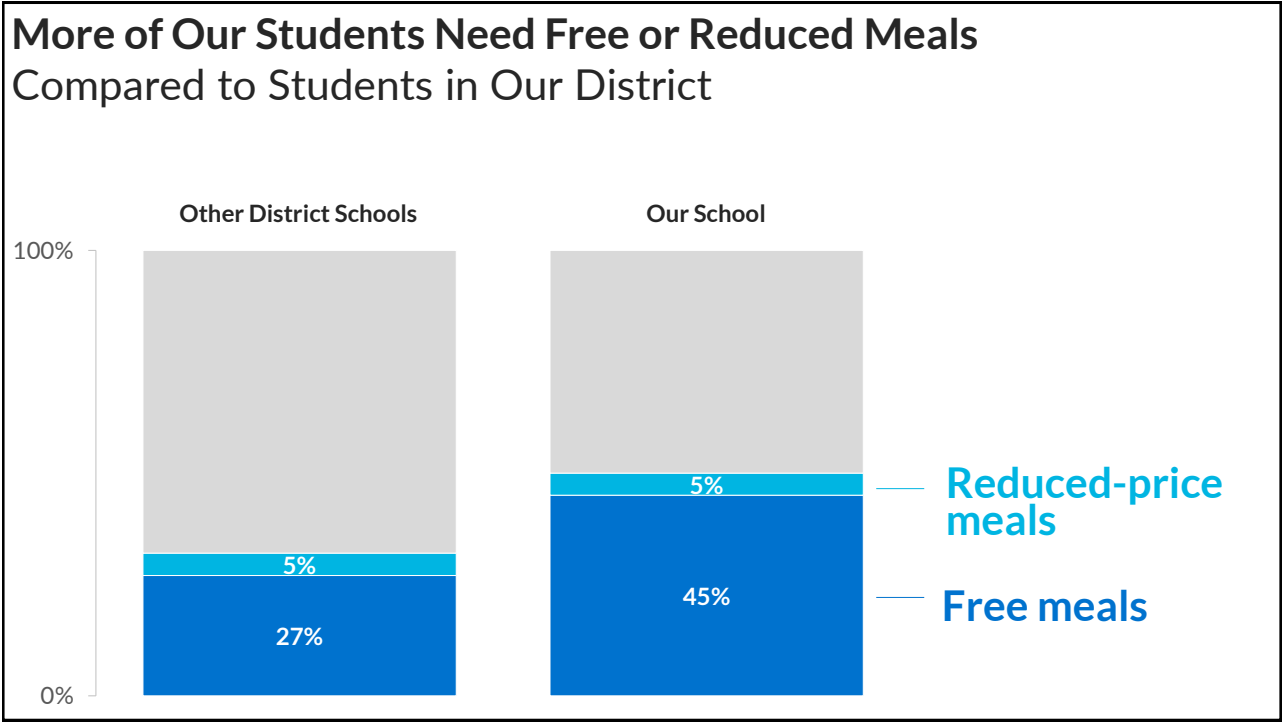
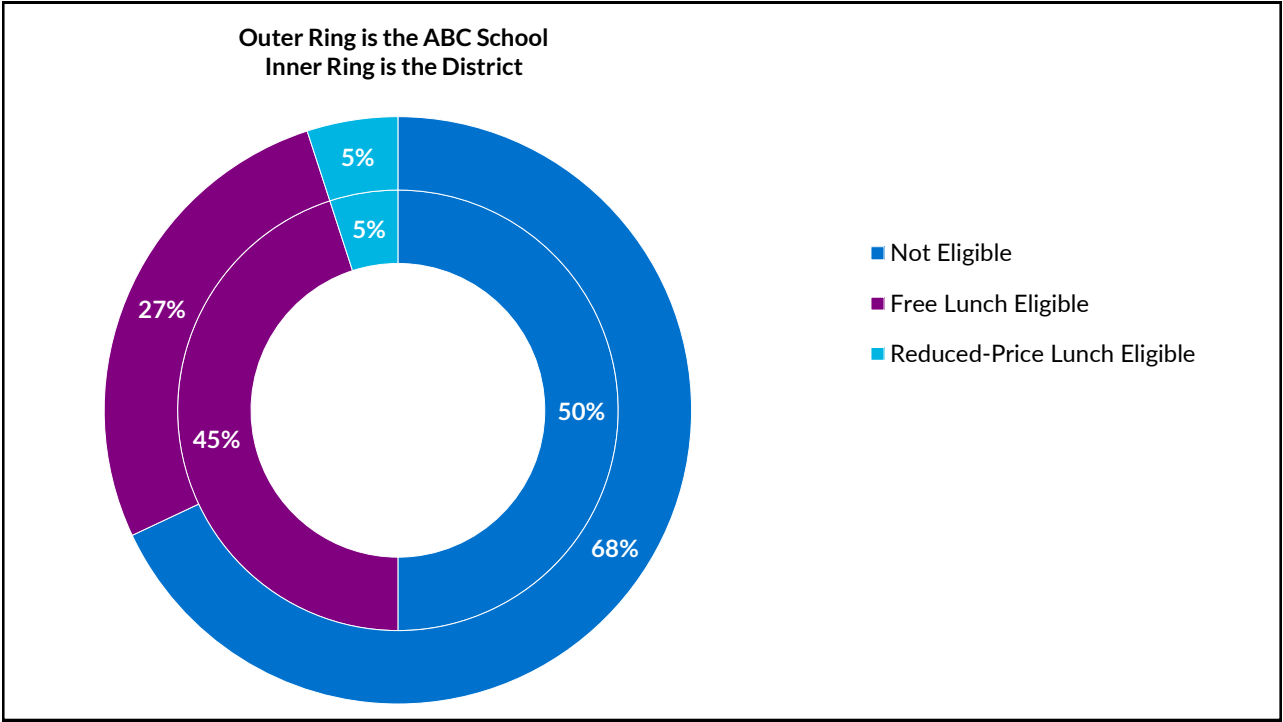
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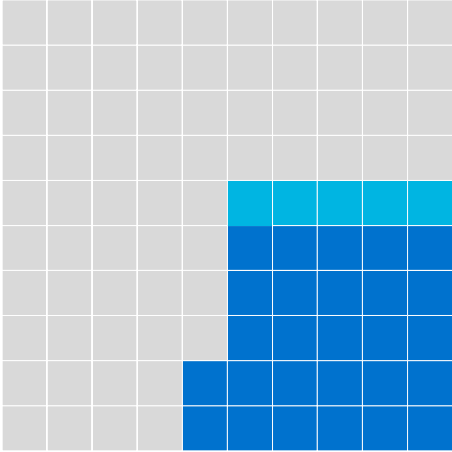




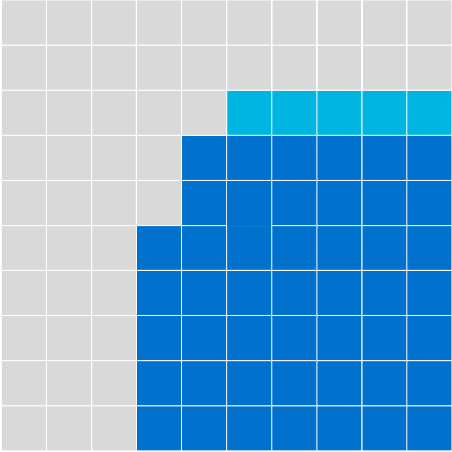
BEFORE/AFTER MAKEOVERS



In our school **district**,
32% of students
qualify for **free (27%)** or
reduced-price lunch (5%).

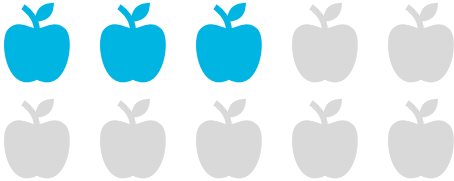


In the **ABC School**,
50% of students
qualify for **free (45%)** or
reduced-price lunch (5%).



