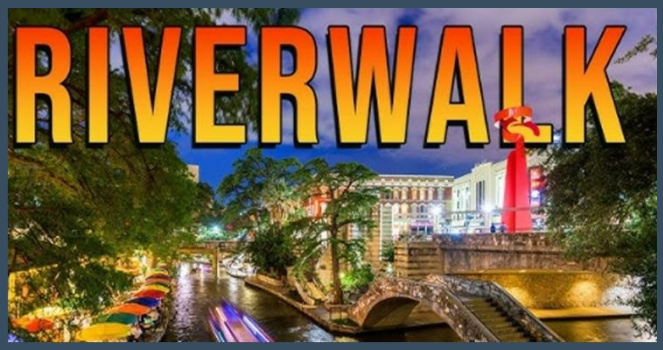
San Antonio Soiree:
Unpacking the Secrets of a National Conference



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Maximizing Your Experience at the APIC National Conference: *Key Focus Areas for Infection Preventionists*

- Current trends and best practices: Gain insight into the latest research, guidelines, and best practices
- Networking opportunities: Connect with peers, industry leaders, and experts in IP
- Educational sessions: Workshop and sessions that cover a wide range of topics
- Regulatory and compliance updates: Understand implications of new guidelines and accreditation requirements
- Practical tools and resources: Explore new tools, resources, and technologies that can aid in infection prevention efforts
- Research and data analysis: Learn about new studies and data analyses that inform evidence-based practices
- Collaboration with other disciplines: Attend sessions that highlight teamwork between IPs, epidemiologists, microbiologists, and other healthcare professionals
- Leadership and advocacy: Participate in discussions about leadership skills and strategies for influencing change within organizations
- Professional development: Reflect on how the information can be applied to your practice

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Let's get started!

- HYPE day!
- Hear from APIC leadership
- Time to get pumped to be there
- Motivational keynote speaker

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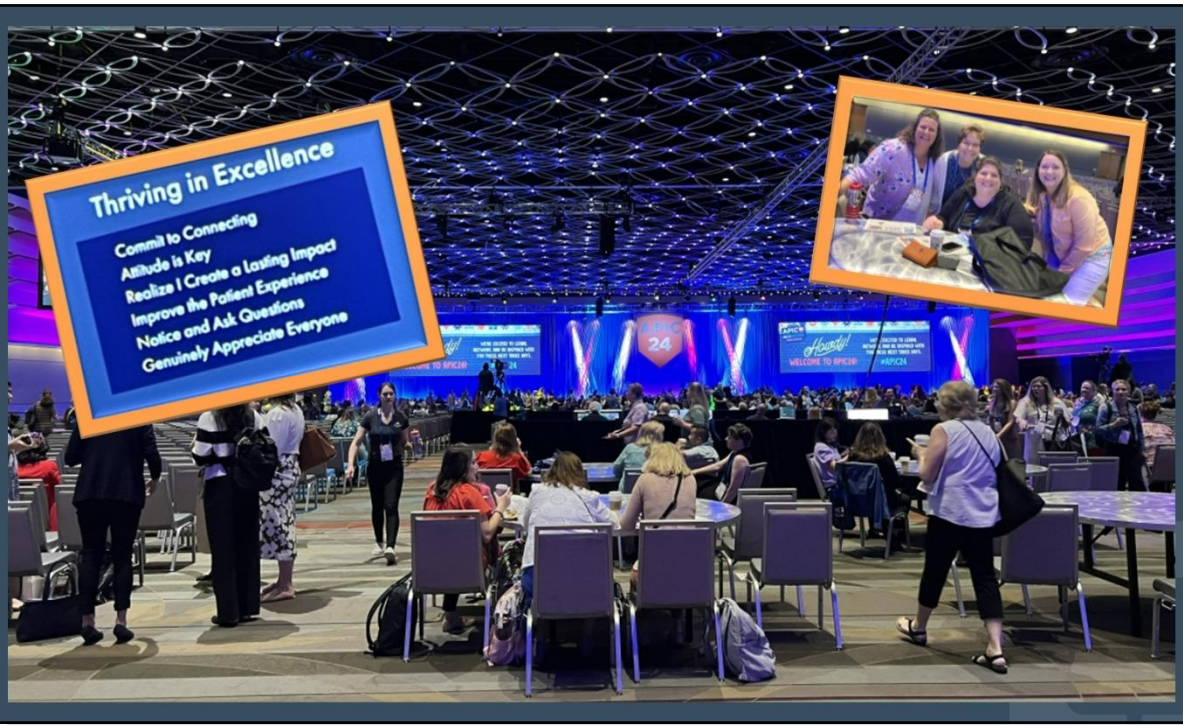

