FOR INSTRUCTOR PURPOSES ONLY

MATERIALS

+ Lab
+ Lesson
+ Lesson Starter Code

GENERAL ASSEMBLY

SWIFT STRINGS

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INDEPENDENT PRACTICE: PLAYGROUNDS

10 mins

DIRECTIONS

Write a function that takes a number stored as a String and converts it to an Int.

“4592” -> 4592

NOTES

Don’t use the built-in type casting.

LESSON

LEARNING OBJECTIVES

+ **Articulate** how Strings are stored
+ **Manipulate** Characters in Strings
+ **Extract** words from a String
+ **Iterate** through characters in a String

INTRODUCTION

STRINGS

QUESTION

WHY DO WE CALL THEM STRINGS?

ACTIVITY: STOP-AND-JOT

2 mins

DIRECTIONS

Why do we call them Strings?

DELIVERABLE

Write your thoughts down

DEFINITION

“A STRING IS A **SERIES** OF CHARACTERS.”

- SWIFT REFERENCE

QUESTION

WHO CARES?

COMMON OPERATION IN APPS

SO WHAT

ESSENTIAL FOR APPS THAT SPEAK MULTIPLE LANGUAGES

SO WHAT

CHECK PHONES, EMAILS, SENTENCES

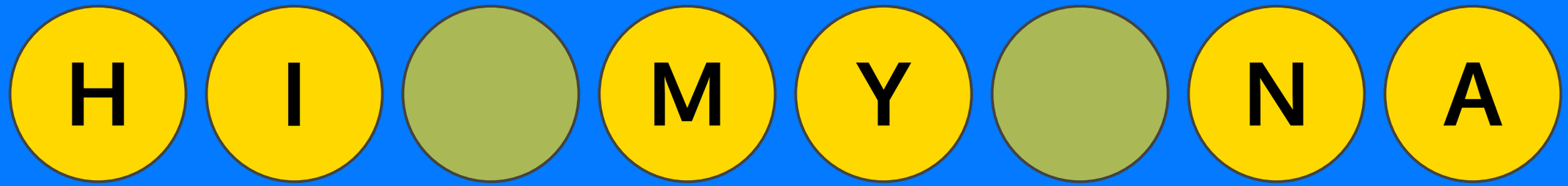
COMMON OPERATION IN APPS

STRINGS

"H I M Y N A M E I S"

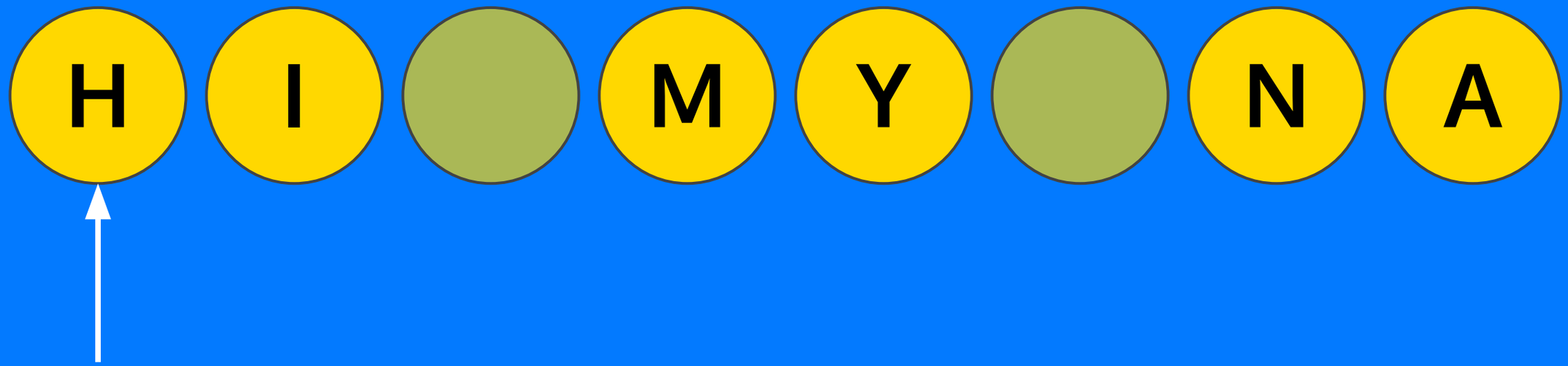
STRINGS

"HI MY NAME IS"



