

# INFORMAL SCIENCE EDUCATION ASSOCIATION OF TEXAS 2022 ANNUAL CONFERENCE



## SUSTAINING COMMUNITY, BUILDING CONNECTION

MARCH 30-APRIL 1

HUSTON-TILLOTSON UNIVERSITY

Our conference host site is Huston-Tillotson University, a Historically Black University with roots dating back to 1875 and a vision of a connected world where diversity of thought matters. The 23-acre campus is located one mile from downtown in East Austin.



**#ISEATX2022**

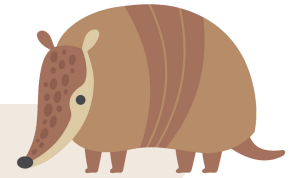


**@TexasInformalScience**

**texasinformalscience@gmail.com**

# SCHEDULE AT A GLANCE

## WEDNESDAY, MARCH 30



- 12:00-3:00 p.m. Pre-Conference Field Trips\*
- 2:00-4:00 p.m. Registration at DoubleTree By Hilton Austin - University Area
- 4:30-5:00 p.m. ISEA 101 at Pease Park
- 5:00-8:00 p.m. Opening Night Networking at Pease Park
- 8:30-10:00 p.m. Informal Fun at DoubleTree By Hilton Austin - University Area

## THURSDAY, MARCH 31

- 7:30-8:30 a.m. Name Badge Pick-up & Coffee Service
- 8:30 a.m. - 5:00 p.m. Silent Auction
- 8:30-9:40 a.m. Welcome & Opening Keynote
- 9:50 a.m. - 4:25 p.m. Concurrent Sessions & Featured Speaker
- 4:00-5:00 p.m. Networking Break
- 6:00-10:00 p.m. Closing Night Event at Meanwhile Brewery
- 10:00 p.m. Informal Fun at DoubleTree By Hilton Austin - University Area

## FRIDAY, APRIL 1

- 8:00-9:30 a.m. Auction Pick-up & Coffee Service
- 8:30-9:30 a.m. Concurrent Sessions
- 9:40-11:30 a.m. Closing Keynote & Business Meeting
- 1:00-4:00 p.m. Post-Conference Field Trips\*

\*Pre-registration required



# CONFERENCE HEALTH POLICIES

In order to have the safest conference experience possible for attendees, presenters, and the Austin community, the following COVID protocols will be in place:

- All participants are required to show either proof of COVID-19 vaccination, or a negative COVID-19 test performed no earlier than March 28, 2022. This applies to all attendees, presenters, exhibitors, and ISEA board members.

At registration you will be able to select one of the following lanyards based on your comfort level for interactions while at the conference:

- Red: Please maintain 6' social distance.
- Yellow: Still cautious. Please ask first.
- Green: Open to all interactions.

Masks are required for all indoor spaces on the Huston-Tillotson University campus per university policy. Masks will be made available to anyone who needs one. For more information regarding COVID-19 policies at Huston-Tillotson University, visit the [Safe and Healthy Rams](#) page. While not at the university, masks are encouraged but not required.

Thank you for your cooperation in making this conference a success.

# FEATURED SPEAKERS

**THURSDAY, MARCH 31**

**DR. AMANDA MASINO**

**OPENING KEYNOTE, 8:40 A.M.**

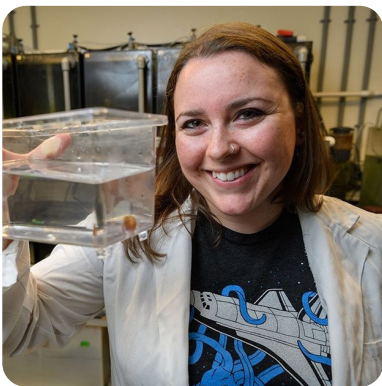


Dr. Amanda Masino is Associate Professor of Biology and Chair of Natural Science at Huston-Tillotson University (HT). Dr. Masino directs HT's new Environmental Justice major, co-founded and organizes HT's annual environmental justice conference, the Building Green Justice Forum, and mentors the environmental student group, Green is the New Black.

