

Contents

- 01 The String Story
- 02 Crew Emails
- → 03 Confirmative
 - 04 Multi-line Strings
 - 05 Capture Groups

Joining the Voyage

Find each shipmate's answer as to whether they are willing to voyage!

Subject Strings

ok, i will do it
okie dokie
Ahooy, Okay!!!
why sure, i can go
arrr, yes matey
My answer me mate, is yes

Accepted Answer Keywords

ok

Okay

sure

yes

y

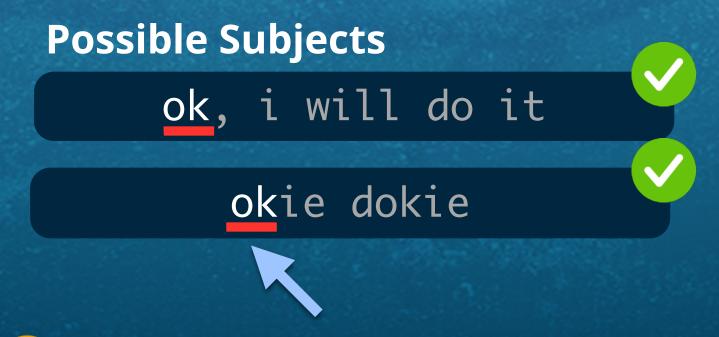
Starting the Expression by Matching the First Confirmation

using ok literal to directly match "ok"



Pattern Goals

- ok
 Okay
 sure
 yes
 y
- answer by itself
- ✓ ignore other text



We want the answer to be by itself and not part of another word

BREAKING THE ICE

Detecting Word Boundaries With the Boundary Metacharacter

Boundary metacharacter



"whole words only"

Match words surrounded by boundary **Regular Expression** $/\b\w+\b/g$ word boundary **Possible Subjects** learn by doing word surrounded by

boundary

Using Boundaries in a Pattern

Regular Expression



Ensures our match is a single word



= boundary metacharacter

Possible Subjects

ok, i will do it

okie dokie

Pattern Goals

✓ okOkay

ortay

sure

yes

У

- answer by itself
- ✓ ignore other text

Great - we don't get a match because "ok" does not have a boundary on the right, it only has letters

Problem: We Need to Match Multiple Versions of a Word

Regular Expression



Possible Subjects

Ahooy, Okay!!!

<u>Pattern Goals</u>

✓ ok

0kay

sure

yes

У

- answer by itself
- ✓ ignore other text

! wait - we want "okay" to match too

Inefficient Matching With Multiple OR Statements

Regular Expression

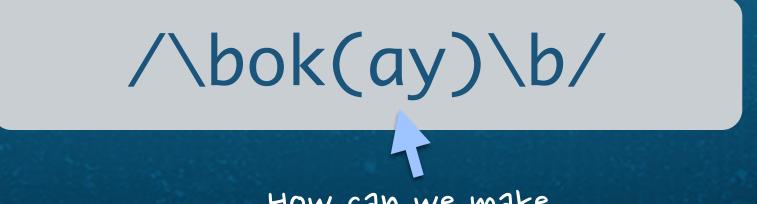


But what if there were to different options?

Pattern Goals

- ✓ ok Okay sure yes
- answer by itself
- ignore other text

If we had a way to make "ay" optional, we could match with a single pattern.



How can we make this optional?

Checking for a Pattern 0 or More Times

Regular Expression

/ship/

All of these characters are required

Match the letters "ship" 1 time ship

ship

shirt

/ship?/

characters in a pattern that are followed by a question mark are optional Match the letters "shi" 1 time followed by 0 or 1 "p" characters ship