STRINGS

"H I M Y N A M E I S"



STRINGS

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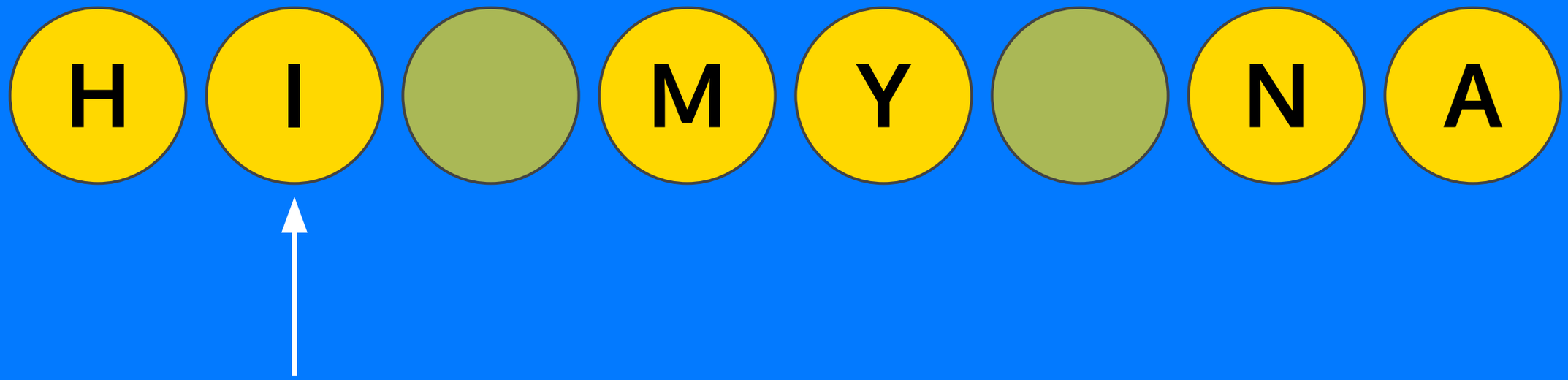