**FRIDAY, APRIL 1**

**DR. SARAH MCANULTY**

**CLOSING KEYNOTE, 9:40 A.M.**



Dr. Sarah McAnulty is a squid biologist and science communicator. She received her Ph.D. in molecular and cell biology working on Hawaiian bobtail squid symbiosis in 2019. She is the executive director of Skype a Scientist, a non-profit that connects over 10,000 classrooms to scientists every year. She is a prolific science communicator with an active presence on Twitter, Instagram, YouTube, and TikTok. She's been featured by Nature, Forbes, NPR Shortwave, along with many others, for her work.

**THURSDAY, MARCH 31**

**LAURA HUERTA MIGUS**

**1:15 P.M.**



Laura Huerta Migus was appointed Deputy Director, Office of Museum Services, in July 2021. She comes to the Institute of Museum and Library Services following her tenure as Executive Director of the Association of Children's Museums, the world's largest professional society promoting and advocating on behalf of children's museums and children's museum professionals. Laura has been devoted to the growth and education of children, particularly those from underserved and under-resourced communities.

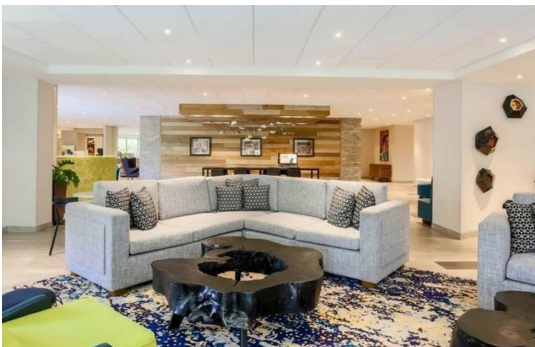


# CONFERENCE SITES

## HUSTON-TILLOTSON UNIVERSITY

900 Chicon St, Austin, TX 78702

Parking: Concho Street lot (#25 on campus map)



## DOUBLETREE BY HILTON AUSTIN-UNIVERSITY AREA

1617 North Interstate 35, Austin, TX 78702

Parking: \$25/day, self-pay

## TUDOR COTTAGE & TERRACE AT PEASE PARK

1100 Kingsbury St, Austin, TX 78703

Parking: Small lot and limited street parking at the front of the park. *Ride shares recommended.*



## MEANWHILE BREWING CO.

3901 Promontory Point Dr, Austin, TX 78744

Parking: plenty of public parking available

# WEDNESDAY SCHEDULE

## Pre-Conference Field Trips

12:00-3:00 p.m.



### **Green School Park at Reilly Elementary**

405 Denson Dr, Austin, TX 78752

Tour one of the Green School Parks that create rich nature environments in areas of Austin that lack nature access.



### **The Oakwood Cemetery Eco-Tour**

1601 Navasota St, Austin, TX 78702

Visit one of Austin's oldest cemeteries with Austin Parks and Recreation Department's Preservation Planner and Cultural Resources Specialist on a walking tour.

## Registration

2:00-4:00 p.m.

### **DoubleTree By Hilton Austin-University Area, Lobby**

Check in to receive your conference name badge. Registration for payment in-person will be available.

Note: hotel check-in begins at 3:00 p.m.

## ISEA 101: Newcomers Unite!

4:30-5:00 p.m.

### **Pease Park, Tudor Cottage & Terrace**

Join Erin Shields, ISEA Past President, for an introduction to ISEA and what to expect at this year's conference.

## **Opening Night Networking**

**5:00-8:00 p.m.**

### **Pease Park, Tudor Cottage & Terrace**

Kick off the conference at the beautiful Tudor Cottage and Terrace located in Kingsbury Commons at Pease Park. Enjoy a BBQ chicken dinner followed by dessert bites (vegetarian option available). Registration will be available. Scholarship recipients will meet after dinner.

**5:30 - Opening Remarks**

**6:00 - ISEA Bingo**

**7:30 - Scholarship Meeting**

## **Informal Fun: Game Night!**

**8:30-10:00 p.m.**

### **DoubleTree By Hilton Austin-University Area, University Club Room**

Join the ISEA Board for some informal fun at the conference hotel. Bring your favorite board or card game to play with other attendees.