3 in 10

students in our **district** qualify
for free or reduced lunch



5 in 10

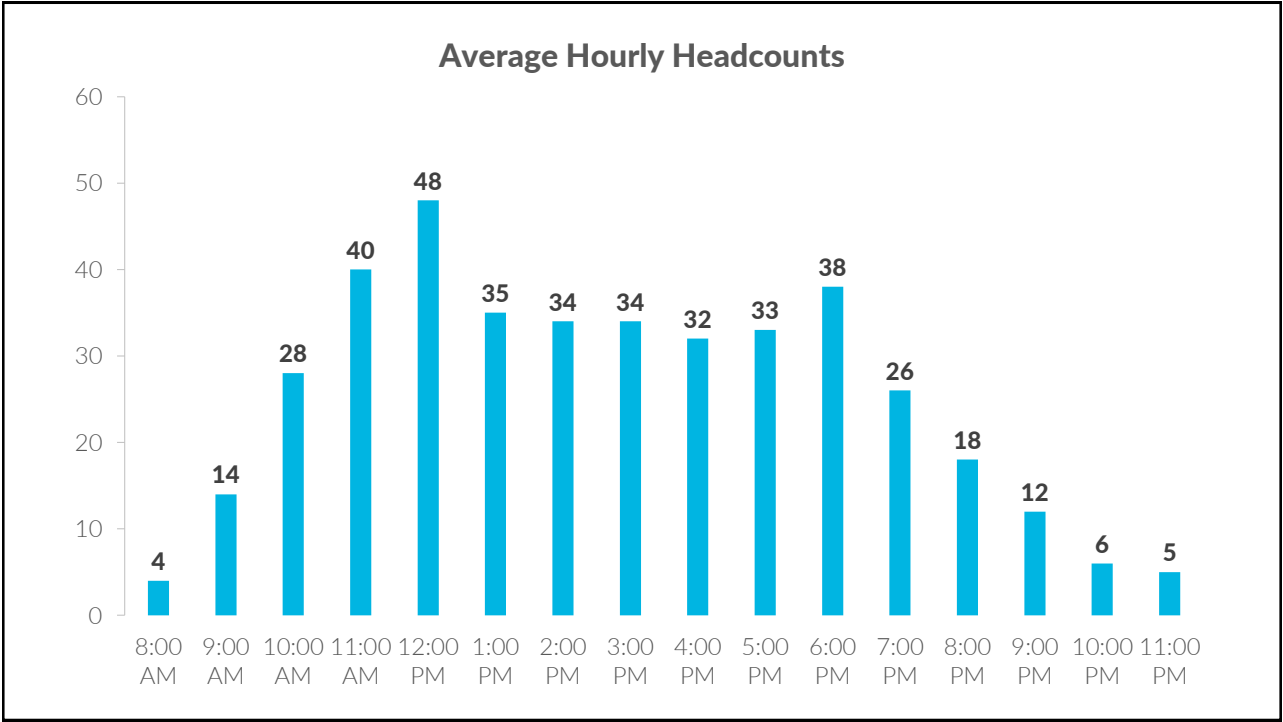
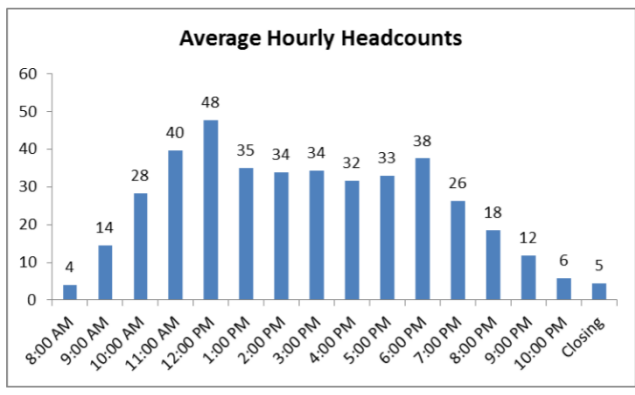
students in our **school** qualify
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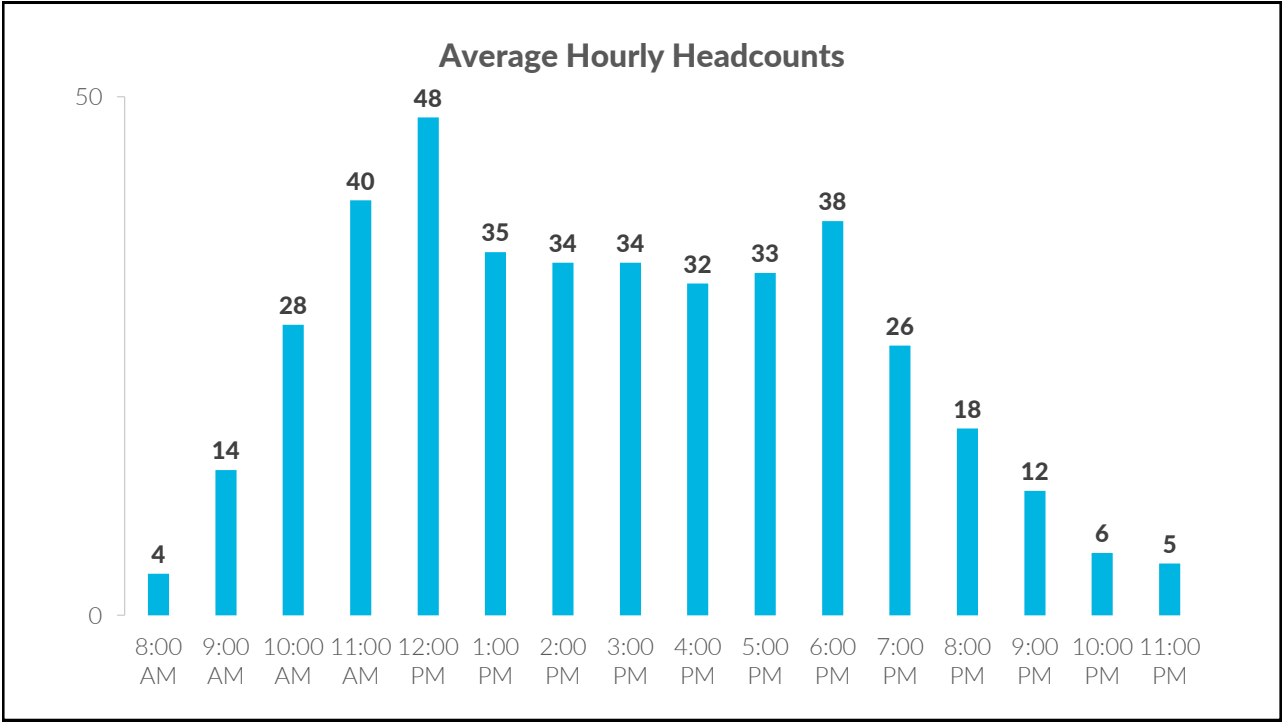
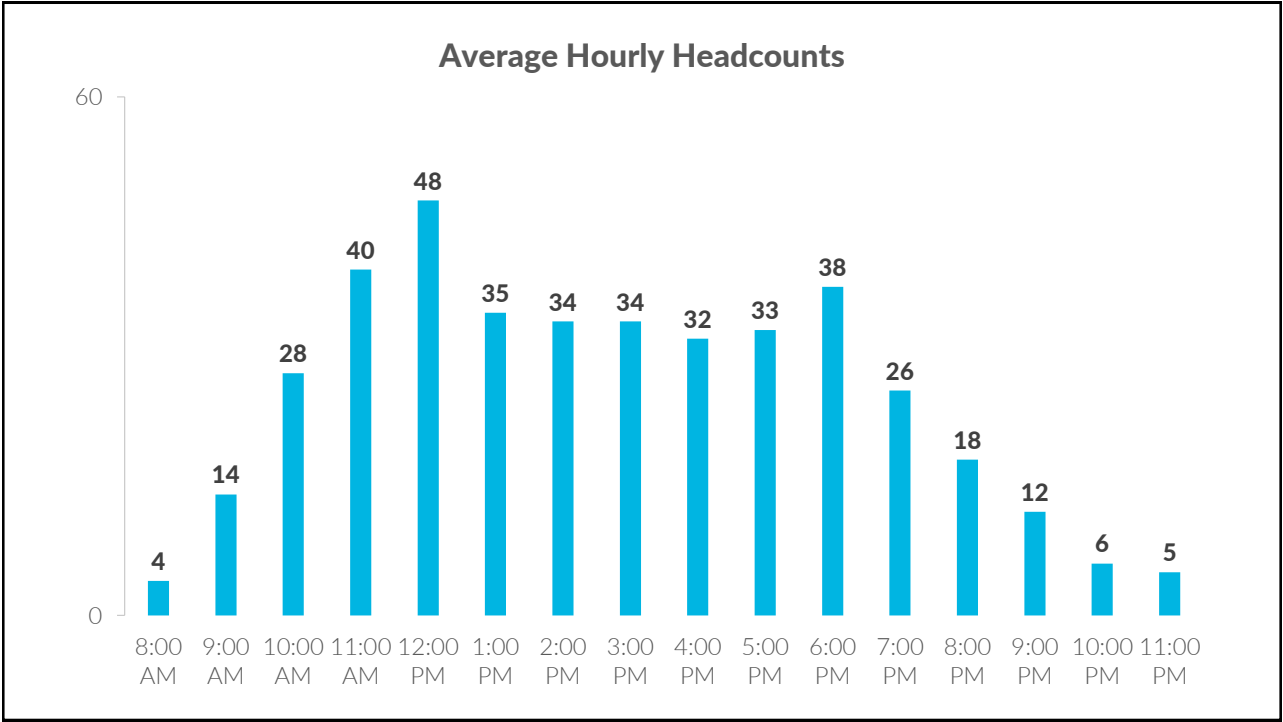


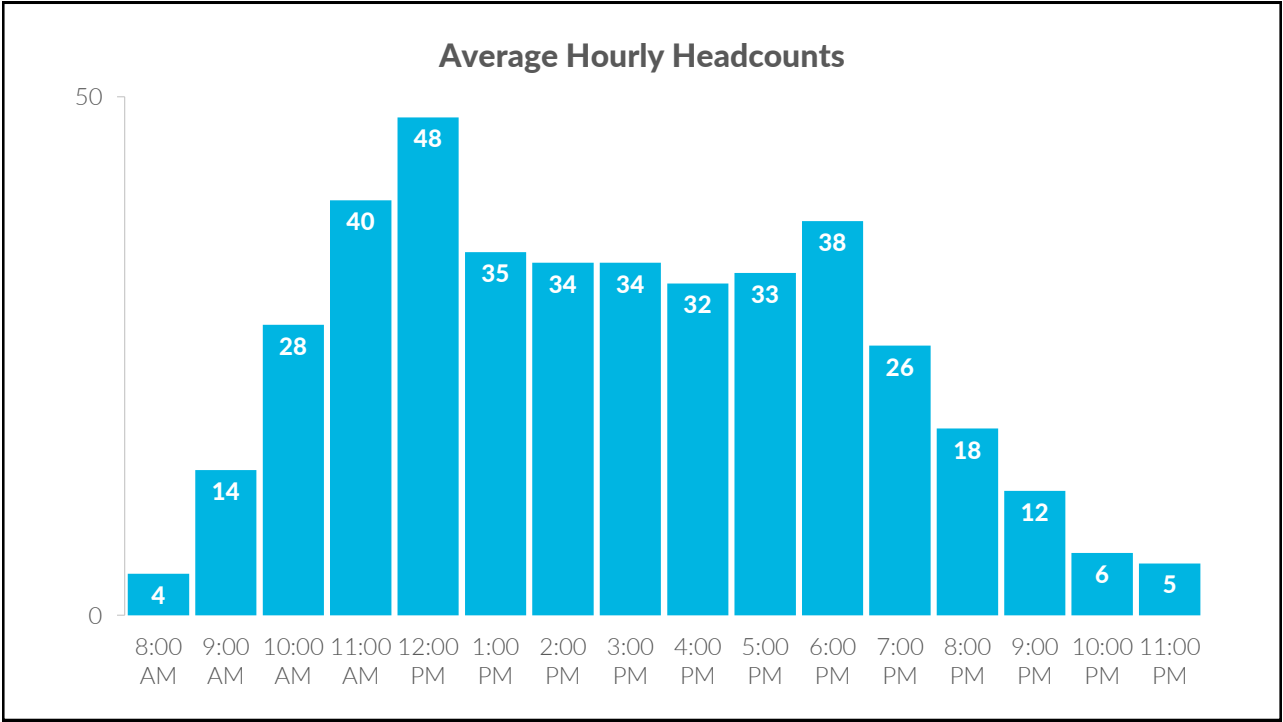
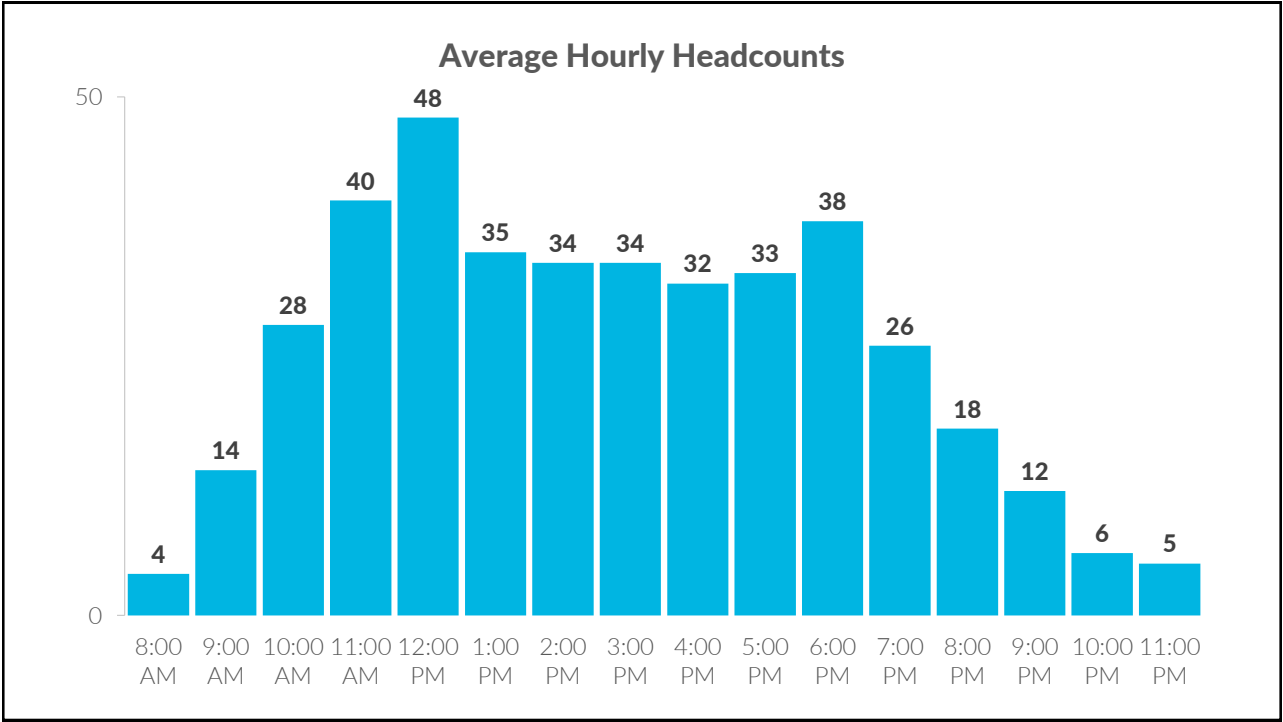
State of the Department:

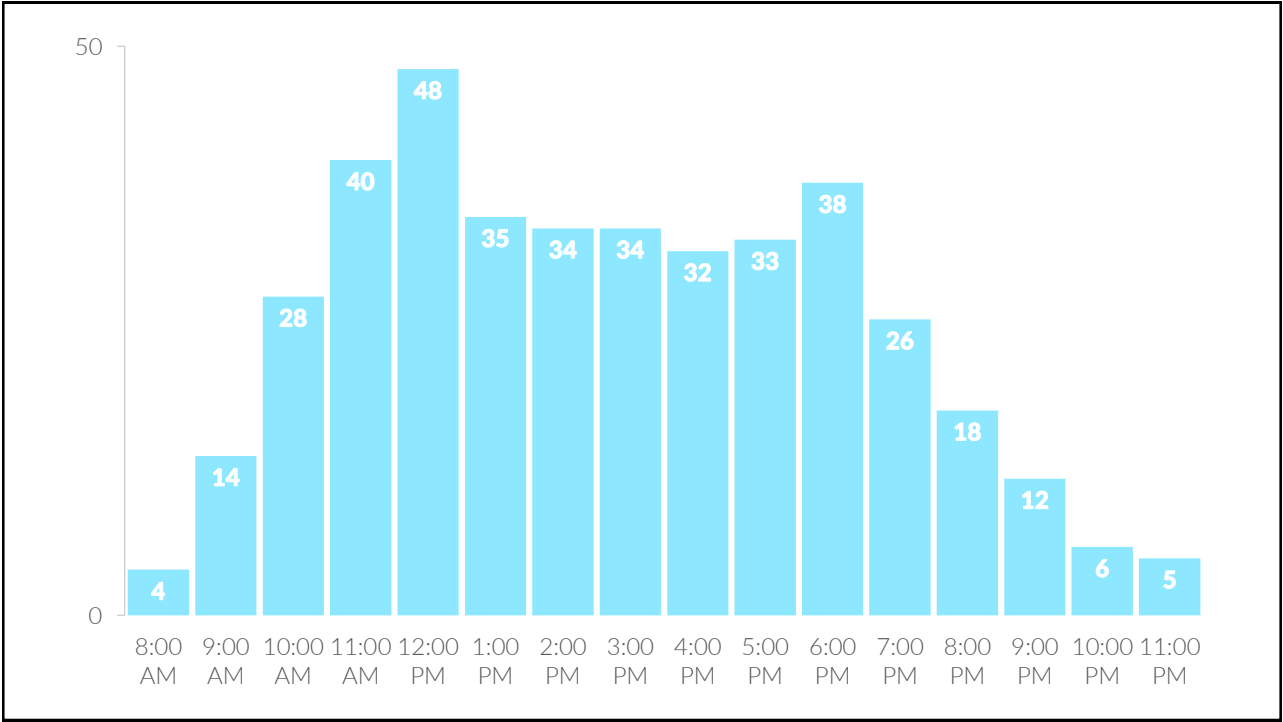
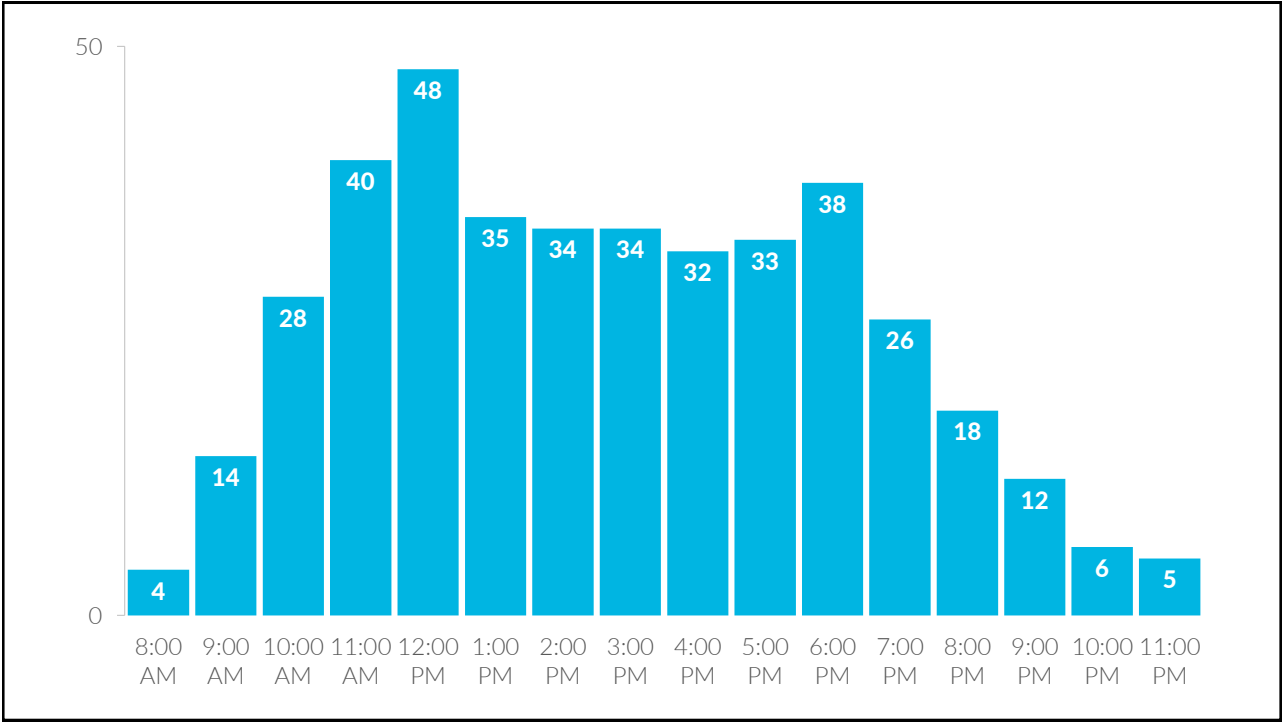
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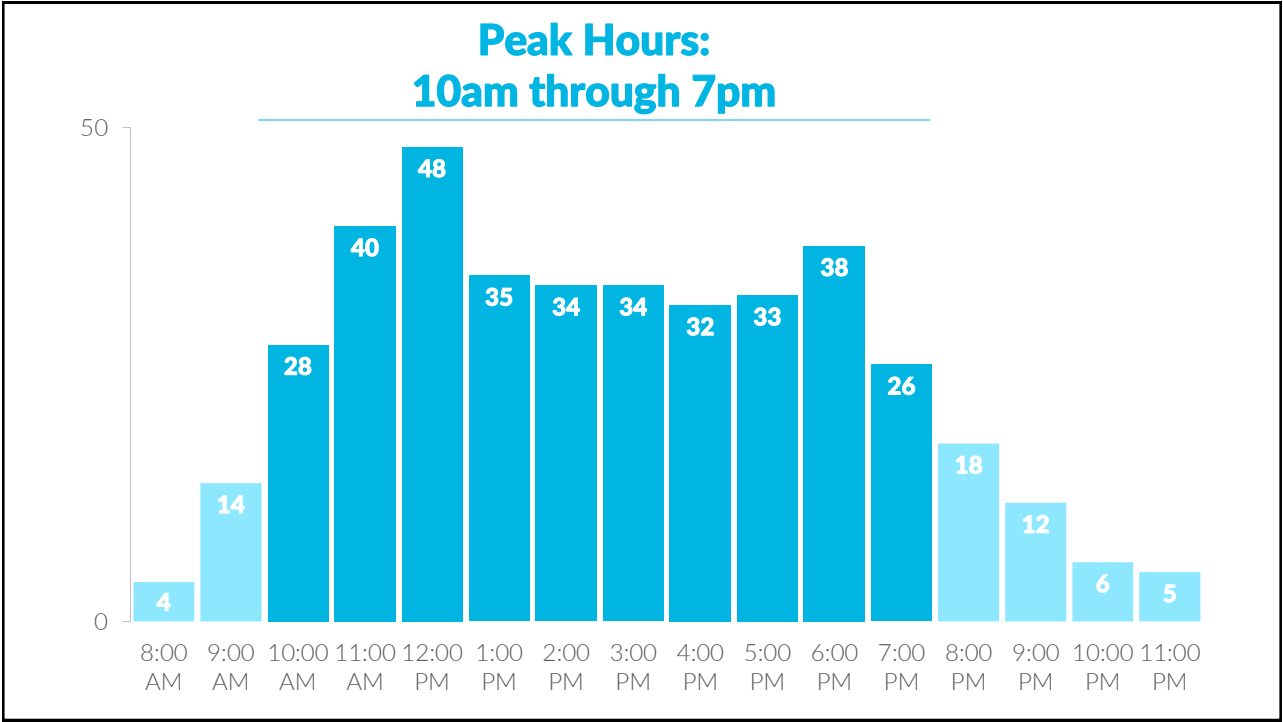
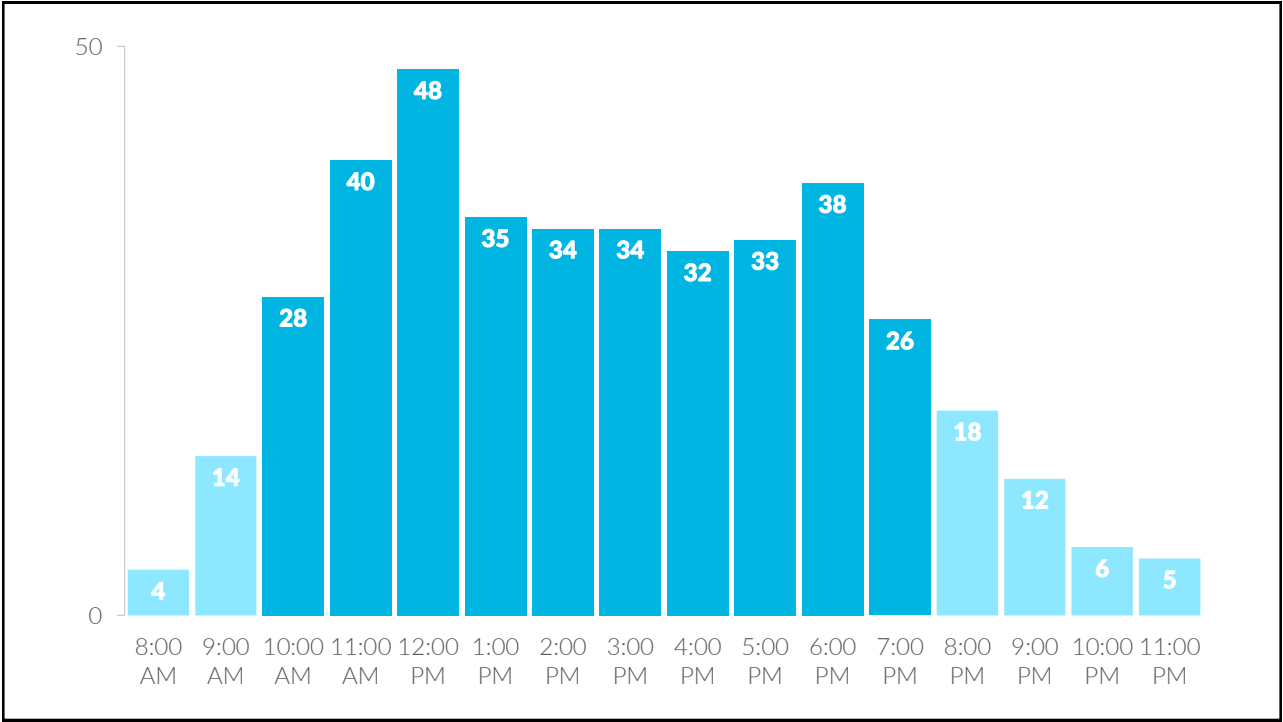
The headcounts for the year show that the library is being utilized by the students on a regular basis. Our peak hours are between 10am-7pm and our peak days are Tuesday and Thursday. At closing we are kicking out on average 5 people a day and Sunday totals have increased by 75%.