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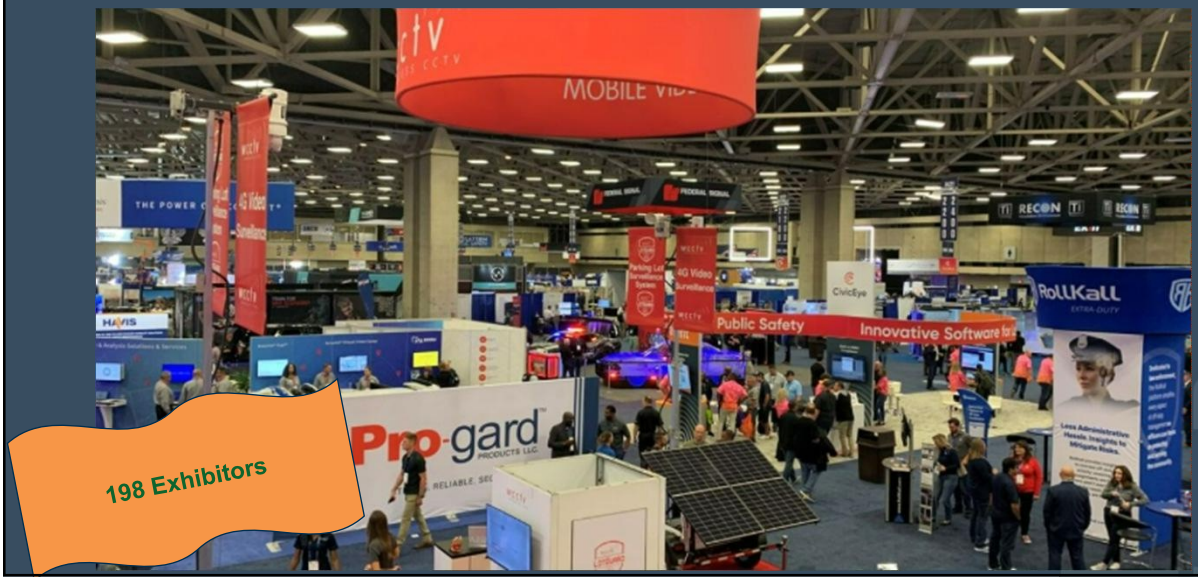
Vendor Hall – YIKES!



198 Exhibitors

5

Vendor Hall Shenanigans

Bounce house size Trophon

6

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nanosonics
JOIN THE FIGHT!
for Infection Prevention

JOIN THE FIGHT!
for Infection

8

Finding friends (and snacks) in the crowd!

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Key Learnings from Conference

Attended sessions on:

- Importance of workforce development
- Emerging infectious diseases
- Environmental contamination management
- AI application in IP

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Using Lean Six Sigma to Bolster an Infection Control Program