# THURSDAY SCHEDULE

**Name Badge Pick-up & Coffee Service 7:30 a.m.**

**Huston-Tillotson University, Agard-Lovinggood Admin Bldg.  
Hallway in Front of Agard-Lovinggood Auditorium**

Grab some coffee before the opening session and get a glimpse of the university campus!

**"Weird but Wonderful  
Treasures" Silent Auction 8:30 a.m. - 5:00 p.m.**

**Huston-Tillotson University, Agard-Lovinggood Admin Bldg.  
Hallway in Front of Agard-Lovinggood Auditorium**



Snag cool, weird and nerdy items to support the annual ISEA Conference scholarship fund! You won't want to miss the chance to claim the oddity-filled basket curated by ISEA Board Members or bid on taking Rigor on your adventures for the next year! The silent auction will run until 5:00 p.m. Auction winners may purchase and pickup their items Friday morning.



## **Welcome & Opening Keynote**

**8:30-9:40 a.m.**

**Huston-Tillotson University, Agard-Lovinggood Admin Bldg.  
Agard-Lovinggood Auditorium**

This opening session features a welcome by *Justine Kies*, ISEA President, and an address from keynote *Dr. Amanda Masino*, Associate Professor of Biology and Chair of Natural Science at Huston-Tillotson University.

## **Concurrent Sessions #1**

**9:50-10:50 a.m.**

### **PRESENTATION**

**Empowering Not Engaging - A Look at Rural and Remote  
STEM Learning Ecosystems**

Agard-Lovinggood Auditorium

Rural Activation and Innovation Network will share insights from a multiyear study in rural communities on pathways to develop STEM Learning Ecosystems. This study provided avenues into working with under-resourced communities to shift STEM Identity and Literacy.

**Presenter: Kalman Mannis, Arizona Science Center**

### **WORKSHOP SESSION**

**Build Your Own Culturally Responsive Outdoor Science Activity**

Classroom #1, Agard-Lovinggood Admin Bldg.

We developed an activity template that highlights the importance of representing diversity to promote inclusion in science and reconnection with the environment. Attendees will have the opportunity to use this template to create their own culturally responsive outdoor science activity.

**Presenters: Rachel Lincoln and Kristy Daniel, Texas State  
University**

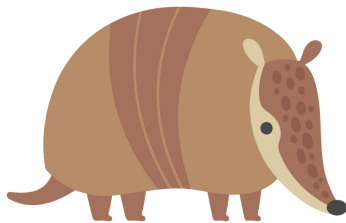
**HANDS-ON/DEMONSTRATION SESSION**

**Dark Energy Explorers-Using Citizen Science to Enhance the Hobby-Eberly Telescope Dark Energy Experiment**

Classroom #2, Agard-Lovinggood Admin Bldg.

Interested in a fun way to engage the public in astronomy? Dark Energy Explorers is a citizen science project for all backgrounds, where participants search for galaxies in the universe. You will have the opportunity to explore this tool and learn how to use it in your own science education programming.

**Presenters: Lindsay House and Keely Finkelstein, University of Texas at Austin**



## **Concurrent Sessions #2      11:00 a.m. - 12:00 p.m.**

### **PANEL SESSION**

**How Can Your Organization Get Involved With Innovative, Place-Based Math Learning in Informal Settings? Come Learn About the NSF-Funded, Mathfinder App Development Project!**

Agard-Lovinggood Auditorium

This panel discussion presents work being done on a unique project funded by the National Science Foundation (Advancing Informal Science Learning) and being led by Southern Methodist University and the talkSTEM organization.

*Panel Participants are from Dallas Zoo, Dallas Arboretum, St Philip's School & Community Center, STEM Center of Excellence (Girl Scouts of Northeast Texas), Frontiers of Flight Museum, and Southern Methodist University*

### **PRESENTATION**

**Whodunit? Using a Local Mystery to Teach Children About Water Pollution and Connect to Their Community**

Classroom #1, Agard-Lovinggood Admin Bldg.

Stormwater pollution contaminates drinking water resources and wildlife habitat. To raise student awareness and strengthen community connections, we created a teaching video inviting students to solve a mystery on a school campus. View the video and evaluate this virtual youth education program.