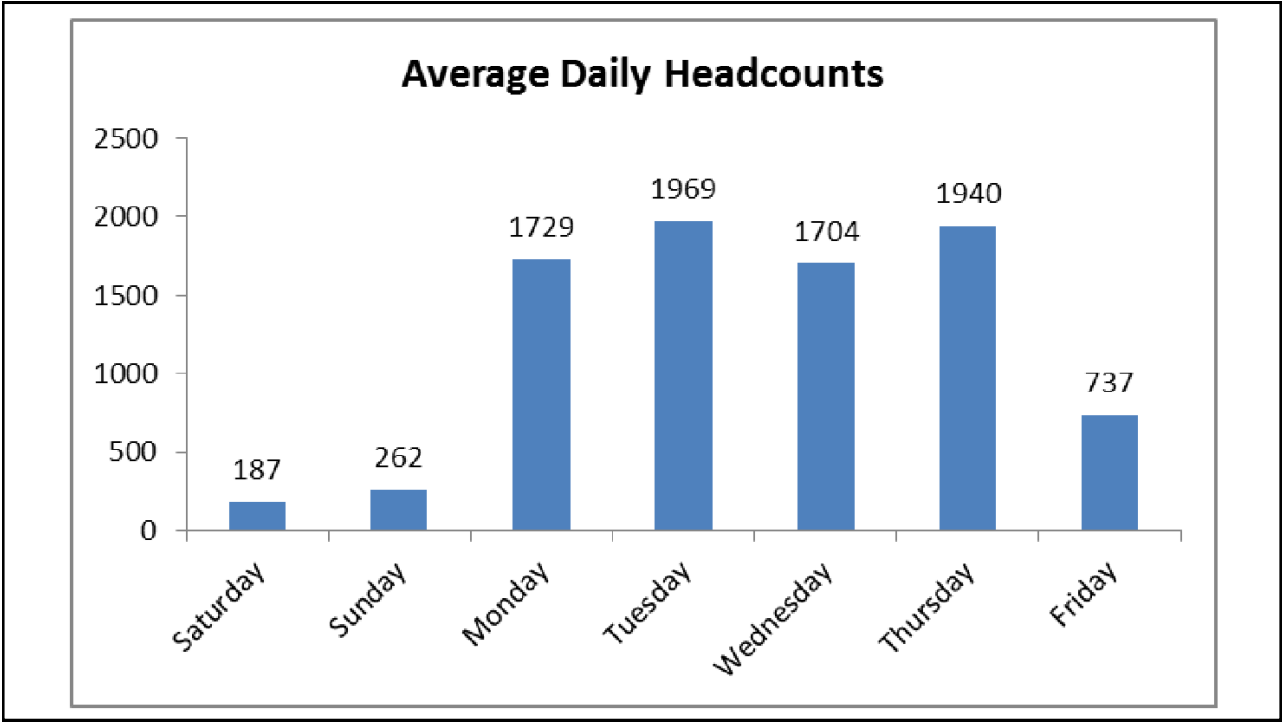
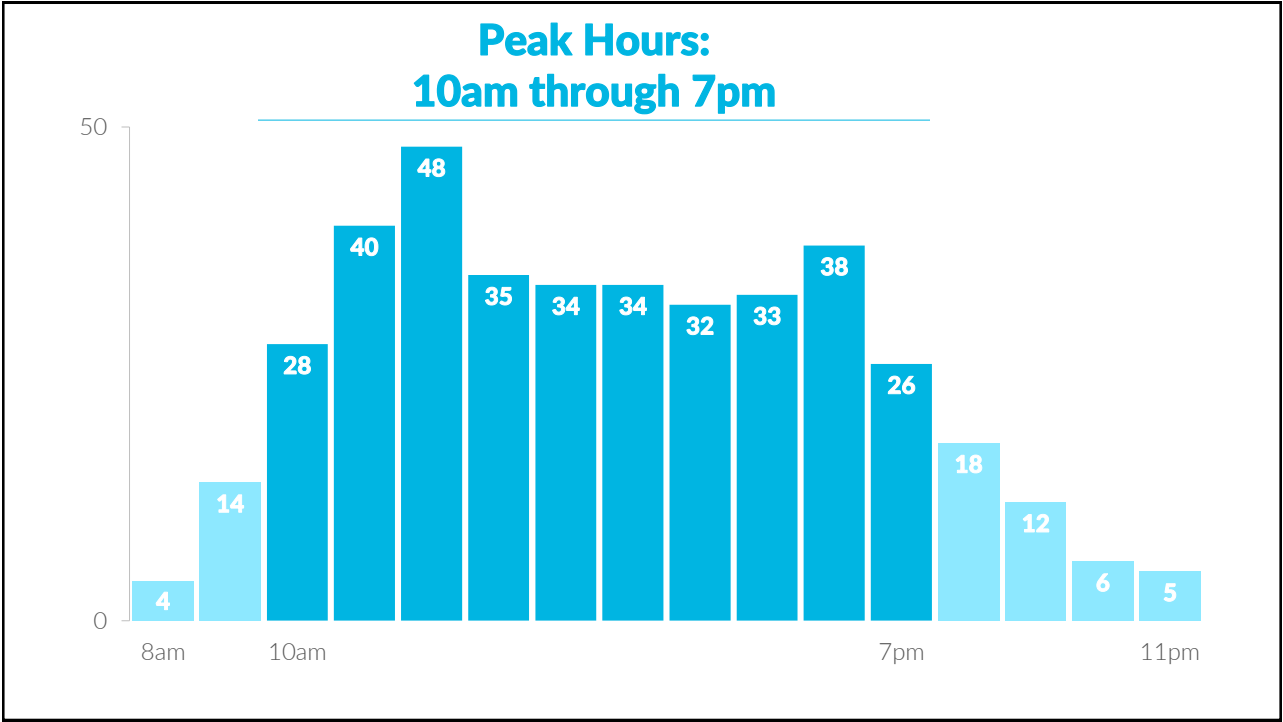


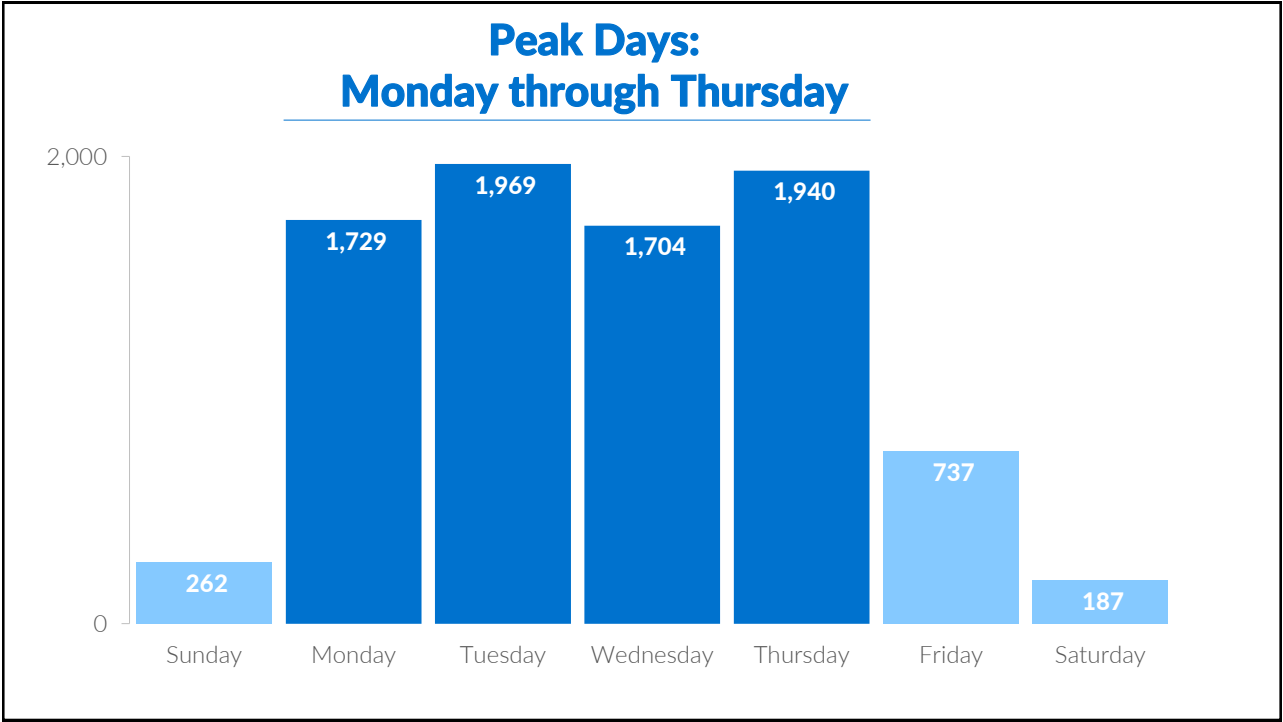












ABC University Library
Access & Information Services Department

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Page 20 of 113

Department Reports:

Circulation:

The library's Circulation totals continue to decrease. This can be explained by our electronic offerings continuing to increase and the age of our collection. The checkout by patron type changed in a decrease in interlibrary loan and an increase in student checkout.