Payal Patel MPH, CIC
Tammie Hull MA, BSN, CIC, LSSGBH

Nationwide Children's Hospital

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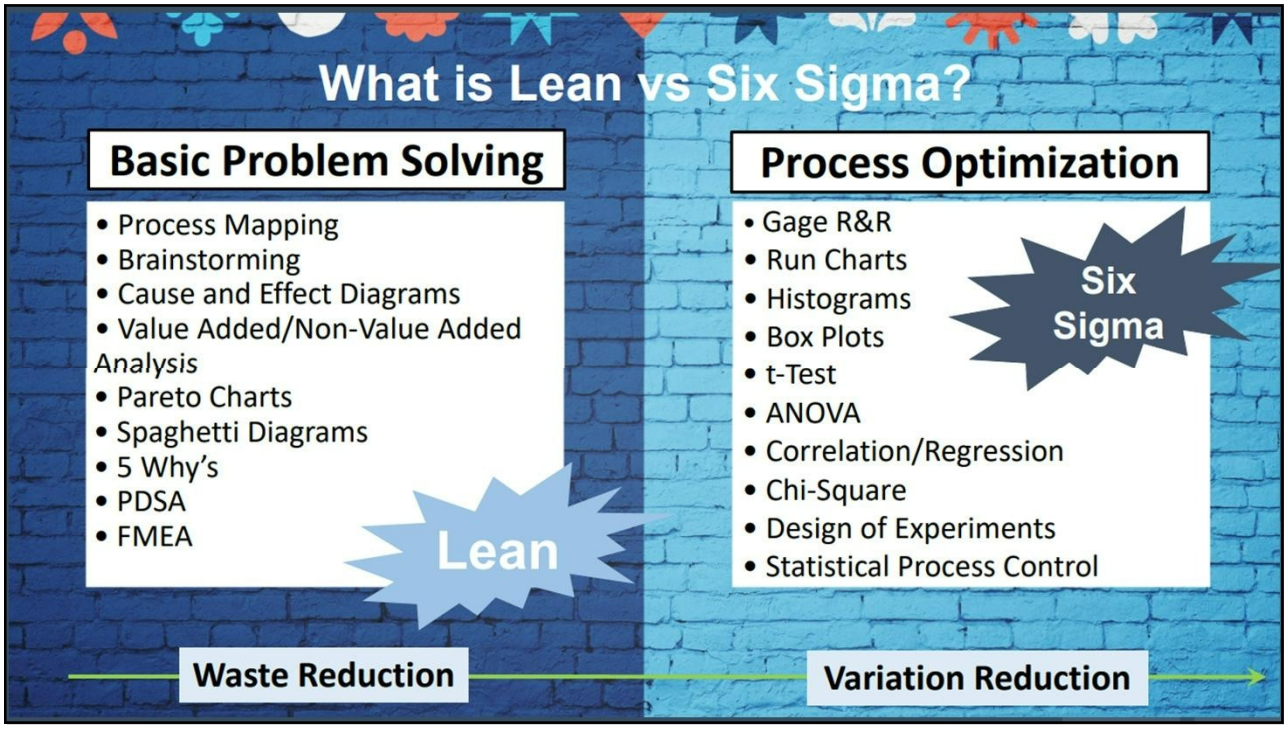

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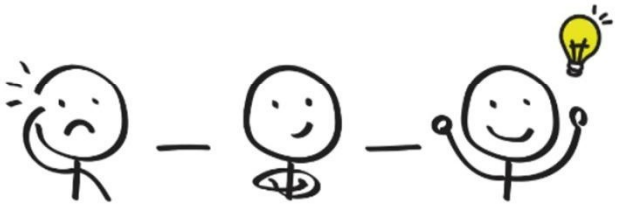
Think – Pair – Share

Start with a problem…



Can it be addressed with a process improvement project?

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Tools of Lean Six Sigma

- Project Charter
  - Establishes a mutual understanding and agreement between all parties involved
- Voice of the customer
  - Feedback about what customers care about
- Measuring needs and wants
- Process mapping
- Brainstorming
- Implementation

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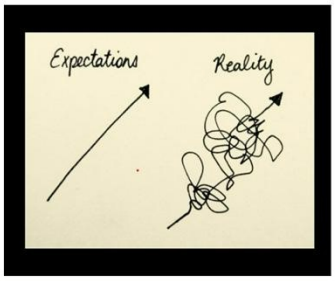
Process Mapping

Pro Tip: Document the process as it IS (not as it should be)



Process Mapping – Identify Challenges

Look at each process step for…

- Bottlenecks
- Sources of delays
- Rework
- Role ambiguity (right person, right task)
- Duplications
- Unnecessary steps
- Handoffs
- Cycle time (paired with time study)

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Data Storytelling for the Infection Preventionist