**Presenter: Betsy Marsh, Tarrant Regional Water District**

**PRESENTATION****Sowing a Community of Stars: Building Volunteer Networks to Preserve Dark Skies**

Classroom #2, Agard-Lovinggood Admin Bldg.

How do you preserve something as vast as our view of the stars? Volunteers! The Hill Country Alliance will share how we have grown dark sky organizations across nineteen counties. We'll share night sky programming resources, lessons learned, and a framework for large-scale volunteer collaboration.

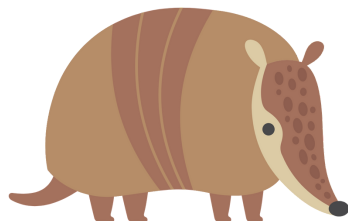
**Presenters: Leah Cuddeback and Dawn Davies, Hill Country Alliance**

**WORKSHOP SESSION****Sustaining Partnerships to Strengthen Informal Learning Communities**

Classroom #3, Agard-Lovinggood Admin Bldg.

An innovative approach to purposeful partnership development between informal learning centers and school districts helping to deter summer learning loss and filling learning gaps. Design a roadmap to help meet the needs of formal education centers to build sustainable, impactful long-term programs.

**Presenters: Amber Middlebrook, Mahek Shaikh and Elise Gonzalez, Science Mill**





## **Lunch**

**12:00-1:00 p.m.**

**Huston-Tillotson University  
Davage-Durden Student Union**

Enjoy a courtesy boxed lunch of a turkey or ham sandwich, or a vegetarian hummus wrap at the Union (#5 on campus map).

## **Featured Speaker Session**

**1:15-2:15 p.m.**

**Huston-Tillotson University, Agard-Lovinggood Admin Bldg.  
Agard-Lovinggood Auditorium**

Take a break from concurrent sessions with a virtual talk from featured speaker *Laura Huerta Migus*, Deputy Director, Office of Museum Services, Institute of Museum and Library Services. Her talk will be followed by a brief Q&A.

## **Concurrent Sessions #3**

**2:25-4:25 p.m.**

### **WORKSHOP SESSION**

**Opening “OUT” Doors: Providing Nature Accessibility to  
Combat the Growing Nature Deficit**

Classroom #1, Agard-Lovinggood Admin Bldg.

With the growing nature deficit seen in children and adults, many communities need guidance to engage with nature. As informal and science educators, we are here to open doors and provide those experiences for them in a safe, fun, and controlled environment.

**Presenters: Katie Boughal and August Vandiver, City Pearland  
Parks and Recreation**

**HANDS-ON/DEMONSTRATION SESSION**

**Developing Scientific Mindsets Through Questions, Inquiry and the Success of Failure**

Classroom #2, Agard-Lovinggood Admin Bldg.

Developing scientific mindsets through questions, inquiry and the success of failure.

***Presenter: Alfred Daniel Olivas, INSIGHTS Science and Discovery***

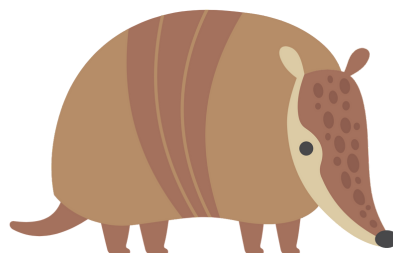
**HANDS-ON/DEMONSTRATION SESSION**

**Mindfulness Matters - How Mindfulness and Curiosity Open the Doors for STEM Education**

Lawn in Front of Davage-Durden Student Union

Mindful practices boost creativity & complement the learning and thinking process for students. We will showcase mindfulness and curiosity activities that open doors to STEM mindsets. With just a few short minutes educators can help students reduce stress and excel in the classroom.

***Presenters: Lari Jo W Edwards, Your Inner Naturalist, and Christina Campos, West Oso ISD***



## **Networking Break**

**4:00-5:00 p.m.**

**Huston-Tillotson University, Agard-Lovinggood Admin Bldg.  
Agard-Lovinggood Auditorium**

This session features posters and a slideshow to celebrate 25 years of ISEA. It is also the last chance to bid on silent auction items!