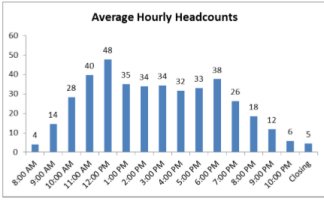
Page 21 of 113

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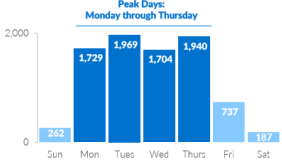
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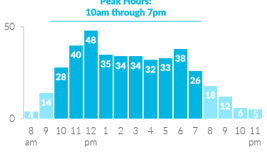
Daily Headcounts

The library is open seven days a week. Mondays through Thursdays are peak days, with an average headcount of 1,704 to 1,969 visitors each day.



Hourly Headcounts

The library is open from 8am until 11pm during the week with reduced hours on weekends. Our peak hours are 10am to 7pm, when we have an average headcount of 26 to 48 visitors.



Daily Headcounts

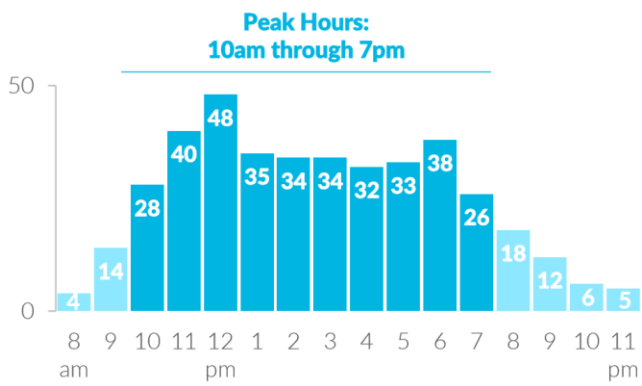
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Peak Days: Monday through Thursday



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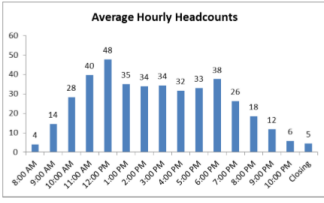


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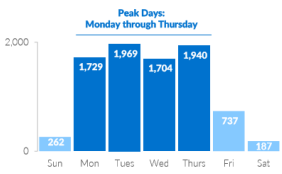
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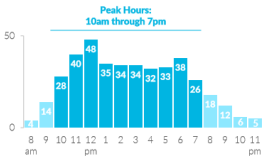
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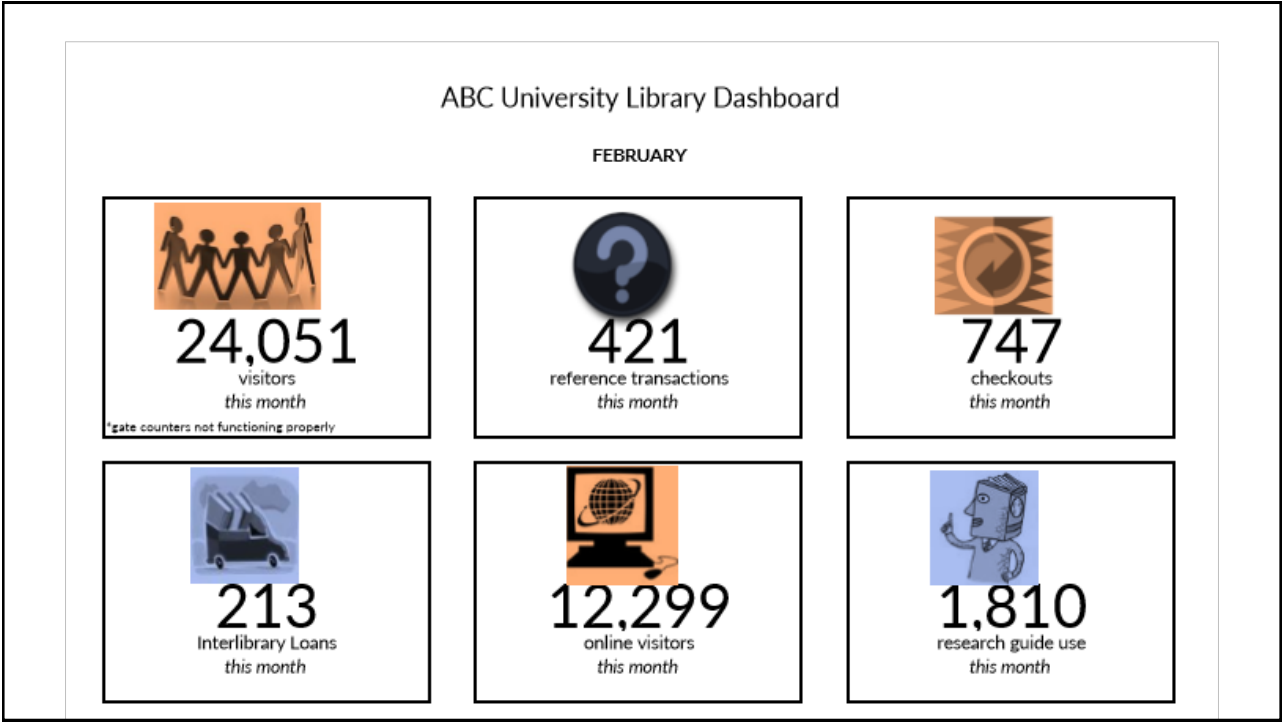
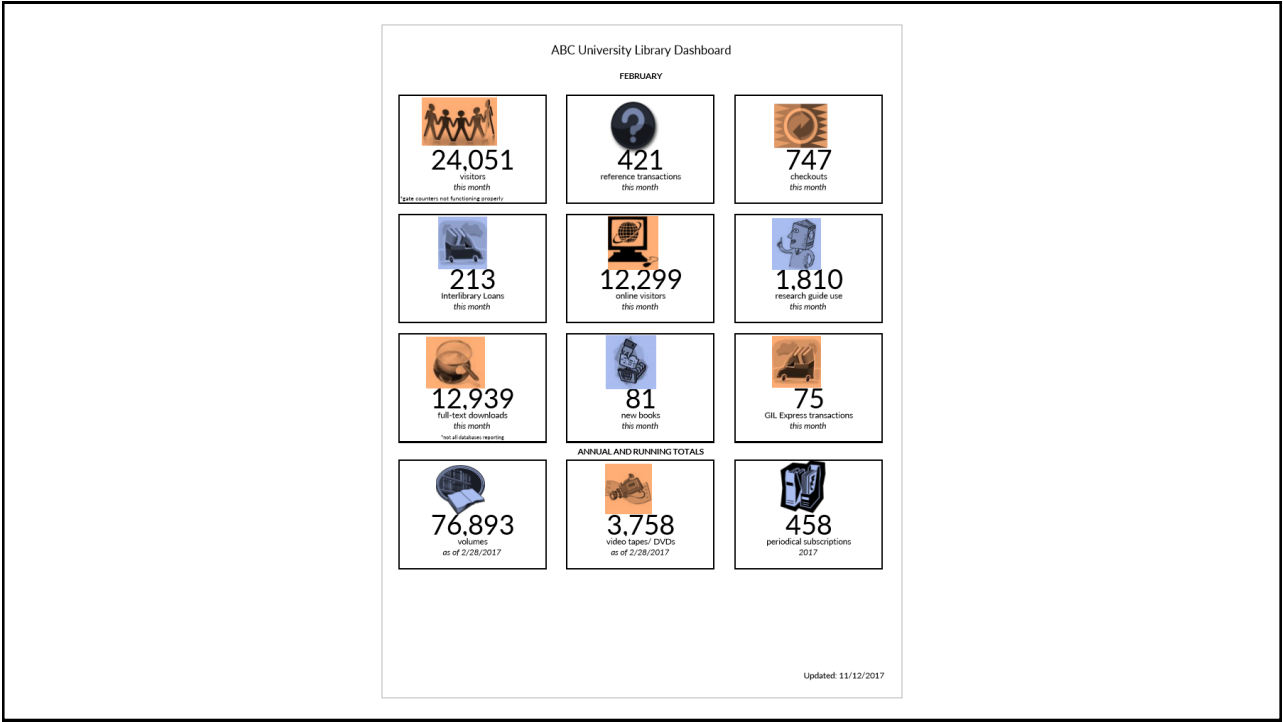
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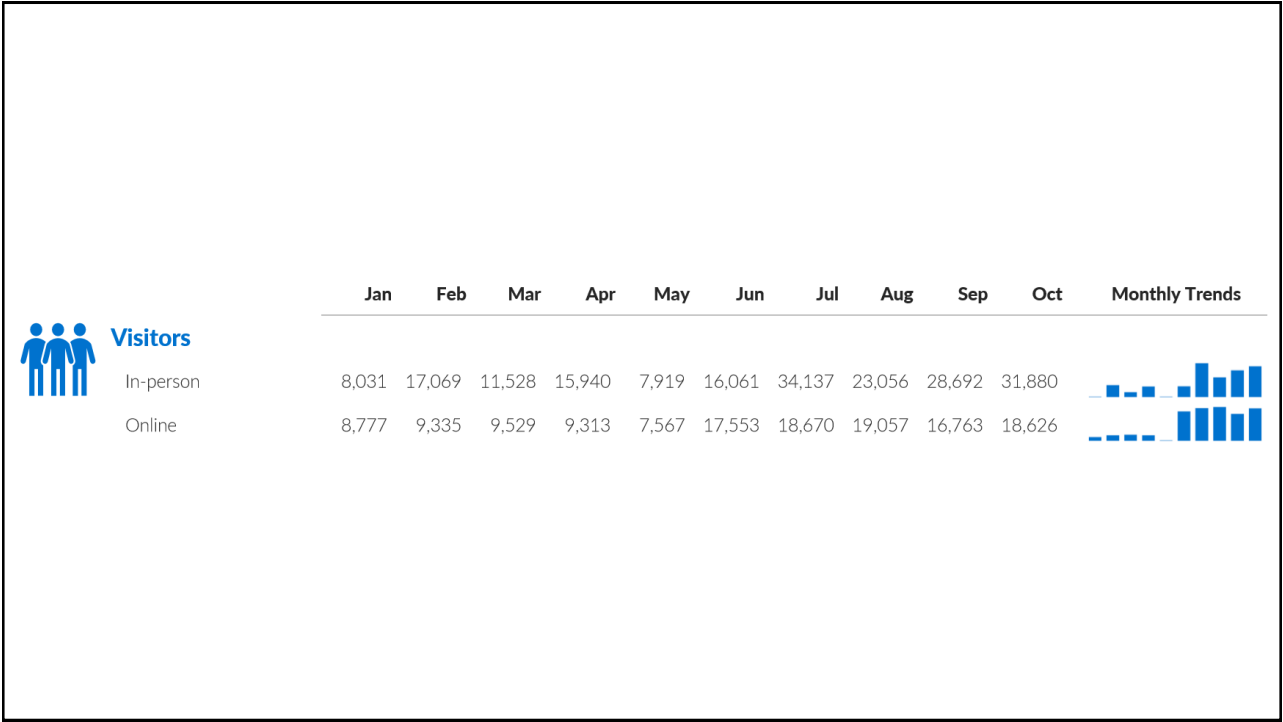
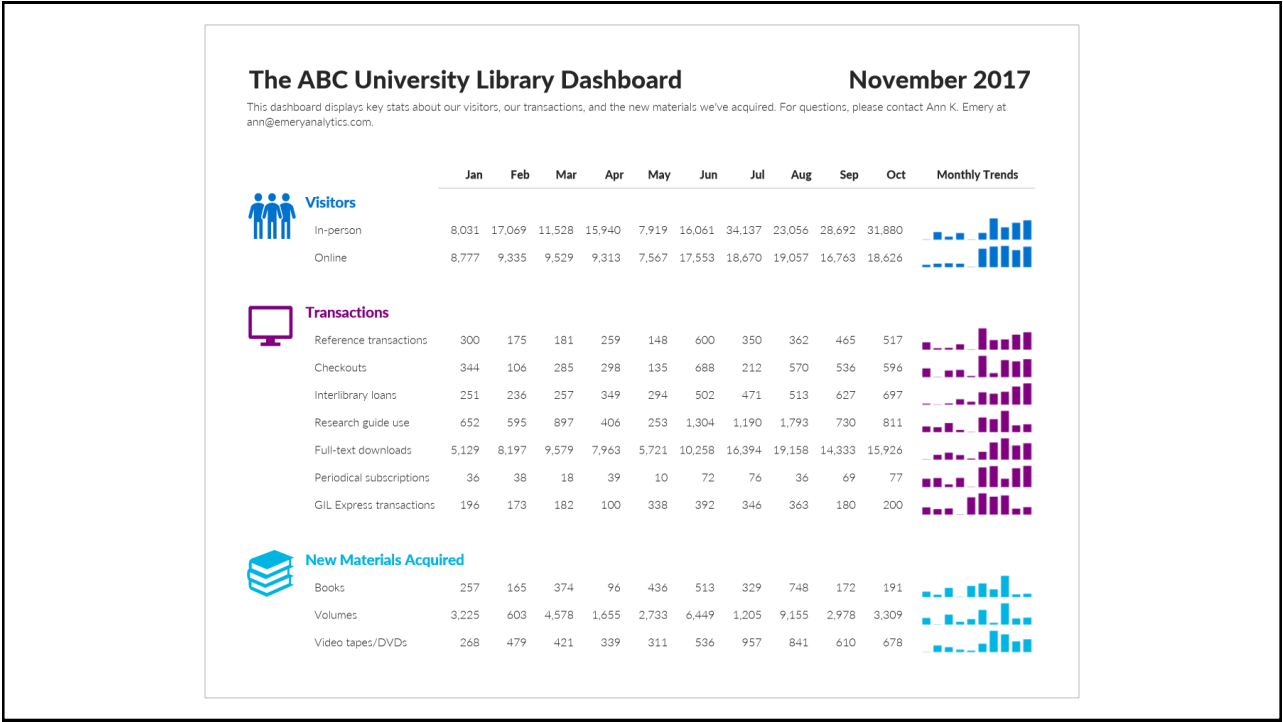