Ashlee Weekley MPH, CIC, M(ASP)^{cm}
Bobbiejean Garcia MPH, CIC, FAPIC

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Connecting to your audience

More information ≠ Better information

C-suite
- All departments and other hospitals
- Integrate additional data
  - COVID incidence and HAI SIR
  - Hand hygiene and SSI rates

External audiences
- Changes over time
- Interventions

Frontline staff
- Departmental changes over time
  - Bundle compliance
- Other departments

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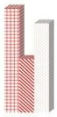
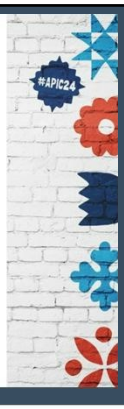
Data Visualization

All the world's a stage

Overall
- Brand guide
- Font size and style
- Simple text

Graphics
- Limit white space
- Bold or darken key data elements
- Avoid 3-D graphics
- Limit fill patterns and non-solid line styles





Data Visualization

Before adding colors or patterns

- Purpose
- The legend
- Influence the reader
- Color vision deficiency
- Black and white print

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Hand hygiene
Quarter 1
Quarter 2
Quarter 3
Quarter 4
Nurse
Physicians
PCA
Hand Hygiene by HCP 2023
Compliance
Goal
Nursing
MD
PCA
Table
CLABSI
2022
2023
2024 Jan-May
MedSurg 1 3 0
ICU 1 0 1 2
ICU 2 0 0 0
IMU 3 2 5
Total 4 6 7
Goal = ZERO
Table+
Healthcare-Associated CLABSI SIR

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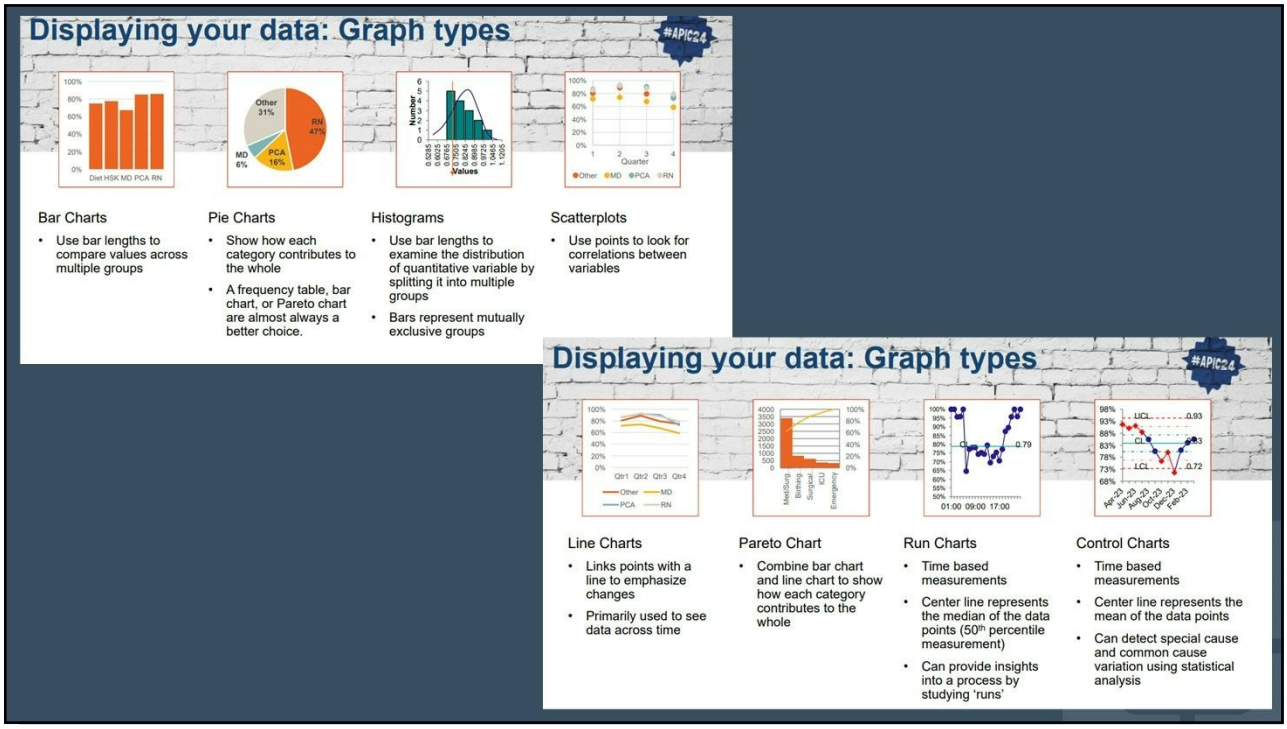
Displaying your data: Graph types
#APIC24
Bar Charts
Use bar lengths to compare values across multiple groups
Pie Charts
Show how each category contributes to the whole
A frequency table, bar chart, or Pareto chart are almost always a better choice.
Histograms
Use bar lengths to examine the distribution of quantitative variable by splitting it into multiple groups
Bars represent mutually exclusive groups
Scatterplots
Use points to look for correlations between variables
Displaying your data: Graph types
#APIC24
Line Charts
Links points with a line to emphasize changes
Primarily used to see data across time
Pareto Chart
Combine bar chart and line chart to show how each category contributes to the whole
Run Charts
Time based measurements
Center line represents the median of the data points (50th percentile measurement)
Can provide insights into a process by studying 'runs'
Control Charts
Time based measurements
Center line represents the mean of the data points
Can detect special cause and common cause variation using statistical analysis

