Card Sorting Report

Shedd Aquarium

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Table of Contents

EXECUTIVE SUMMARY	3
DESCRIPTION OF CARD SORT	4
FINDINGS AND RECOMMENDATIONS	5
ALTERNATE INTERPRETATIONS OF LABELS	5 6 6
CARD SORTING DATA	8
CONVENTIONS CARD SORT 1 CARD SORT 2 CARD SORT 3 CARD SORT 4 CARD SORT 5 CARD SORT 6	8 10 12 14 16
LIST OF CARDS	20

Executive Summary

An exploratory card sorting exercise was conducted to gain a better understanding of how users grouped the Shedd Aquarium website's content into a hierarchical structure. The insights gained from this exercise will provide important guidance in both our restructuring and re-labeling of content.

The findings of the card sort are organized by:

- Alternate Interpretations of Labels
 The ambiguous wording of these labels indicates a need for a new label and/or a reorganizing of content.
- Content Difficult to Categorize; Potential Labeling Concerns
 These items represent either an awkward organization of content, or unrecognizable consistently-unrecognizable terminology.
- Content Expansion
 Users occasionally searched for content they couldn't find. In some cases, this was a consequence of lack of clarity in the labels; in other cases, the content was simply missing.
- Cross-Linking/ Content Integration
 Cards that seemed to belong in more than one category strongly indicate a potential for cross-linking their content across multiple pages.
- Groupings Established for Content; Potential Navigation
 Content repeatedly grouped together is ideal for establishing site architecture;
- Separate (Non-Grouped) High-Level Pages; Potential Global Navigation
 These pages are not easily grouped but are integral to usability and are most likely to function as a utility.

4

Description of Card Sort

Card sorting conducted: 10/4/2015 - 10/9/2015

Testing occurred at: Participants homes, The Morning Owl (Milan, MI),

Leo's Coney Island (Saline, MI), Zingerman's

Deli (Ann Arbor, MI), Bigby's Coffee (Ann Arbor, MI)

Number of tests: 6

Participants per test: One user per card sort

Test duration: Generally between 30 and 45 minutes

Number of cards: 60

Type of card sort: Exploratory (users grouped grouped cards with no

headings to guide them. They then assigned their own

labels to their groups.)

Findings and Recommendations

Alternate Interpretations of Labels

- FAQs were grouped together by several users. This suggests the need for one FAQ for general questions about the aquarium, and alternate labels for questions under subtopics – for example, 'Field Trip Fact Sheet', as opposed to 'Field Trip FAQs.'
- 'Educator Map was grouped under various headings according to who the user believed was the implied audience. For example, one user placed it under a heading called 'Youth.' Another put it under a heading called, 'Educators.' Revising the label to, 'Maps for Educators' would be helpful.
- Travel with Shedd was placed under a heading of "Exhibits," 'Research Trips', and 'Trips and Events for Kids.' A term such as 'vacation' may help clarify the meaning.
- Beluga was not always understood to be a whale. Simply changing this label to, "Beluga Whales" would address this problem.

Content Difficult to Categorize - Potential Labeling Concerns

- Abbott Oceanarium (in 4 card sorts)
- 4-D Experience (in 6 card sorts)
- Extraordinary Experiences (in 6 card sorts)
- Aguarium Microbiome Project (in 5 card sorts)
- Ten Fun Finds (in 3 card sorts)
- Polar Play Zone (in 3 card sorts)
- Connecting to the Standards (in 4 card sorts)
- Sustainable Gardens Map (in 6 card sorts)
- Caribbean Reef (in 5 card sorts)
- Wild Reef (in 5 card sorts)
- On the Reef (in 6 card sorts)
- On the Great Lakes (4 card sorts)
- On the River (in 6 card sorts)
- Frogs (in 4 card sorts)
- Conservation Videos & Educator Guides (in 1 card sort)
- Fish Migration Mysteries (in 6 card sorts)
- Stingray Touch (in 6 card sorts)

Content Expansion

After noting the disparity of a large number of unique animals contrasting with two
different labels referencing stingrays (Stingrays and Stingray Touch) and
seahorses (Seahorses and Saving Seahorses in Southeast Asia), nearly all users
expected to see more sub-labels under the various animals.

Cross-Linking / Content Integration

- Provide cross links between research projects, conservation projects, and where applicable, animal pages.
- Provide cross links between animal pages and exhibit pages.