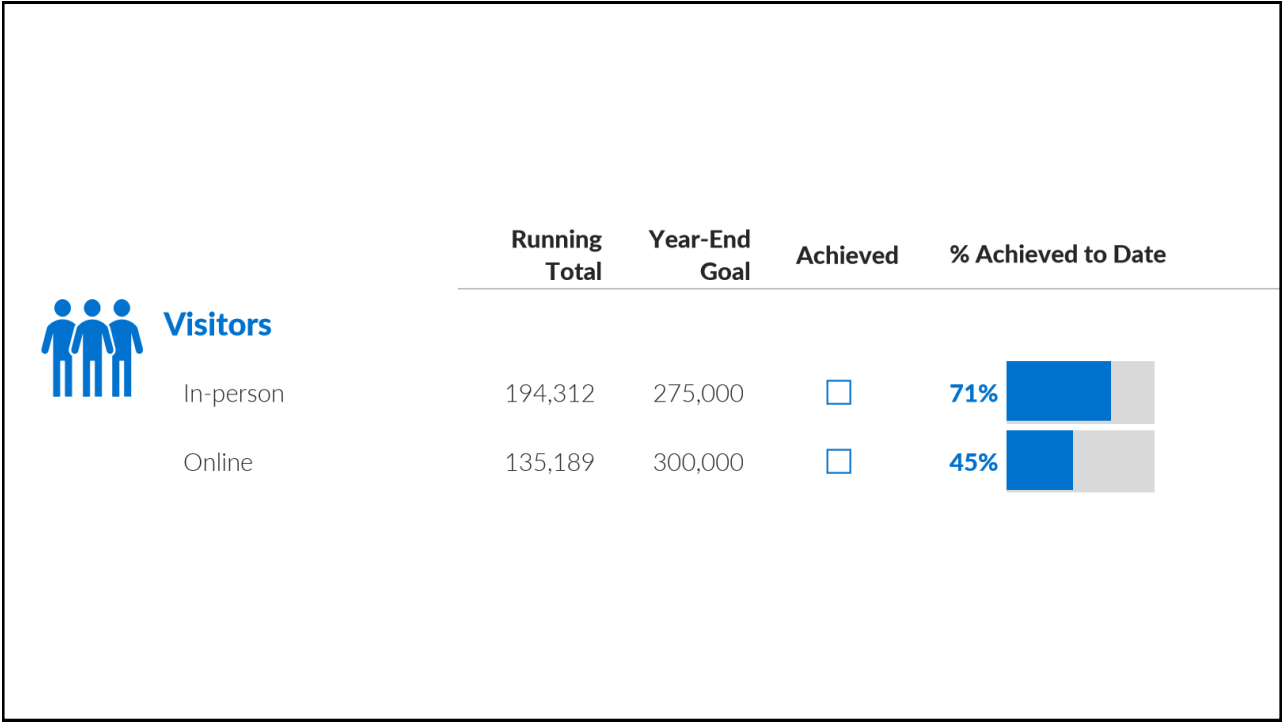
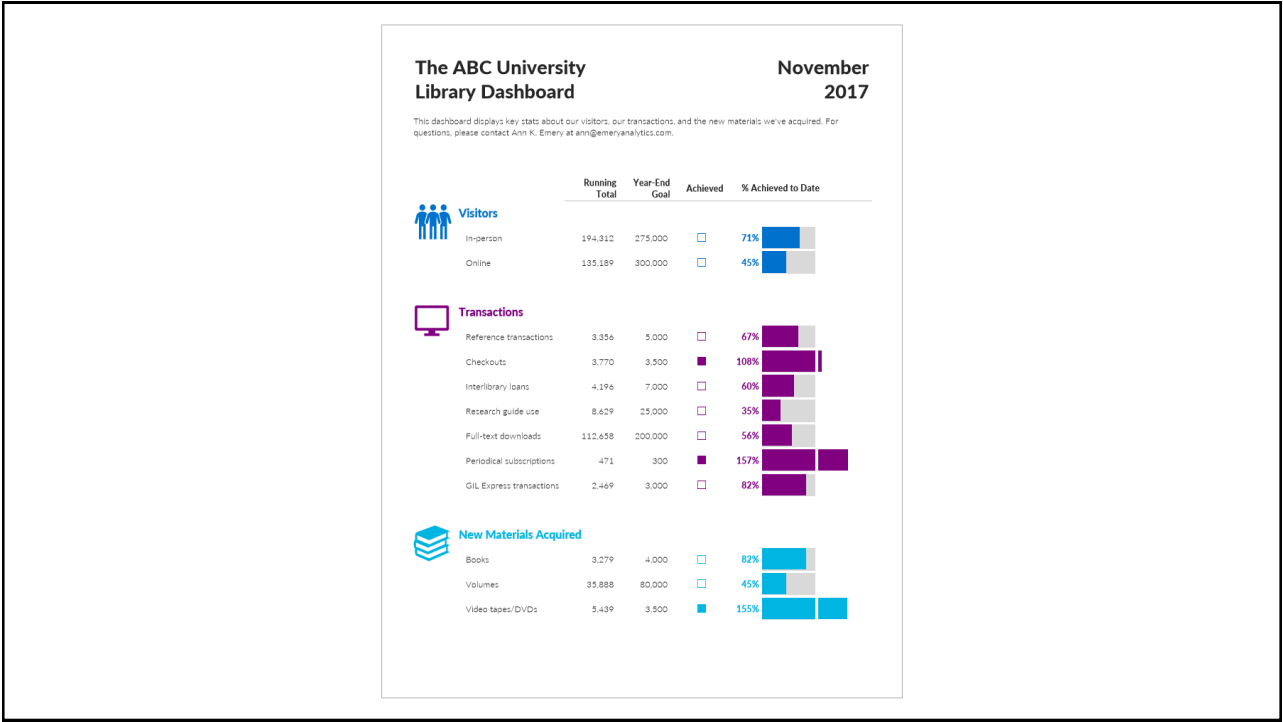
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ABC University Library Dashboard

FEBRUARY

24,051 visitors this month <small>(gate counters not functioning correctly)</small>	421 reference transactions this month	747 checkouts this month
213 interlibrary loans this month	12,299 online visitors this month	1,810 research guide use this month
12,939 full-text downloads this month <small>(not all databases reporting)</small>	81 new books this month	75 GIL Express transactions this month
ANNUAL/RUNNING TOTALS		
76,893 volumes as of 2/28/2017	3,758 video tapes/ DVDs as of 2/28/2017	458 periodical subscriptions 2017

Updated: 11/12/2017

The ABC University Library Dashboard

November 2017

This dashboard displays key stats about our visitors, our transactions, and the new materials we've acquired. For questions, please contact Ann K. Emery at ann@emeryanalytics.com.