Marking a Group of Characters as Optional

Regular Expression

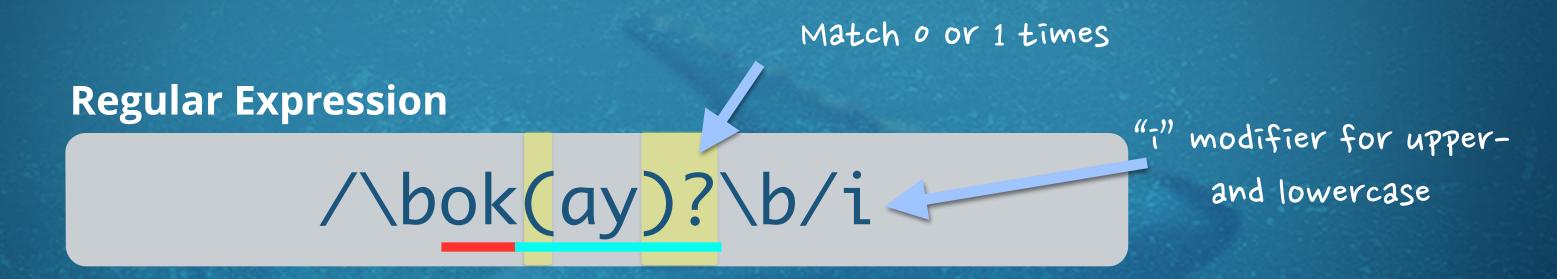
/pirate\s(ship)?/

Group characters in parentheses followed by "?" to make them all optional

pirate ship

pirate boat

Matching Different Versions of the Same Word



Pattern Goals

- ✓ ok
- Okay
 sure
 yes
 y
- answer by itself
- ✓ ignore other text

Possible Subjects

```
Ahooy, Okay!!!

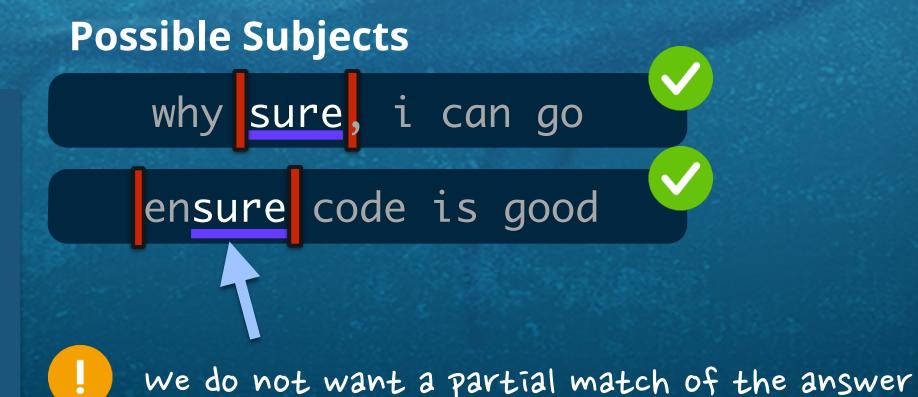
ok, i will do it
```

Problem: The OR Operator Is Splitting the Boundary

Regular Expression

Pattern Goals

- ✓ ok
- Okay
- sure yes
 - У
- answer by itself
- ✓ ignore other text



Solution: Group the Pattern Within the Boundary

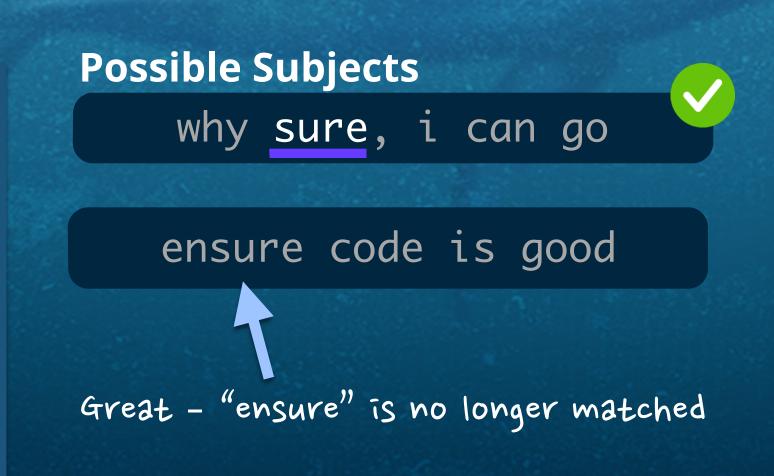
Group ensures boundary is applied to all answers