Groupings Established for Content - Potential Global Navigation

- FAQs
- For Teens / Teen Learning Lab
- Youth / Shedd Kids / Kids
- Educational Opportunities / Educators / Education
- Videos / Media Online/Electronic
- Events
- Directory/ Aquarium Info
- Abbott Oceanarium Info / Abbott Oceanarium Directory
- Habitats
- Reefs
- Bahamas
- On the River/Lakes
- Sting Rays
- Fun Facts
- Amphibians
- Animals at Shedd / Other Animals / Species / Identifying Species
- Arctic Species
- Fresh Water
- · Warm Water Reefs
- Invasions / Invasive Species
- Saving Species / Endangered Species / Endangered Waters
- Science at Work
- Wetlands
- Tropics
- Fish / Where are the Fish? / Sea Critters
- Mammals
- Salt Water Creatures
- Belugas
- Exhibits / Main Exhibits

7

- Fun Activities
- Research Trips
- Overnights
- Field Trips / Trips & Events for Kids
- Experiences / Extraordinary Experiences
- Aquarium Microbiome Project
- · Connecting to the Standards

Separate (Non-Grouped) High-Level Pages - Potential Global Navigation

- Volunteering
- Matching Gift Directory
- Exhibit Guides

8

Card Sorting Data

Conventions

Boldface text on the left lists the labels users created for the groups they made. The cards in the groups are then listed in plain text in the column to the right. Text in the middle represent any subgroups users made. Text to the left comprises potential global navigation, and text in the middle indicates possible sub-navigation.

Card Sort 1

Suggested Label Cards in Group

Reefs Caribbean Reef

Wild Reef On the Reef

Bahamas Studying Iguanas in the Bahamas

Bahamas: Tracking Nassau Groupers Connecting the Conchs in the Bahamas

On the River/Lakes On the Great Lakes

Amazon Rising
On the River

Stingrays Stingrays

Stingray Touch

Invasive Species Surveying Endangered, Invasive Species

Invasive Crayfish

Aquarium InfoMatching Gift Directory

Exhibit Guides Volunteering FAQs

Aquarium Microbiome Project Connecting to the Standards

Abbott Oceanarium Info
Abbott Oceanarium

Mudpuppy Research

Sea Otters Sea Lions Jellies Sharks

Seahorses & Seadragons

Suggested Label Cards in Group

Penguins Turtles

Fish Migration Mysteries

Dolphins Octopuses

Amphibians Amphibian Experts

Amphibians Defined Amphibian Stories Amphibian Photos Conserve Amphibians

Frogs

Species Info Species Fact Sheets

Species Highlights

Overnights Spooky Seas Overnight

Overnight FAQs

Educators Conservation Videos & Educator Guides

Educator Map

Field Trips Field Trip FAQs

Field Trip Orientation Video

Saving Species Project Guyana: Saving Arapaimas and Wetlands

Saving Seahorses in Southeast Asia

Experiences 4-D Experience

Extraordinary Experiences Sustainable Gardens Map Multimedia Downloads

Teen Learning Lab Teen Learning Lab Events

Teen Learning Lab Calendar Teen Learning Lab FAQs

BelugasBinational Partnership Protects Belugas

Belugas

Shedd Kids Shedd Kids Care in the Classroom

Shedd Kids Care at Home

Polar Play Zone Ten Fun Finds

User Comments:

• Expressed expectation for further subgroups under individual species, in accordance with Stingrays and Stingray Touch.

10

Card Sort 2

Suggested Label Cards in Group

Media Online/Electronic Multimedia Downloads

Conservation Videos & Educator Guides

Field Trip Orientation Video

Tropics Studying Iguanas in the Bahamas

Wild Reef Amazon Rising

Bahamas: Tracking Nassau Groupers

On the Reef

Project Guyana: Saving Arapaimas and Wetlands

Connecting the Conchs in the Bahamas

Caribbean Reef

Saving Seahorses & Seadragons

Fish Fish Migration Mysteries

Stingrays Sharks

Stingray Touch

FAQs Field Trip FAQs

Volunteering FAQs Overnight FAQs

Other Animals Surveying Endangered, Invasive Species

Invasive Crayfish Octopuses Jellies Penguins Turtles

Amphibians Amphibian Experts

Amphibian Photos Conserve Amphibians Amphibian Stories

Frogs

Mudpuppy Research Amphibians Defined

Youth Shedd Kids Care at Home

Educator Map

Connecting to the Standards Teen Learning Lab Events Teen Learning Lab FAQs

Shedd Kids Care in the Classroom

Spooky Seas Overnight

11

Suggested Label Cards in Group

Ten Fun Finds

Teen Learning Lab Calendar

Exhibits Exhibit Guides

Abbott Oceanarium Travel with Shedd

Aquarium Microbiome Project Extraordinary Experiences

Species Highlights Species Fact Sheets 4-D Experience

Sustainable Gardens Map

Polar Play Zone On the River

Matching Gift Directory

Mammals Dolphins

Binational Partnership Protects Belugas

Sea Otters Sea Lions Belugas

12

Card Sort 3

Suggested Label Cards in Group

Main Exhibits Ten Fun Finds

Exhibit Guides

Fish Migration Mysteries Aquarium Microbiome Project

Abbott Oceanarium Amazon Rising Wild Reef On the Reef Caribbean Reef On the River