STRINGS

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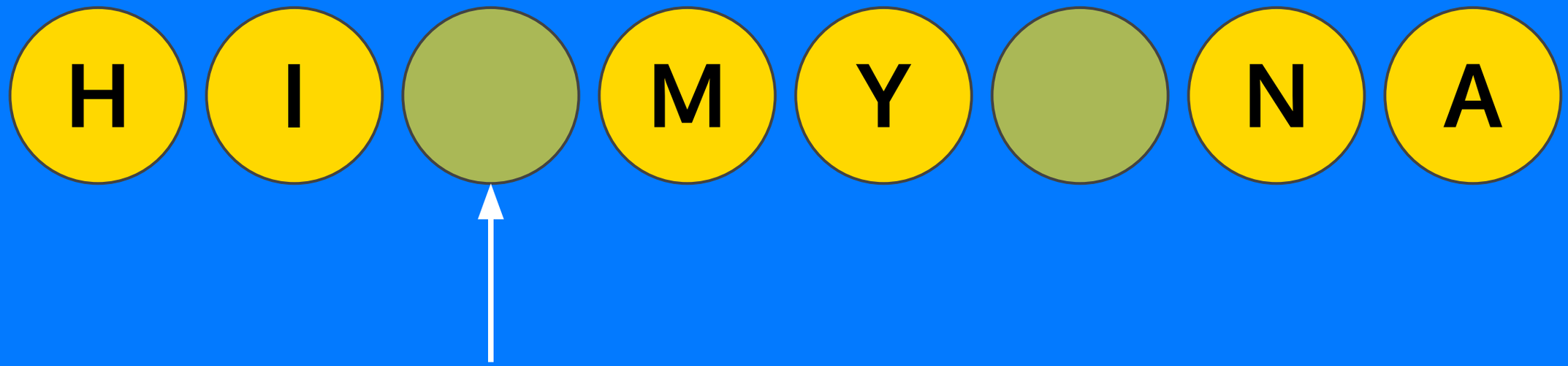
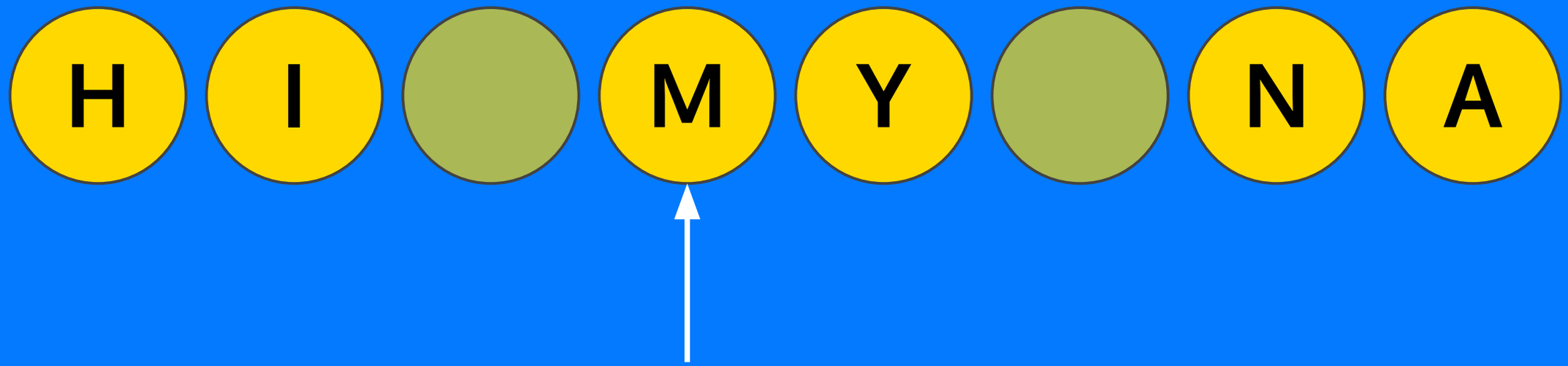


STRINGS

"HI MY NAME IS"



STRINGS

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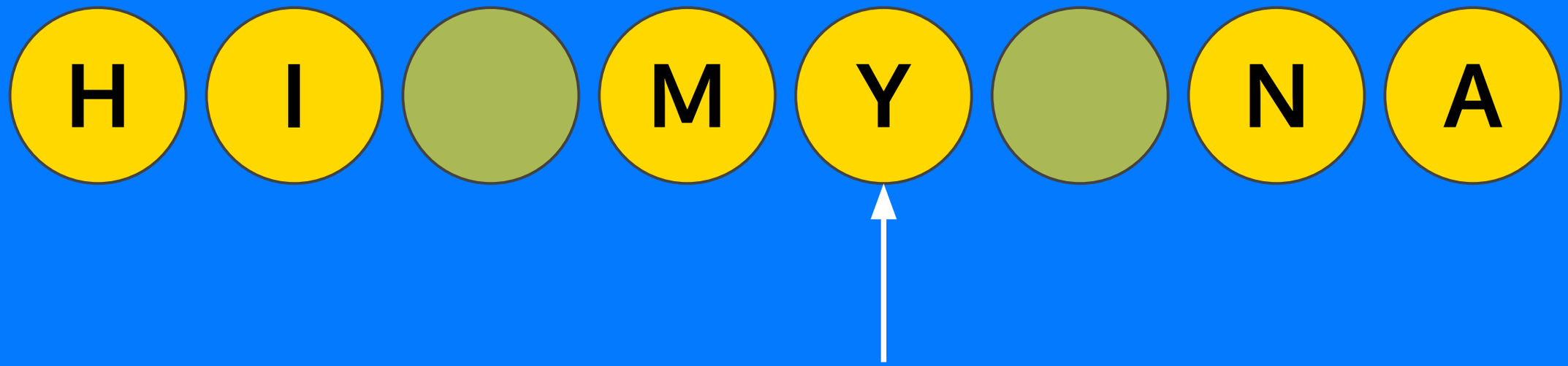