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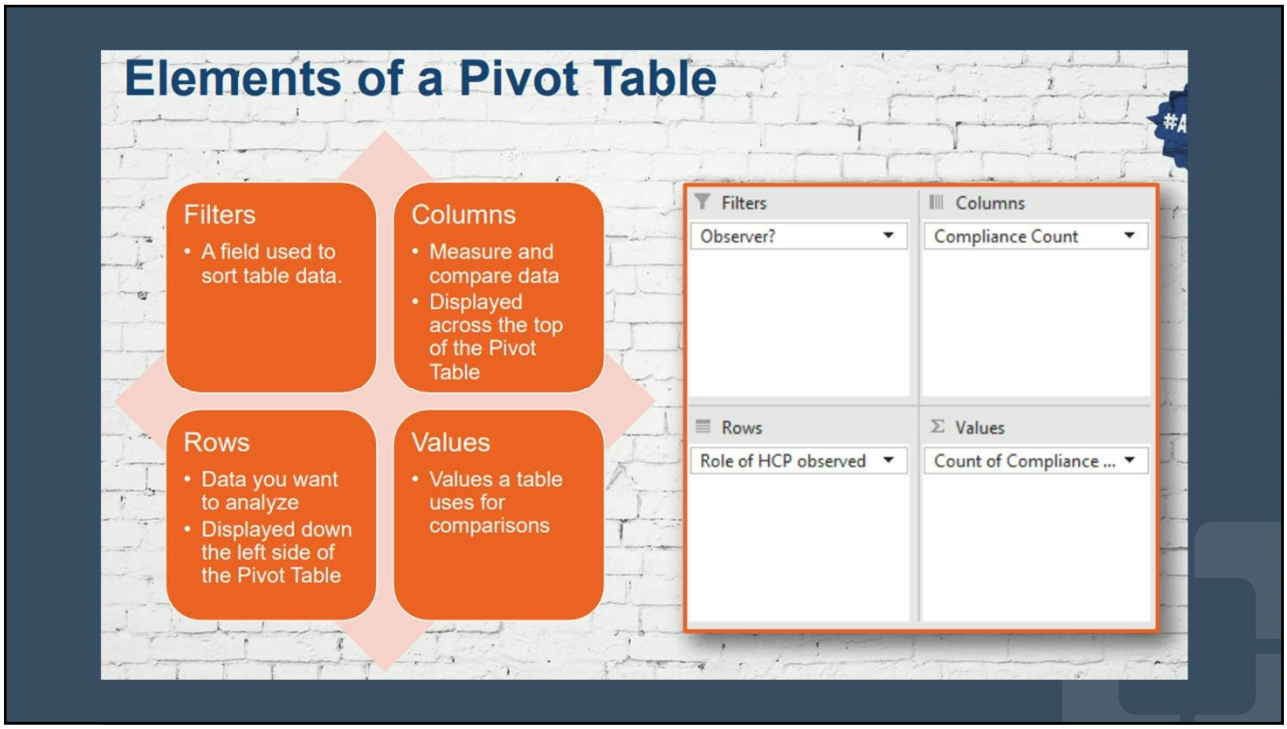