## **Closing Night Event**

**6:00-10:00 p.m.**

**Meanwhile Brewing Co.**

Toast to informal science with good food and live music! Attendees will choose their own meal from select food trucks at Meanwhile. Beer is available for purchase on your own.

**6:00 - Dinner**

**7:00 - Music by Belldiver, and Ryan DeSiato**

## **Informal Fun!**

**10:00 p.m.**

**DoubleTree By Hilton Austin-University Area,  
University Club Room**

Keep the networking going with some more informal fun at the conference hotel.





# FRIDAY SCHEDULE

**Auction Item Pick-up & Coffee Service** **8:00 a.m.**

**Huston-Tillotson University, Agard-Lovinggood Admin Bldg.  
Agard-Lovinggood Auditorium**

Grab some coffee before the final concurrent sessions. Silent auction winners can pick up their items. Who will take Rigor home for the next year?!

**Concurrent Sessions #4** **8:30-9:30 a.m.**

## **PRESENTATION**

### **Science Museum Futures Project**

Classroom #1, Agard-Lovinggood Admin Bldg.

Charlie Walter was a participant in the Science Museums Futures project, an NSF funded initiative led by John Falk. This session will share a series of possible future scenarios that were developed for creating more sustainable, community focused, free-choice learning institutions.

**Presenter: Charlie Walter, Mayborn Museum, Baylor University**



## **WORKSHOP**

### **STEM and the Art of Food Preservation**

Classroom #2, Agard-Lovinggood Admin Bldg.

In early 2020 food security arose as a significant issue. Along the Mexican border vegetables were being sent to the dump due to transportation bottlenecks. This breakout looks at a case study in SE AZ where the vegetables were channeled to foodbanks, who created classes for food preservation.

**Presenter: Kalman Mannis, Arizona Science Center**

## **Closing Keynote**

**9:40-10:40 a.m.**

**Huston-Tillotson University, Agard-Lovinggood Admin Bldg.  
Agard-Lovinggood Auditorium**

This closing session features an address from keynote *Dr. Sarah McAnulty*, squid biologist, science communicator, and executive director of Skype a Scientist.

## **Business Meeting**

**10:45-11:30 a.m.**

**Huston-Tillotson University, Agard-Lovinggood Admin Bldg.  
Agard-Lovinggood Auditorium**

Join ISEA for the annual business meeting. This session includes final surveys, details on joining the ISEA Board, and what Rigor has been up to this past year. Finally, get a sneak peek at next year's conference! Where in Texas will we reconvene 2023?



### **Festival Beach Food Forest**

29 Waller St, Austin, TX 78702

An oasis in the middle of downtown Austin, Texas, the Festival Beach Food Forest is an edible forest garden where visitors can openly forage and enjoy fresh food on the shores of Lady Bird Lake.



### **The Campsite at Shield Ranch**

1601 Navasota St, Austin, TX 78702

Visit the artfully designed and sustainably built off-grid, open-air pavilion, screened shelters, and miles of hiking trails just 18 miles from downtown Austin on a 6,800 historic family ranch provides year-round nature-immersion programming for the community opening to the public in fall 2022.