On the Great Lakes

Fun Activities Polar Play Zone

Sustainable Gardens Map

Amphibians Amphibians Defined

Conserve Amphibians Amphibian Stories Amphibian Photos Amphibian Experts

Frogs

Species Stingrays

Stingray Touch Sea Lions Dolphins Jellies Penguins Sharks

Seahorses & Seadragons

Octopuses Turtles Sea Otters

Species Highlights Species Fact Sheets

Aquarium Info Matching Gift Directory

Volunteering FAQs

Connecting to the Standards

Invasive Species Surveying Endangered, Invasive Species

Invasive Crayfish

Belugas

Educational Opportunities Multimedia Downloads

13

Suggested Label

Cards in Group

Shedd Kids Care at Home

Conservation Videos & Educator Guides

4-D Experience

Teen Learning Lab FAQs
Teen Learning Lab Events
Teen Learning Lab Calendar
Shedd Kids Care in the Classroom

Educator Map

Research Trips

Overnight FAQs Field Trip FAQs

Field Trip Orientation Video Spooky Seas Overnight

Saving Seahorses in Southeast Asia

Mudpuppy Research

Bahamas: Tracking Nassau Groupers Connecting the Conchs in the Bahamas Studying Iguanas in the Bahamas

Project Guyana: Saving Arapaimas and Wetlands

Binational Partnership Protects Belugas

Travel with Shedd

Extraordinary Experiences

User Comments:

 User 3 put all media-related labels together. Although atypical, this relationship may warrant some level of integration.

Card Sort 4

Suggested Label Cards in Group

FAQs Matching Gift Directory

Field Trip FAQs Volunteering FAQs Overnight FAQs

For Teens Teen Learning Lab Events

Teen Learning Lab Calendar Teen Learning Lab FAQs

Videos Conservation Videos & Educator Guides

Multimedia Downloads Field Trip Orientation Video

Events Travel with Shedd

Extraordinary Experiences Spooky Seas Overnight Shedd Kids Care at Home

Shedd Kids Care in the Classroom

Directory Educator Map

Sustainable Gardens Map

Abbott Oceanarium 4-D Experience Stingray Touch Polar Play Zone Exhibit Guides

Habitats On the Great Lakes

On the River Amazon Rising On the Reef Caribbean Reef Wild Reef

Fun Facts Species Highlights

Ten Fun Finds

Connecting to the Standards Fish Migration Mysteries Species Fact Sheets

Amphibians Amphibian Experts

Amphibians Defined Amphibian Stories Amphibian Photos

15

Suggested Label Cards in Group

Conserve Amphibians

Animals at Shedd Sea Lion

Penguins Jellies Stingrays Dolphins Sea Otters

Seahorses & Seadragons

Turtles Belugas Sharks Frogs Octopuses

Invasions Surveying Endangered, Invasive Species

Invasive Crayfish

Science at Work Aquarium Microbiome Project

Saving Seahorses in Southeast Asia Binational Partnership Protects Belugas

Project Guyana: Saving Arapaimas and Wetlands

Wetlands Mudpuppy Research

Studying Iguanas in the Bahamas Connecting the Conchs in the Bahamas Bahamas: Tracking Nassau Groupers

User Comments:

• Wondered if Teen Learning Lab Events were one-time events or ongoing events.

 Debated over whether Conserve Amphibians should be placed with 'Amphibians' or with other 'Conservation Projects.'

Card Sort 5

Suggested Label Cards in Group

Endangered Waters Sustainable Gardens Map

Project Guyana: Saving Arapaimas and Wetlands

Saving Seahorses in Southeast Asia

Caribbean Reef Wild Reef On the Reef Amazon Rising On the Great Lakes

Invasive Species Surveying Endangered, Invasive Species

Invasive Crayfish

Where are the Fish? Fish Migration Mysteries

Mudpuppy Research

Aquarium Microbiome Project

On the River

Bahamas: Tracking Nassau Groupers Connecting the Conchs in the Bahamas Studying Iguanas in the Bahamas Binational Partnership Protects Belugas

Abbott Oceanarium

Aquarium Info Matching Gift Directory

Multimedia Downloads

Educator Map Volunteering FAQs

Spooky Seas Overnight

Connecting to the Standards Connecting to the Standards

Kids Shedd Kids Care at Home

Shedd Kids Care in the Classroom

Field Trip Orientation Video

Conservation Videos & Educator Guides

Exhibit Guides

Extraordinary Experiences

4-D Experience Ten Fun Finds Polar Play Zone

Teen Learning Lab FAQs
Teen Learning Lab Events
Teen Learning Lab Calendar

Trips & Events for Kids Field Trip FAQs

17

Suggested Label Cards in Group

Overnight FAQs Travel with Shedd

Identifying Species Species Highlights

Species Fact Sheets

Amphibians Amphibians Photos

Amphibian Stories Conserve Amphibians Amphibians Defined Amphibians Experts Stingray Touch