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ONLINE STATISTICAL TOOLS, TUTORIALS, AND SKILL-BUILDERS

- StatPages: https://statpages.info/
  - Provides links to a wide variety of statistics resources, including descriptive statistics, inferential statistics, statistical software, and selection of analyses.
- Simple Interactive Statistical Analysis (SISA): https://www.quantitativeskills.com/sisa/index.htm
  - Provides statistics calculators, including options for frequency tables with descriptive statistics and graphs, and for measures of validity.
- OpenEpi: https://openepi.com/
  - A free set of statistical tools and calculators related to epidemiological research.
- EpiInfo: https://www.cdc.gov/epiinfo/user-guide/getting-started/acknowledgements.html
  - A free set of software tools, including statistical tools, developed by CDC.
- Khan Academy: https://www.khanacademy.org/math/statistics-probability/
  - A free course on statistics and probability with exercises and videos.
- UAB Libraries Data Visualization Tools: https://guides.library.uab.edu/datavistools
- University of Maryland School of Nursing: https://cf.son.umaryland.edu/NRSG795/V2/module11/subtopic5.htm
- QIMacros Six Sigma & SPC Excel Add-in: https://www.qimacros.com/control-chart/
  - SPC Charts - Lean Six Sigma Templates - Statistics - Data Mining
- Udemy: https://www.udemy.com/courses/
  - SPSS Masterclass, SAS Programming BASE Certification Course for SAS Beginners, R For Data Science with real excercises!

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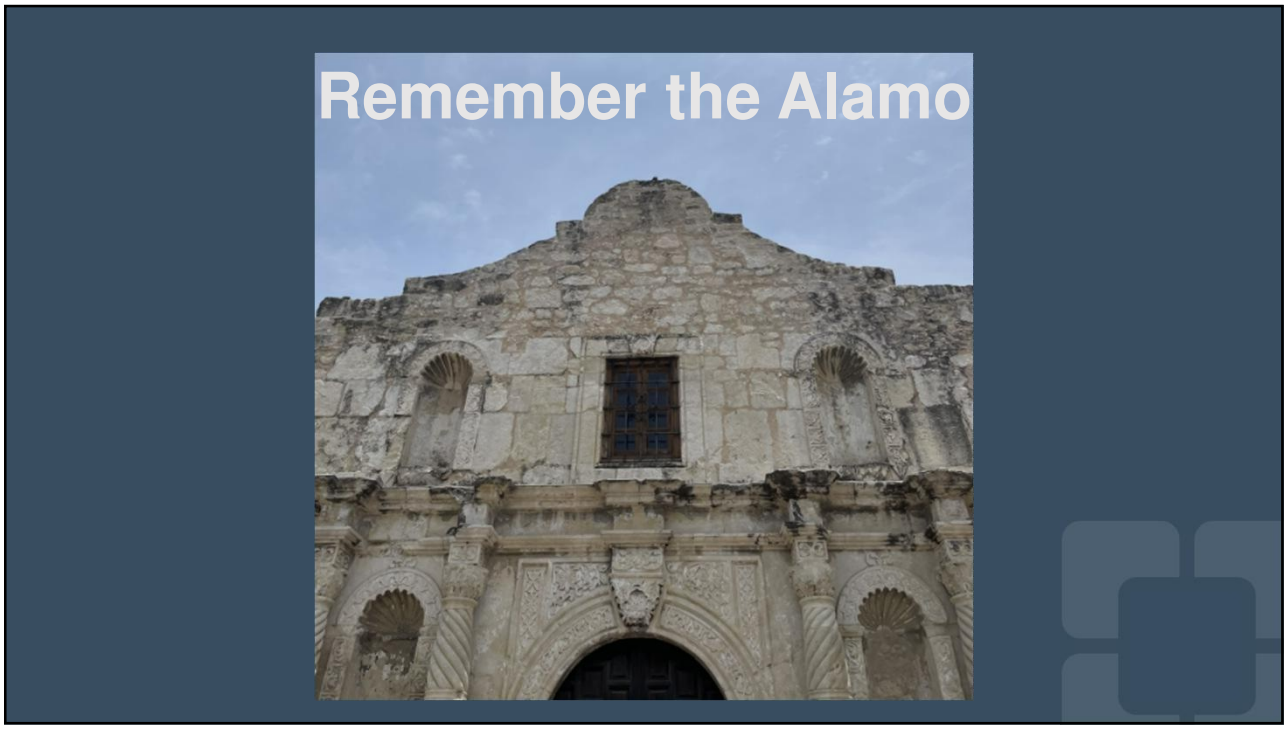