### **Meadows Center for Water and the Environment at Texas State University**

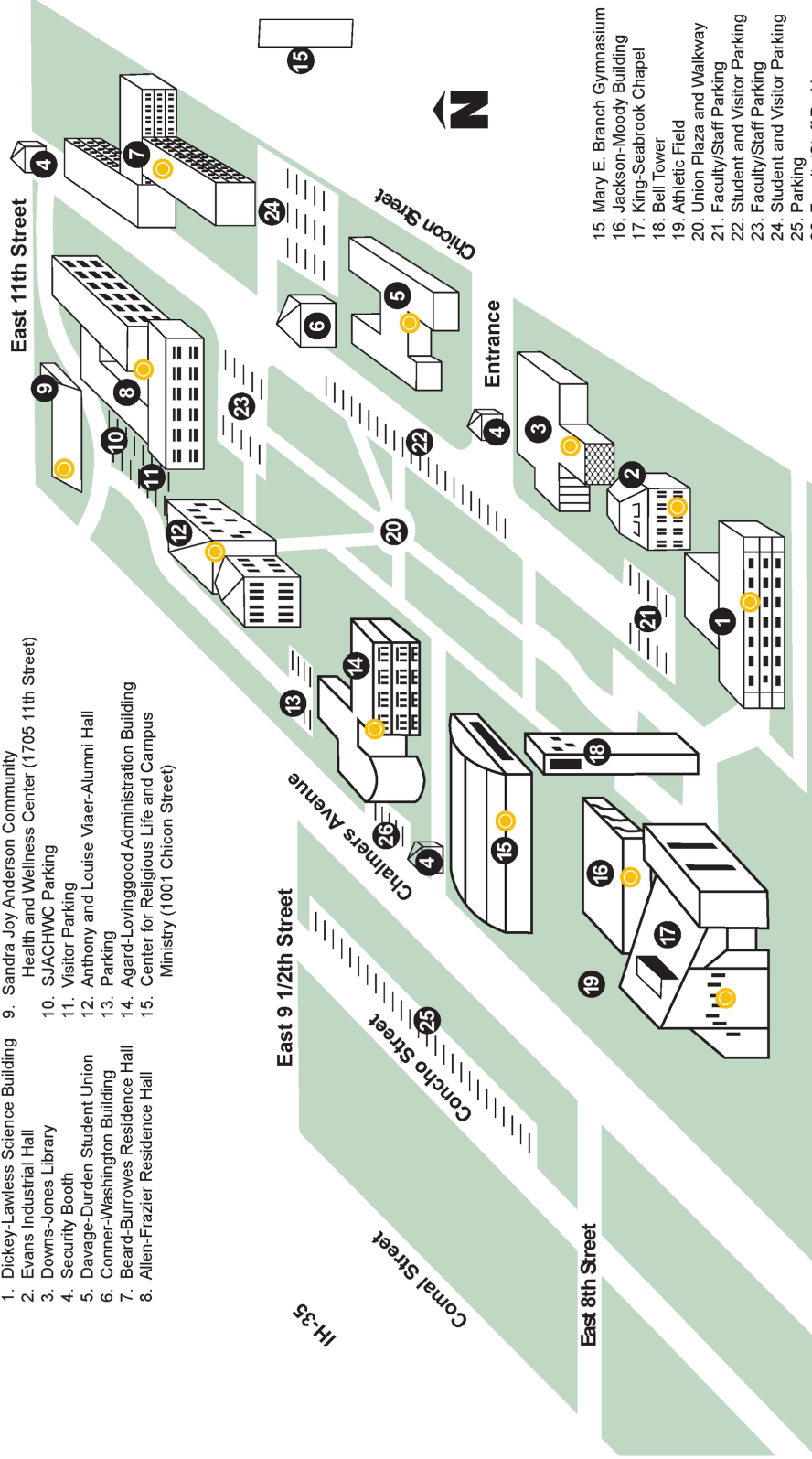
201 San Marcos Springs Dr, San Marcos, TX 78666

Meadows Center for Water and the Environment at Texas State University is a hub of research and leadership that ensures clean, abundant water for the environment and all humanity. Visit the site Spring Lake – one of the largest artesian springs in the world – on a historic glass bottom boat tour.



# Huston-Tillotson University Campus Map

1. Dickey-Lawless Science Building
2. Evans Industrial Hall
3. Downs-Jones Library
4. Security Booth
5. Davage-Durden Student Union
6. Conner-Washington Building
7. Beard-Burrowes Residence Hall
8. Allen-Frazier Residence Hall
9. Sandra Joy Anderson Community Health and Wellness Center (1705 11th Street)
10. SJACHWC Parking
11. Visitor Parking
12. Anthony and Louise Vaier-Alumni Hall
13. Parking
14. Agard-Lovingood Administration Building
15. Center for Religious Life and Campus Ministry (1001 Chicon Street)



15. Mary E. Branch Gymnasium
16. Jackson-Moody Building
17. King-Seabrook Chapel
18. Bell Tower
19. Athletic Field
20. Union Plaza and Walkway
21. Faculty/Staff Parking
22. Student and Visitor Parking
23. Faculty/Staff Parking
24. Student and Visitor Parking
25. Parking
26. Faculty/Staff Parking

Wireless Internet Access Point

# Austin, Texas

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