MGT 3745 B: JS + HTML (DOM)

YOU DIDNT COME THIS FAR TO ONLY COME THIS FAR

AGENDA
September 7, 2023
(97 days = 13 weeks, 6 days)

- js review

- key terms (html, dom)

- in-class exercise

- assignments

Key Terms

Coding Syntax

<u><script></u> - tag is used to embed client-side JavaScript in HTML. The tag can contain JavaScript statements or references to an external script file through the src attribute

<u>DOM</u> - object model used by JavaScript to access and change all the elements of an HTML document

<u>HTML (Hyper Text Markup Language)</u> - standard markup language for Web pages

<u>JS DOM Elements</u> - object model used by JavaScript to access and change all the elements of an HTML document
getElementById()
getElementsByTagName()
getElementsByClassName()

<u>event listener</u> - method that attaches an event handler to the specified element

addEventListener()

Source: https://www.w3schools.com/tags/tag_script.asp
Source: https://www.w3schools.com/js/js_htmldom.asp
Source: https://www.w3schools.com/js/js_htmldom_elements.asp

Key Terms

Examples of Business Problems

searches (e.g., filtering) - processes and algorithms used to solve a search problem (finding "y" within "x")

sorting - ordering/categorizing data

counting - start/maintain a count of the number of iterations/cycles/instances

lists - start/maintain a structure of values

personalization - tailoring a service or a product to accommodate specific individuals, sometimes tied to groups or segments of individuals

robustness - ability of a computer system to cope with errors during execution and cope with erroneous input

Source: https://en.wikipedia.org/wiki/Search_problem
Source: https://en.wikipedia.org/wiki/Random_number_generation
Source: https://en.wikipedia.org/wiki/Personalization
Source: https://en.wikipedia.org/wiki/Robustness_(computer_science)

Key Terms

Coding Syntax

map() - creates a new array from calling a function for every array element

filter() - creates a new array filled with elements that pass a test provided by a function

callback - a function passed into another function as an argument, which is invoked inside the outer function to complete some kind of routine or action

try/catch - a series of code blocks to handle exceptions or errors thrown while the code is being run

Source: https://www.w3schools.com/jsref/jsref_map.asp
Source: https://www.w3schools.com/jsref/jsref_filter.asp
Source: https://developer.mozilla.org/en-US/docs/Glossary/Callback_function
Source: https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Statements/try...catch

Key Terms

Problem Solving Methodology

Create a **problem statement**

Use computational thinking as the process that **produces an algorithm/pseudocode** (plain language description of the steps) that generates the desired condition or result

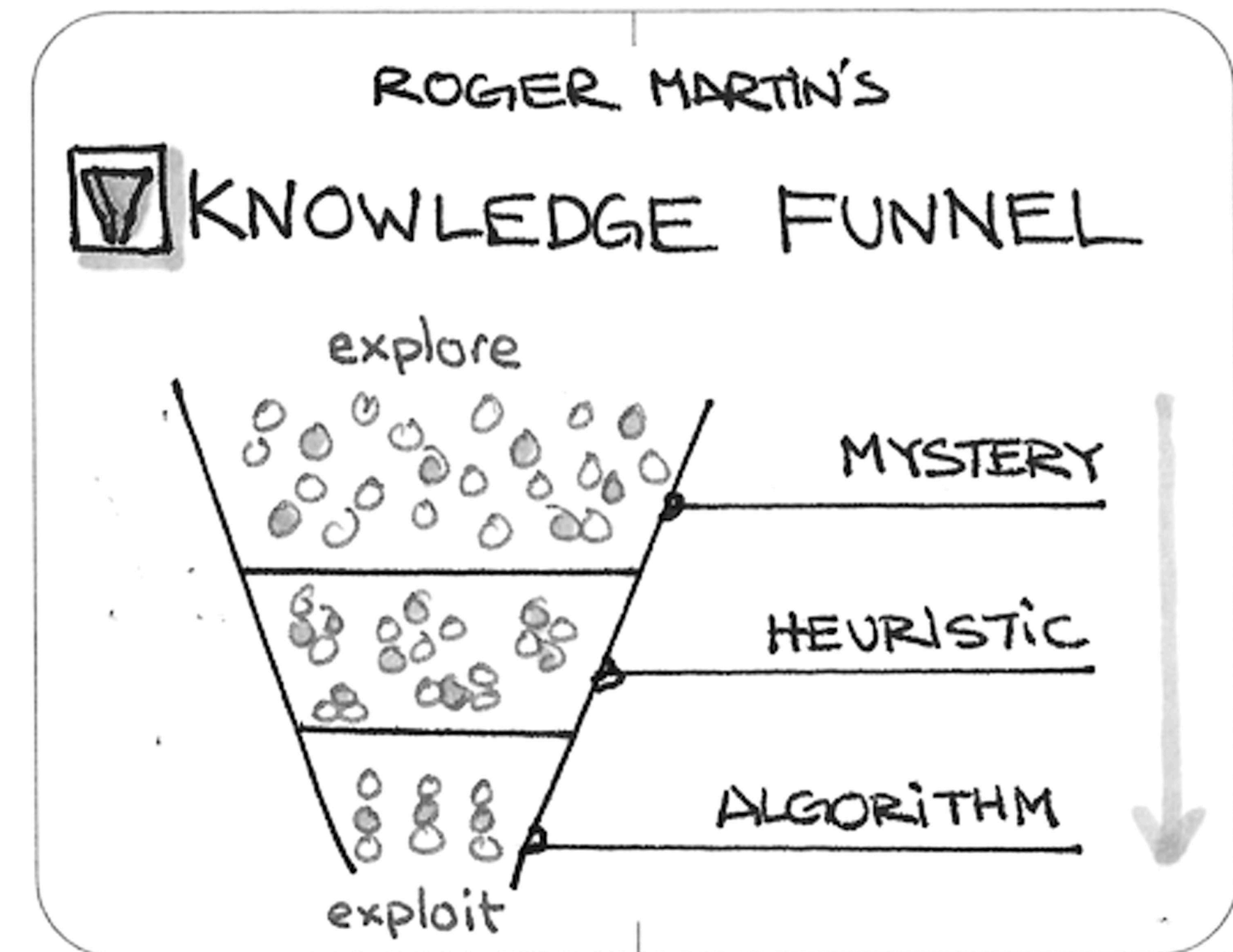Convert algorithms/pseudocode, or **encode**, into JavaScript

In-class exercise: https://replit.com/@johnmcswain/MGT3745Fall2023Sept7#script.js

Source: https://en.wikipedia.org/wiki/Pseudocode
Source: https://rogerlmartin.com/lets-read/the-design-of-business

sketchplanations.com   145

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KNOWLEDGE FUNNEL

explore
                                                    MYSTERY

                                                    HEURISTIC

                                                    ALGORITHM
exploit

Assignments

Homework 2

https://gatech.instructure.com/courses/347044/assignments/1504834

Homework 3

https://gatech.instructure.com/courses/347044/assignments/1512980

Week 3 Discussion

https://gatech.instructure.com/courses/347044/discussion_topics/1554913

Assignments

Installations (Optional)

Download and install [Obsidian](#)

Download and install [Typora](#)

Readings

[The art of business communication (Chapt 3, 5)](#)

[The art of business communication (Chapt 7-8)](#)

[Mermaid Live Editor](#)

[W3Schools HTML](#) (new)

[Docs for Developers](#)

[GitHub: About READMEs](#)

[Markdown Basic Syntax](#)

Questions?