	Running Total	Year-End Goal	Achieved	% Achieved to Date
Visitors				
In-person	194,312	275,000	<div style="width: 71%;"></div>	71%
Online	135,189	300,000	<div style="width: 45%;"></div>	45%
Transactions				
Reference transactions	3,356	5,000	<div style="width: 67%;"></div>	67%
Checkouts	3,770	3,500	<div style="width: 108%;"></div>	108%
Interlibrary loans	4,196	7,000	<div style="width: 60%;"></div>	60%
Research guide use	8,629	25,000	<div style="width: 35%;"></div>	35%
Full-text downloads	112,658	200,000	<div style="width: 56%;"></div>	56%
Periodical subscriptions	471	300	<div style="width: 157%;"></div>	157%
GIL Express transactions	2,469	3,000	<div style="width: 82%;"></div>	82%
New Materials Acquired				
Books	3,279	4,000	<div style="width: 82%;"></div>	82%
Volumes	35,888	80,000	<div style="width: 45%;"></div>	45%
Video tapes/DVDs	5,439	3,500	<div style="width: 155%;"></div>	155%

Latin American Youth Center (LAYC)

Ethnicity of Individual Served

Summary Statistics

Demographic data on LAYC individual served 10/1/10 - 9/30/11

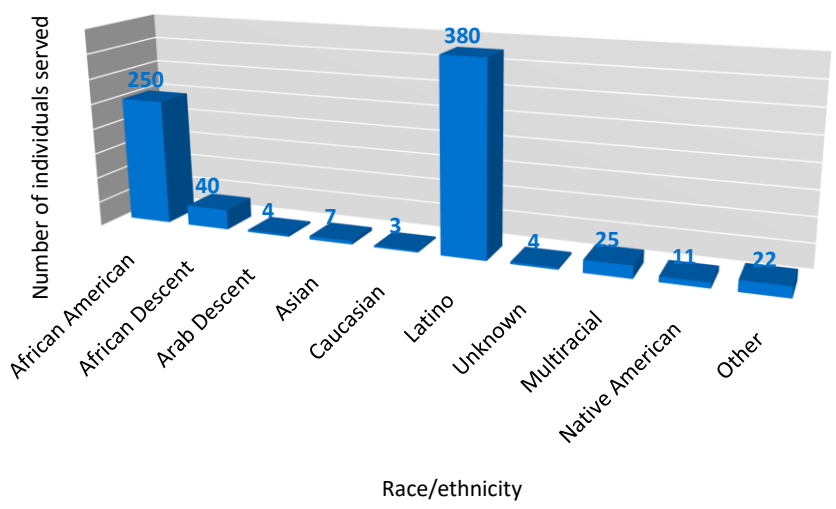
The LAYC served a total of 713 individuals between 10/1/10 and 9/30/11

Race / Ethnicity	Number of individuals served
African Am...	260
African De...	40
Arab Descent	10
Asian	10
Caucasian	10
Latino	390
Misling	10
Multiracial	20
Native Ame...	10
Other	20

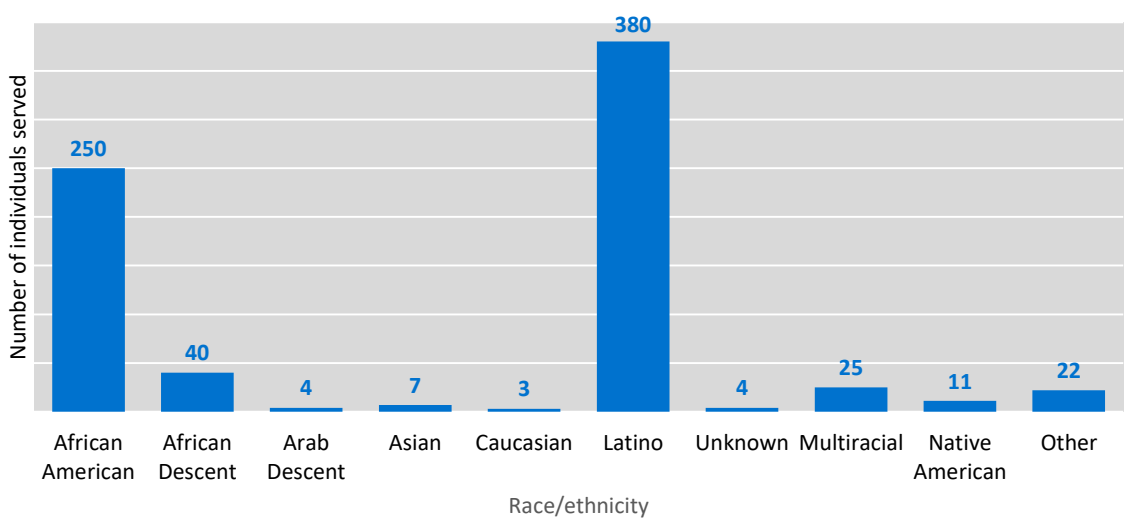
Latin American Youth Center
Learning and Evaluation Department