Regular Expression

/\b(ok(ay)?|sure)\b/i

Pattern Goals

- ✓ ok
- Okay
- ✓ sure
 yes
 ∨
- answer by itself
- ✓ ignore other text



Continuing to Match More Valid Subjects

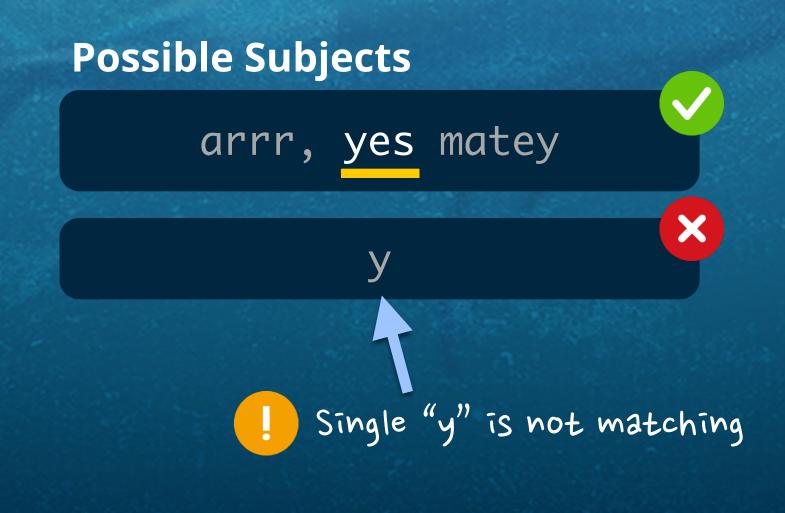
Regular Expression

<u>Pattern Goals</u>

- ✓ ok
- Okay
- sure
- yes

y

- answer by itself
- ✓ ignore other text

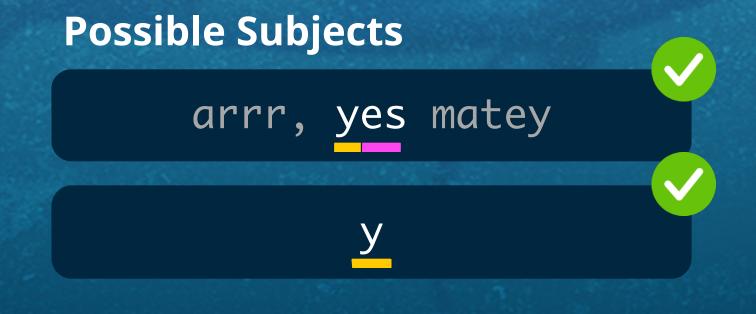


Another Optional Part of the Answer

Regular Expression

Pattern Goals

- ✓ ok
- Okay
- sure
- yes
- ✓ y
- answer by itself
- ignore other text



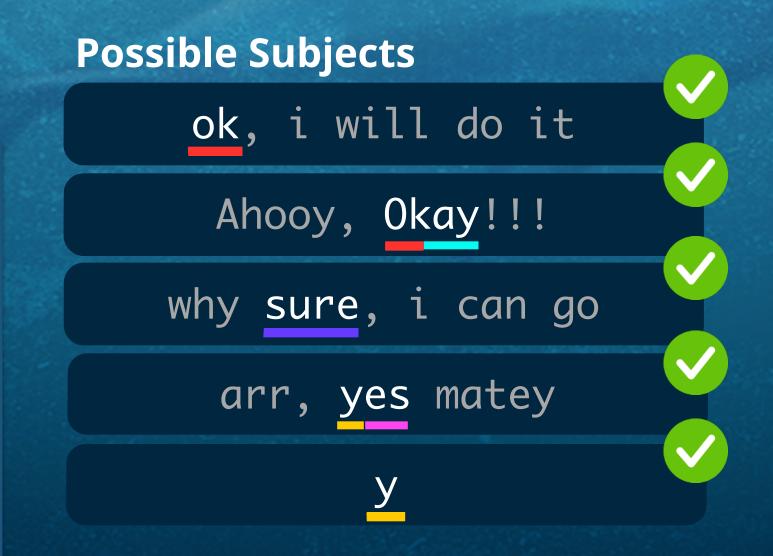
Our Finished Pattern

Regular Expression

/\b(ok(ay)?|sure|y(es)?)\b/i

Pattern Goals

- ✓ ok
- Okay
- sure
- yes
- ✓ y
- answer by itself
- ✓ ignore other text



Section 2 Confirmative

Sailor Taglines

All sailors have entered their taglines!



Pattern Goals

does not contain numbers

40 characters or less

20 characters or more

Work like a captain, play like a pirate.

Keep calm and say Arr.

Shiver me timbers matey.

Why are pirates pirates? cuz they arr.

Start With a Base Pattern for Matching the Tagline

Regular Expression

Subject

Work like a captain, play like a pirate.