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HEROES OF THE ALAMO
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HEROES OF THE ALAMO
HEROES OF THE ALAMO
In Honor of Those
Alamo Heroes
Whose Names
History Did Not Record

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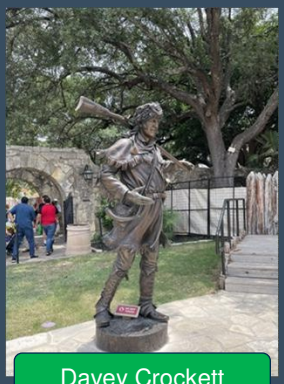

Davey Crockett

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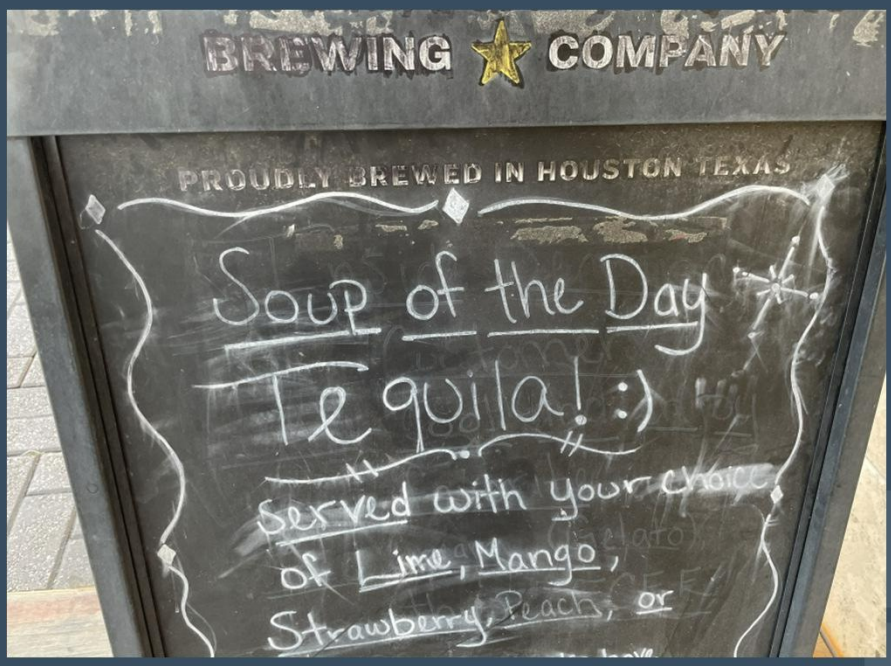

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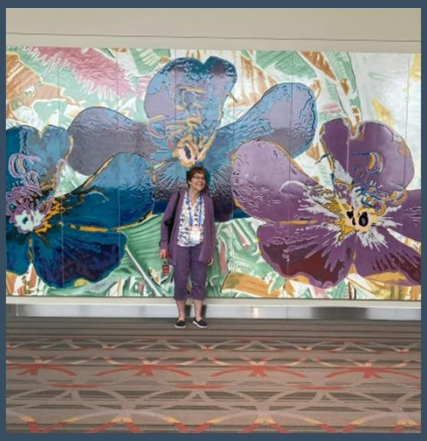

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