3/28/12

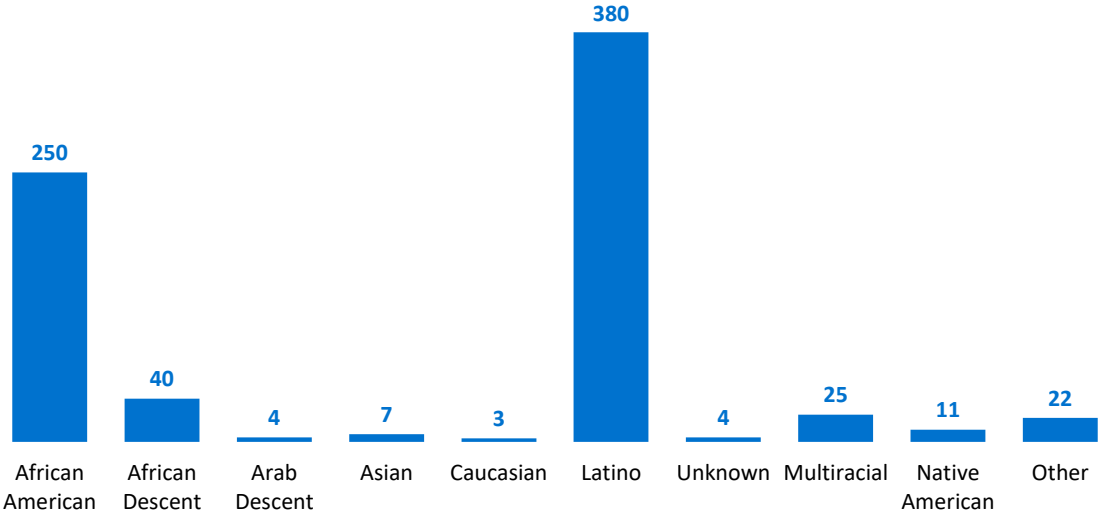
Take Your Skills to the Next Level



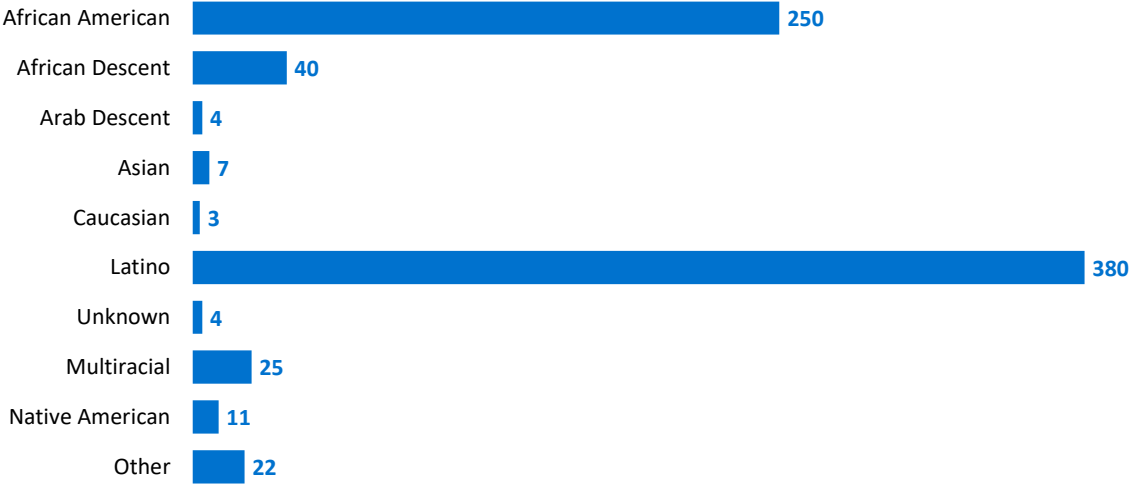
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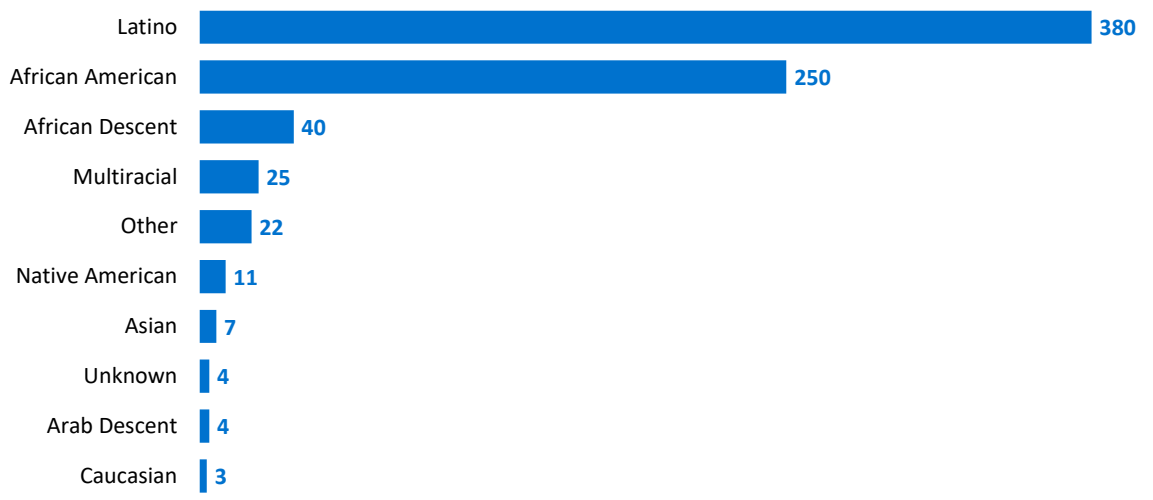
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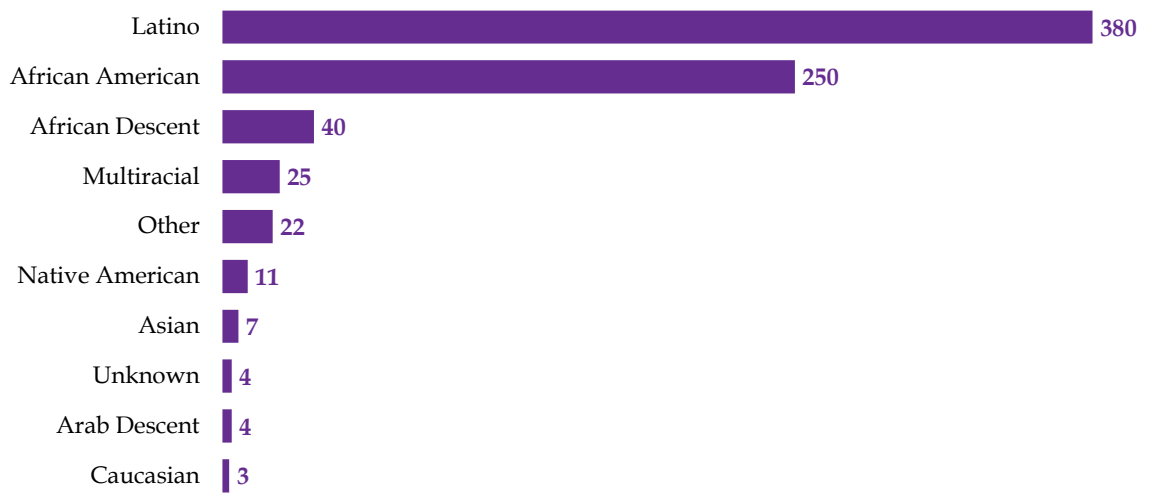
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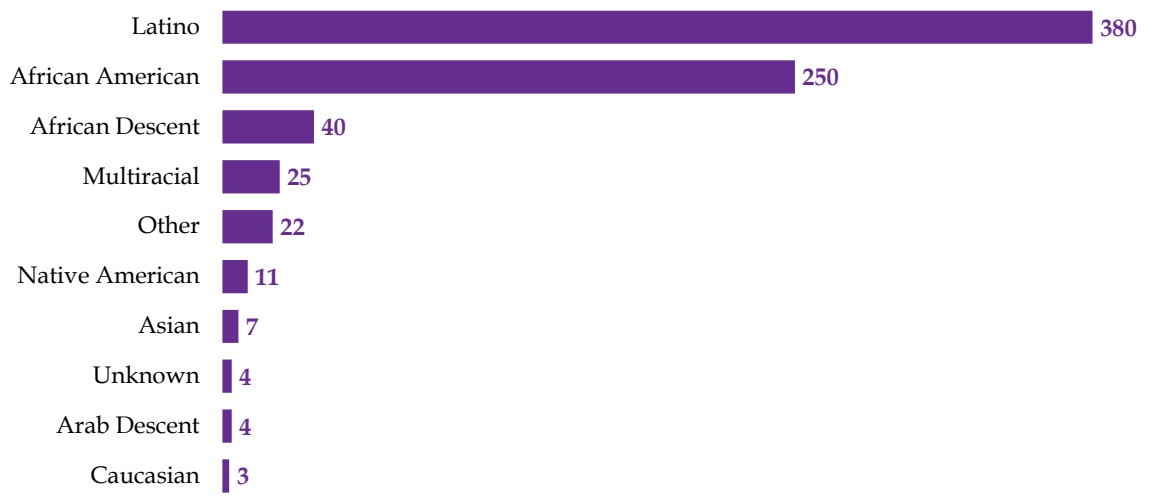
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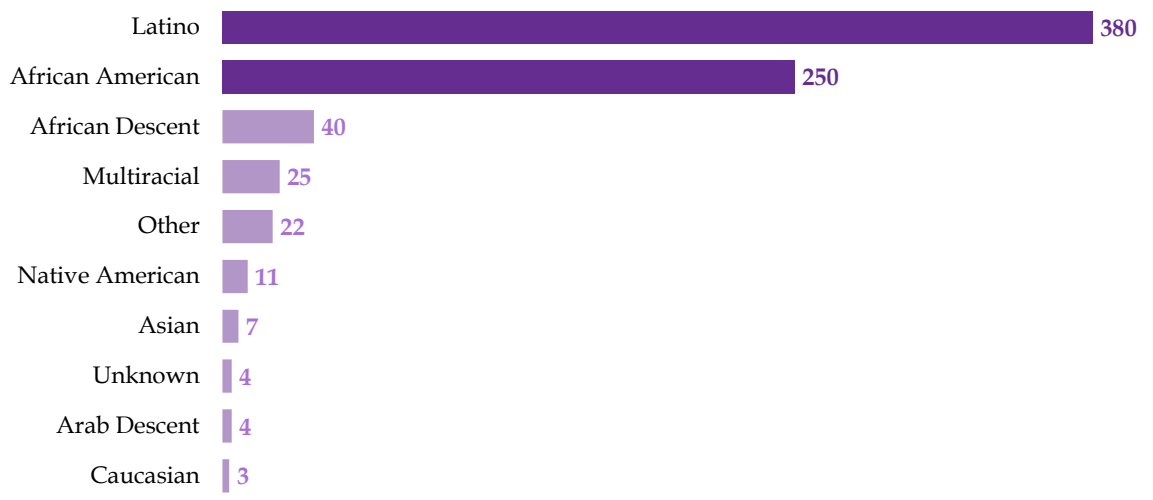


Our cultural diversity



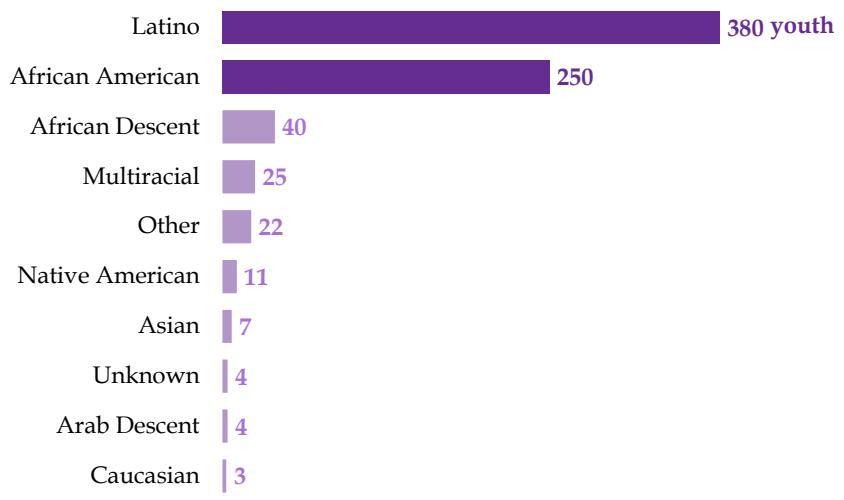
Organization Name www.organizationwebsite.com

Our cultural diversity



Organization Name www.organizationwebsite.com

Our cultural diversity



84%
are Latino or African American

Latin American Youth Center (LAYC)
Ethnicity of Individual Served
Summary Statistics

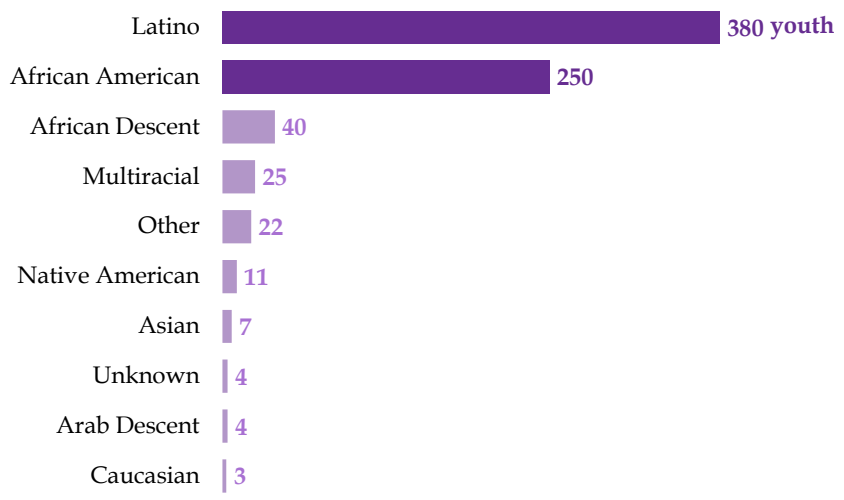
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Arab Descent	4
Asian	7
Caucasian	3
Latino	380
Missing	4
Multiracial	25
Native Ame...	11
Other	22

*Latin American Youth Center
Learning and Evaluation Department*

3/28/12

Our cultural diversity



84%
are Latino or African American

Learn More

AnnKEmery.com/book
Code: SELAC

Take Your Skills to the Next Level

Half the battle is removing redundancies from your computer's default settings. Delete, delete, delete. Then, draw attention to your desired message with clear text and dark colors.

Data visualizers who choose others before creating them a trip down memory lane. Check out this beauty from one of our 99 percent of my work from the period had this book and made it Excel and saved directly into Word without any add.

Before

After

GREAT GRAPHS WITH ANN K. EMERY

Your Guide to Great Graphs

Once you've analyzed your audience and your data, the next step is to select a graph type that communicates your desired message. Explore your dataset by sketching by hand or with heat tables, spark lines, and spark bars. Then, decide which pattern you want to emphasize.

EXPLORATORY

- Sketching
- Heat Tables
- Spark Lines
- Spark Bars

PART-WHOLE

- Pie/Donut
- Stacked
- Diverging
- Waffle
- Icon Array

COMPARISONS

- Bar/Column
- Loop/Bar
- Clustered
- Dot
- Multiples

PROGRESS

- Area
- Nested Area
- Overlapping
- Target Line

GREAT GRAPHS WITH ANN K. EMERY

Tile Grid Maps

In traditional maps, our brains are trying to decode information based on both size and saturation. In the grid maps, each state is the same size & square so that our brains can't solely on saturation and not on size. Cartographers also build these maps with hexagons of with squares (see maps).

Tile Grid Trendline Maps

Once you master the basics, you can begin customizing charts in new ways. In this file grid trendline map, I combined a tile grid map with a line chart.

GREAT GRAPHS WITH ANN K. EMERY

Measure Text Readability

A lot of things go into a visualization's readability: graph type, font size, text direction, color/line/width considerations, grayscale, and more. Accessibility is at the top of my priority list if your reader can't read your graph, why bother making it?

I recently worked on this slide makeover with a public health agency. Our priority on that makeover was to make the years readable. The year labels were too small (size 9) and they were diagonal (which is slower to read than plain old horizontal text). We freed up space by abbreviating the years (1995 to '95). We also opted to lead just four points along the line to emphasize key milestones.

If I also changed the slide title. For slides, aim for super short titles. Be practically present to subordinate on all the cool parts of the graph. For printed materials, I use storytelling titles that state the cool parts directly.

I'm not a Ph.D. epidemiologist like this slide's creator, so it took me a while to understand the slide's title. I had a gut instinct that others would find the slide's title a bit jargon-y, too. I wanted to objectively measure the readability of the before slide.

Slide 1 (Before) Classification and Deaths of Persons with Diagnosed HIV Infection Ever Classified as Stage II (AIDS), among Adults and Adolescents, 1989-2014 (U.S. and 4 dependent areas)

Slide 2 (After) AIDS Diagnoses and Deaths

GREAT GRAPHS WITH ANN K. EMERY

TELLING A STORY WITH DATA



ANN K. EMERY

WWW.ANNKEMERY.COM

TWITTER: @ANNKEMERY