Not matching whitespace

Pattern Goals

does not contain numbers
40 characters or less
20 characters or more

Expanding the Pattern to Include Whitespace

Regular Expression

Subject

Work like a captain, play like a pirate.

Pattern Goals

does not contain numbers 40 characters or less 20 characters or more ! we als

we also need to match the comma

Including A Comma

Regular Expression

Subject

Work like a captain, play like a pirate.

Pattern Goals

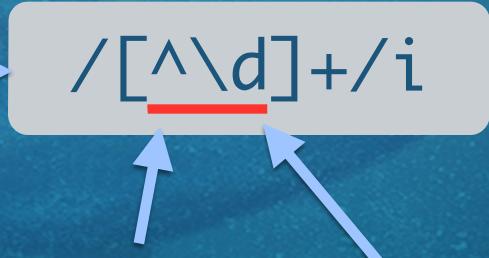
does not contain numbers
40 characters or less
20 characters or more

Writing a Shorter Pattern With the NOT Operator

Everything matched with this pattern...

$$/[a-z\s,]+/i$$

...is also matched by this one.



The "" means "not" when placed within a character set

This means "any number"

Subject

Work like a captain, play like a pirate.

so, this pattern means "anything that's not a number"

1 Caret Symbol — 2 Different Meanings

"used to anchor beginning of subject

Regular Expression

used to negate proceeding pattern

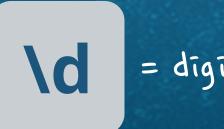


Subject

Work like a captain, play like a pirate.

