



Regular Expression

Presented by Desmond Chin

ABOUT ME

DESMOND CHIN

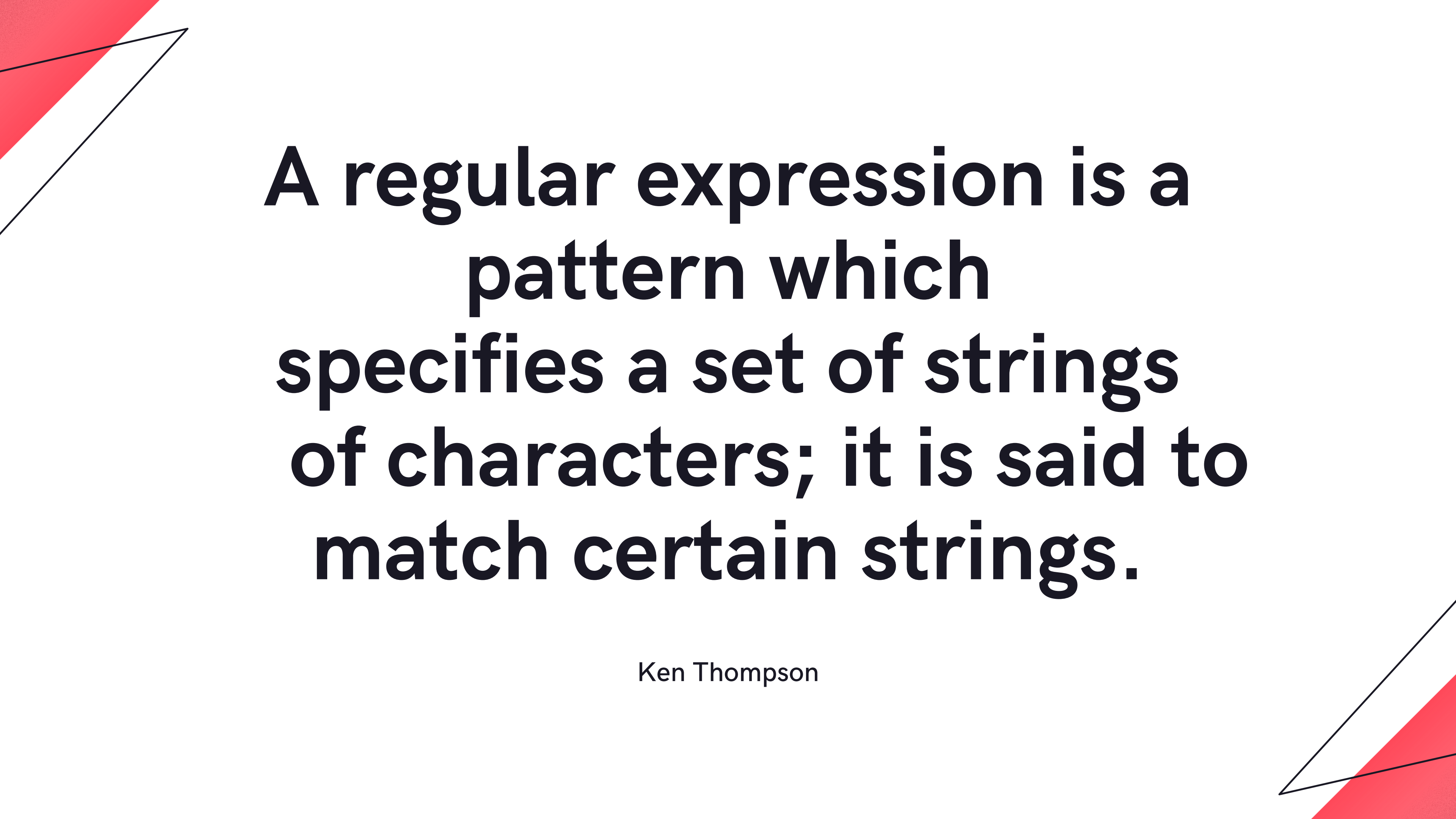
Software Developer, Nuara Group

dsychin  



WHAT IS REGULAR EXPRESSION?



The image features a white background with two red geometric shapes in the corners. In the top-left corner, there is a red triangle with a thin black line extending from its vertex towards the center. In the bottom-right corner, there is a red triangle with a thin black line extending from its vertex towards the center. The main text is centered and reads:

**A regular expression is a
pattern which
specifies a set of strings
of characters; it is said to
match certain strings.**