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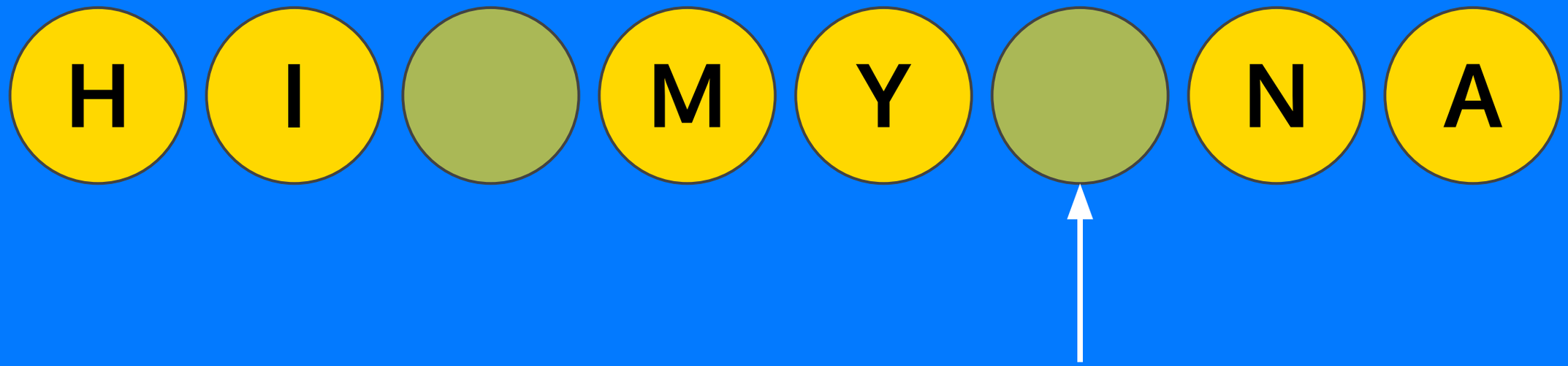

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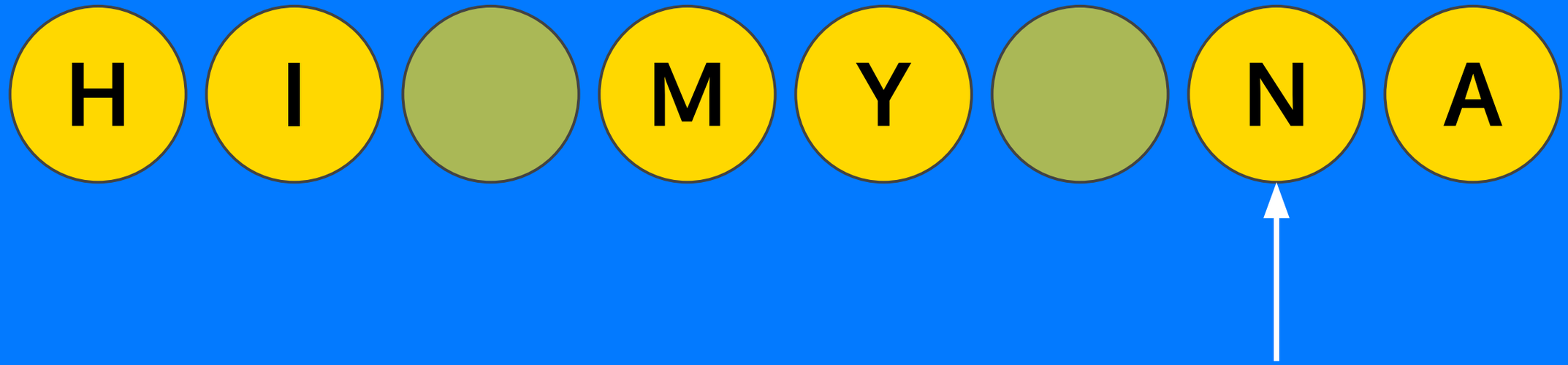