Pattern Goals

does not contain numbers40 characters or less20 characters or more

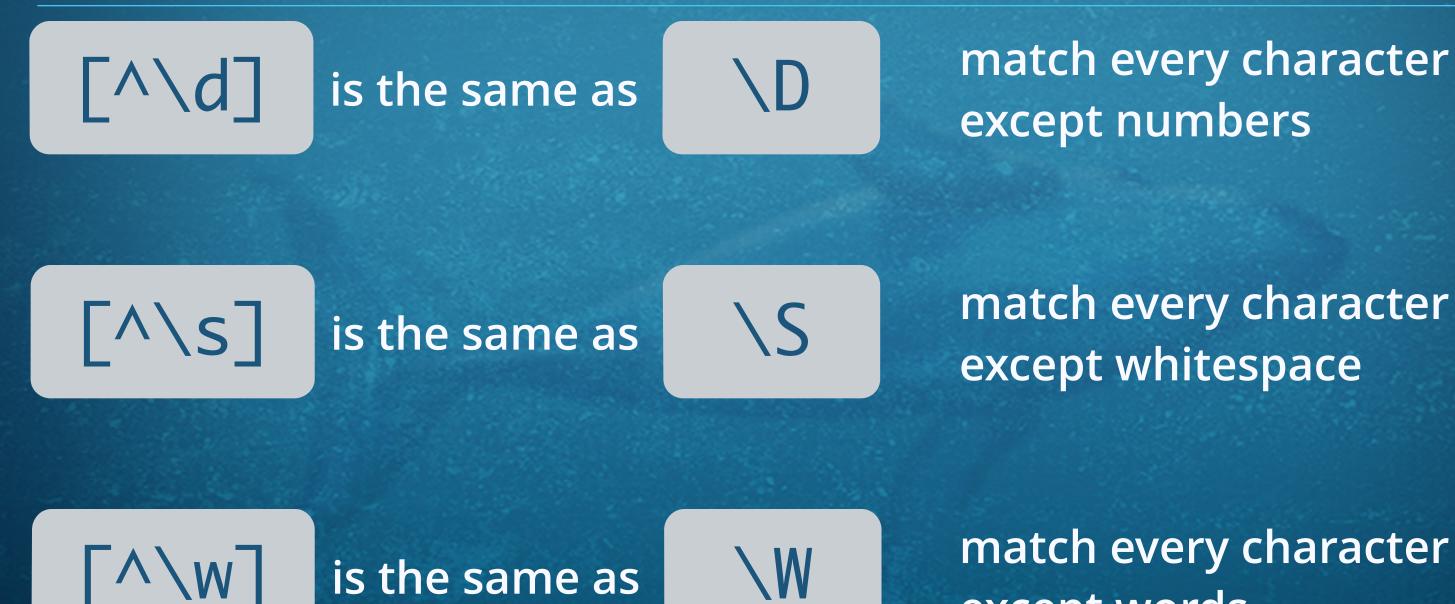


= digit character (number)



= not the following character(s)

Even Shorter With Negated Shorthand Characters



NOTE: You don't need a character set when using negated shorthand characters

except words

Using the Negated Shorthand Syntax in a Pattern

Regular Expression



Subject

Work like a captain, play like a pirate.

Pattern Goals

does not contain numbers
40 characters or less
20 characters or more

Problem: We Want to Set Min and Max Characters

! we want a minimum of 20 characters...