Ken Thompson

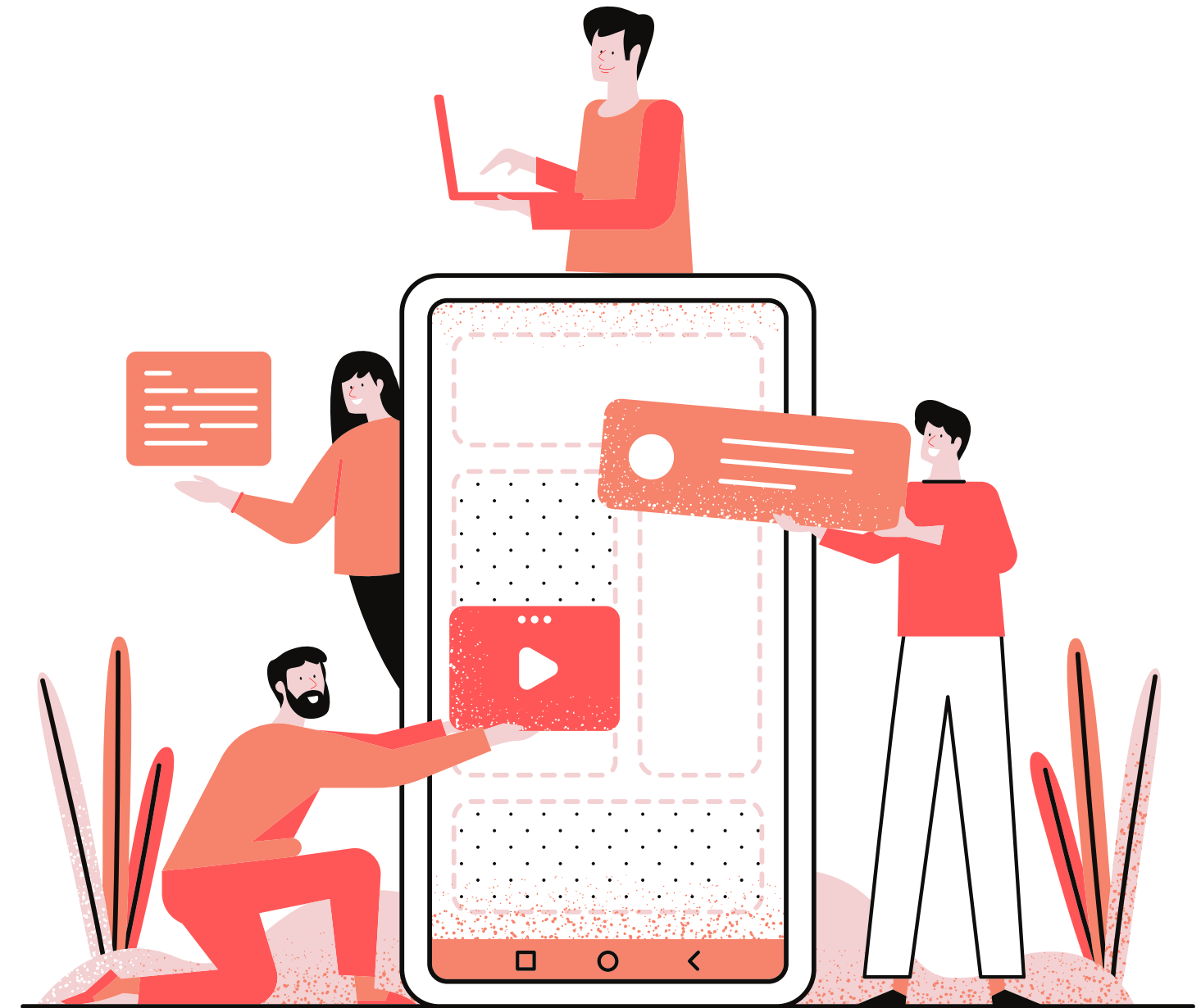
EXAMPLES

Match any integers

`[0-9]+`

Match any letters

`[A-Za-z]+`



General Email Regex (RFC 5322 Official Standard)

```
(?:[a-z0-9!#$%&'*/+=?^_`{|}~-]+(?:\\. [a-z0-9!#$%&'*/+=?^_`{|}~-]+)*|"(?:[\x01-\x08\x0b\x0c\x0e-\x1f\x21\x23-\x5b\x5d-\x7f]|\\[\x01-\x09\x0b\x0c\x0e-\x7f])*")@(?:(?:[a-z0-9](?:[a-z0-9-]*[a-z0-9])?\.\. )+[a-z0-9](?:[a-z0-9-]*[a-z0-9])?|\\[(?:[0-9-]|25[0-5]|2[0-4][0-9]|01?[0-9])[0-9]?\\.\. ){3}(?:[0-9-]|25[0-5]|2[0-4][0-9]|01?[0-9])[0-9]?| [a-z0-9-]*[a-z0-9]:(?:[\x01-\x08\x0b\x0c\x0e-\x1f\x21-\x5a\x53-\x7f]|\\[\x01-\x09\x0b\x0c\x0e-\x7f])+\.))
```

Source: emailregex.com

WHAT CAN YOU DO WITH REGULAR EXPRESSIONS?

- String validation
- Search and replace





DEMO WITH REGEXR.COM

String validation in website





Search
and replace

WHEN NOT TO USE REGEX?



- 1 Parsing HTML/XML
- 2 Parsing CSV file
- 3 Parsing URL path and query parameters

WHERE TO GO FROM HERE?



Learn from interactive tutorials

<https://regexone.com>

<https://www.freecodecamp.org/learn/javascript-algorithms-and-data-structures/regular-expressions/>

Experiment with Regex

<https://regexr.com>

Resources

<https://regex.desmond.app>