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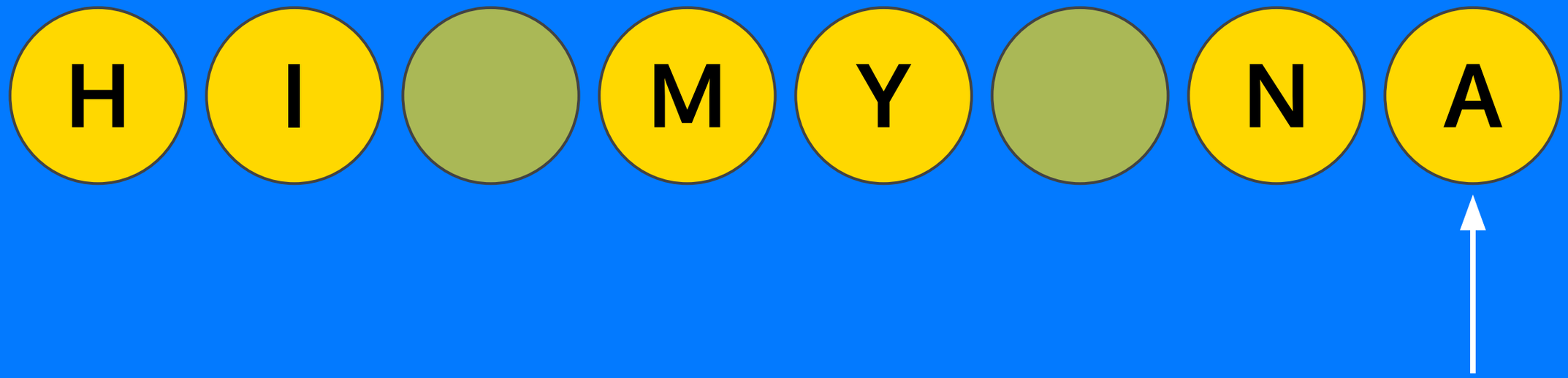

ACTIVITY: STOP-AND-JOT

2 mins

DIRECTIONS

Decompose this String on your desk:

"Get. Shit. Done."

DELIVERABLE

Your drawing

DEMO

+ Iterate through the String using a for loop.
+ Iterate through the String using index

INDEPENDENT PRACTICE: PLAYGROUNDS

10 mins

DIRECTIONS

Write a function that:

1. Takes a String and prints each character in that String on a separate line
2. Takes a String and returns the String with an emoji character appended
3. Takes a String and returns a String with an emoji character prepended to the original
4. Takes a String and returns how many spaces are in it

NOTES

Create each Dictionary with at least 5 values

DEMO

+ Solve the opening problem
+ Splitting Strings

PAIR-PROGRAMMING: PLAYGROUNDS

15 mins

DIRECTIONS

Write a function that:

1. Takes a String representing a sentence and returns a String with the words (not the characters) reversed
2. Takes a sentence and replaces all curse words with “*” character
3. Takes a String representing a number, and returns an Int (opening problem)
4. Write a function that prints all of the possible Unicode characters

NOTES

Refer to the Lesson code for guidance

LESSON

Q & A

CONCLUSION

+ Strings are one of the most commonly used data types
+ Most of what your users communicate to you will be through Strings: passwords, emails, numbers, names, etc.

THANKS!

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