Subject
Work like a

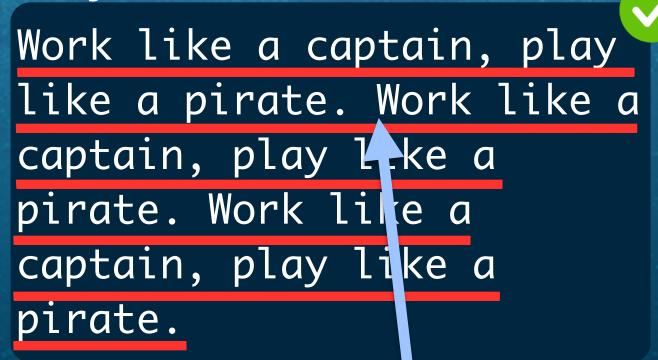
Pattern Goals

does not contain numbers40 characters or less20 characters or more

Regular Expression

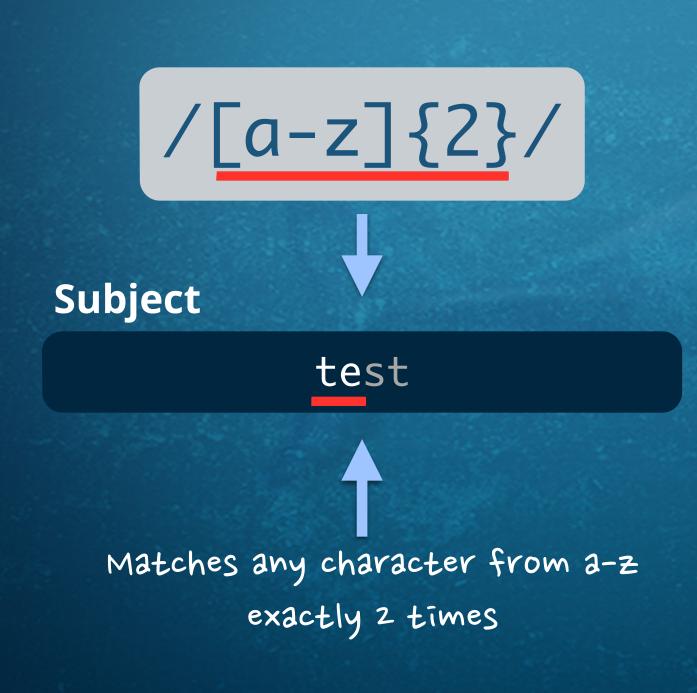


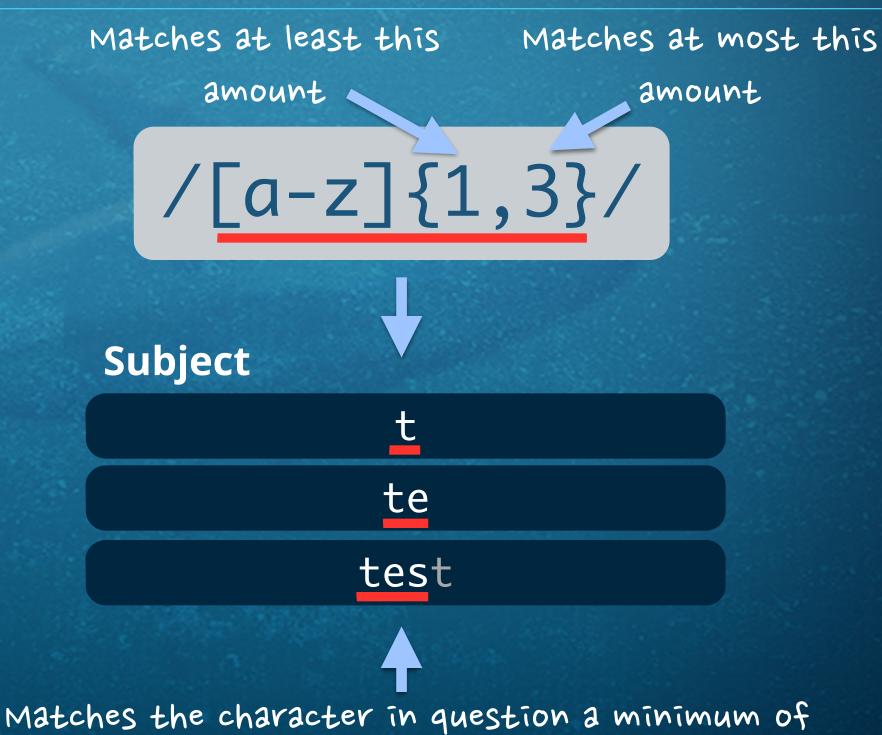
Subject



...and a maximum of 40 characters

Matching a Specific Number of Times With Interval Expressions





1 time and a maximum of 3 times

First, Set the Minimum Amount of Characters

Ensure length is greater than or equal to 20 **Regular Expression** /\D{20,}/i Subject with at least 20 characters is matched Subject

Work like a captain, play like a pirate.

Subject

Work like a captain.

- Pattern Goals Great! subject with length less ✓ does not contain numbers 40 characters or less
- 20 characters or more

than 20 characters is not matched.

Next, Set a Maximum Number of Characters

Regular Expression

/^\D{20,40}\$/

Subject between 20 and 40 characters matched

Subject

Work like a captain, play like a pirate.

Work like a captain, play like a pirate. Work like a captain, play captain, play like a

pirate. Work like a

captain, play like a

pirate.

Great! Long Subject no longer matched.

Pattern Goals

- ✓ does not contain numbers
- 40 characters or less
- 20 characters or more