Frogs

Sea Critters Octopuses

Dolphins Turtles Penguins Sharks

Seahorses & Seadragons

Jellies Sea Otters Belugas Sea Lions Stingrays

User Comments:

- Confused by Shedd Kids Care at Home and Shedd Kids Care in the Classroom.
- Similarly struggled to organize the various project labels by conservation efforts or research.

18

Card Sort 6

Suggested Label Cards in Group

Arctic Species Polar Play Zone

> Sea Lions Penguins

Freshwater Fish Migration Mysteries

> Invasive Crayfish On the Great Lakes

Amphibians Amphibians Defined

> **Amphibians Photos Amphibians Experts Amphibians Stories** On the River

Conserve Amphibians Mudpuppy Research

Frogs **Turtles**

Endangered Species Dolphins

Belugas

Surveying Endangered, Invasive Species Binational Partnership Protects Belugas

Salt Water Creatures Sharks

Octopuses

Seahorses & Seadragon

Stingray Touch

Jellies Sea Otters

Species Highlights Species Fact Sheets

Stingrays

Volunteering Connecting to the Standards

Volunteering FAQs

Warm Water Reefs Connecting the Conchs in the Bahamas

> Wild Reef On the Reef Caribbean Reef

Bahamas: Tracking Nassau Groupers Studying Iguanas in the Bahamas

Suggested Label Cards in Group

Exhibit Guides Exhibit Guides

19

Matching Gift Directory Matching Gift Directory

Aquarium Microbiome Project Overnight FAQs

Aquarium Microbiome Project

Ten Fun Finds

Spooky Seas Overnight Multimedia Downloads

Education Travel with Shedd

Shedd Kids Care at Home

Shedd Kids Care in the Classroom

Educator Map

Conservation Videos & Educator Guides

Sustainable Gardens map Teen Learning Lab Events Teen Learning Lab FAQs Teen Learning Lab Calendar

Extraordinary Experiences Extraordinary Experiences

Amazon Rising

Saving Seahorses in Southeast Asia

Project Guyana: Saving Arapaimas and Wetlands

Abbott Oceanarium Abbott Oceanarium

Field Trip Orientation Video

Field Trip FAQs 4-D Experience

User Comments:

• Noted that "Surveying Endangered, Invasive Species" sounded like a header.

List of Cards

- Matching Gift Directory
- 2. Shedd Kids Care at Home
- Shedd Kids Care in the Classroom
- 4. Amazon Rising
- Caribbean Reef
- 6. Abbott Oceanarium
- 7. Polar Play Zone
- 8. Wild Reef
- 9. Amphibians Defined
- 10. Conserve Amphibians
- 11. Amphibian Stories
- 12. Amphibian Photos
- 13. 4-D Experience
- 14. Stingray Touch
- 15. Extraordinary Experiences
- 16. Travel with Shedd
- 17. Stingrays
- 18. Dolphins
- 19. Belugas
- 20. Frogs
- 21. Penguins
- 22. On the River
- 23. Jellies
- 24. On the Great Lakes
- 25. Sea Lions
- 26. Sea Otters
- 27. Sharks
- 28. Octopuses
- On the Reef
- 30. Seahorses & Seadragons
- 31. Turtles
- 32. Aquarium Microbiome Project
- 33. Surveying Endangered, Invasive Species
- 34. Invasive Crayfish
- 35. Fish Migration Mysteries
- 36. Mudpuppy Research
- 37. Binational Partnership Protects Belugas
- 38. Saving Seahorses in Southeast Asia
- 39. Project Guyana: Saving Arapaimas and Wetlands
- 40. Studying Iguanas in the Bahamas
- 41. Bahamas: Tracking Nassau Groupers
- 42. Connecting the Conchs in the Bahamas
- 43. Field Trip Orientation Video

- 44. Field Trip FAQs
- 45. Educator map
- 46. Ten Fun Finds
- 47. Connecting to the Standards
- 48. Exhibit Guides
- 49. Conservation Videos & Educator Guides
- 50. Spooky Seas Overnight
- 51. Overnight FAQs
- 52. Teen Learning Lab Calendar
- 53. Teen Learning Lab Events
- 54. Teen Learning Lab FAQs
- 55. Sustainable Gardens Map
- 56. Species Highlights
- 57. Species Fact Sheets
- 58. Multimedia Downloads
- 59. Amphibians Experts
- 60. Volunteering FAQs