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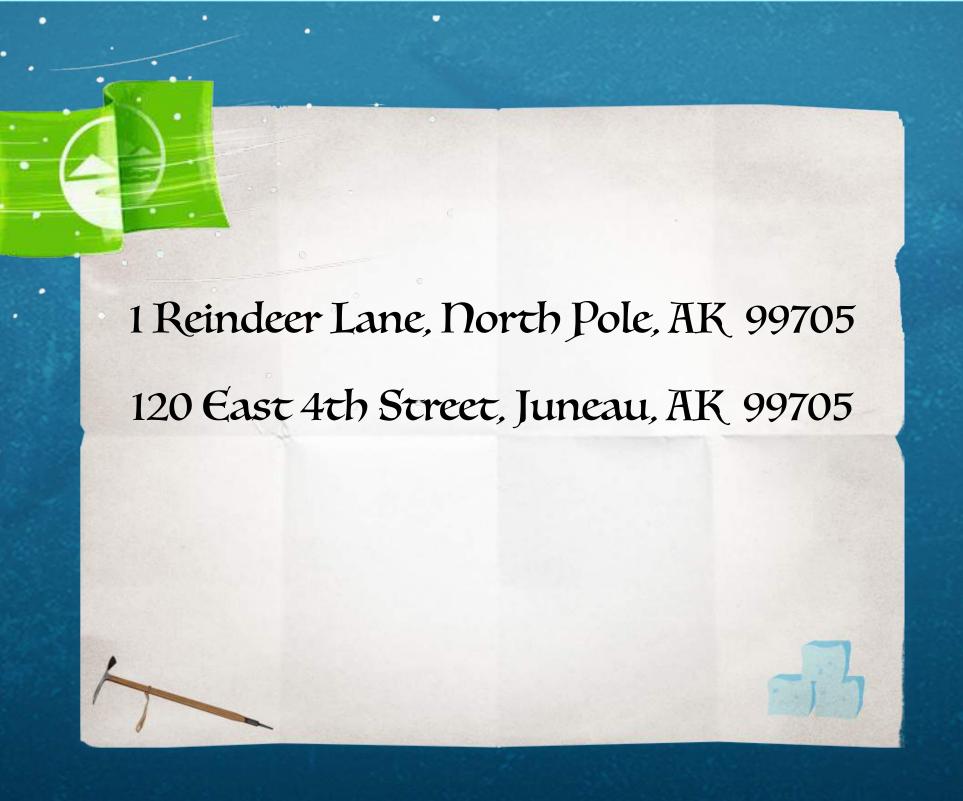
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Every Crew Has a Home



BREAKING THE ICE

Building the Number and Street Name

Regular Expression

 $d+\s[\w\s]+\w{4,6},\s$

Some numbers and 2 words followed by a comma and a space

Possible Subjects

1 Reindeer Lane,



Number and street name fully matched



Building the City Pattern

Regular Expression



city name of any number of characters followed by a comma and a space

Possible Subjects

North Pole,



city is completely matched



Building the State Pattern

Regular Expression

 $w{2}\s$

2-letter state followed by a space

Possible Subjects





State is completely matched



Building the Zip Pattern

Regular Expression

 $\d{5}$

5-digit zip

Possible Subjects



99705



Zip code is completely matched



Our Fully Matching Pattern

Regular Expression

/^\d+\s[\w\s]+\w{4,6},\s[\w\s]+,\s\w{2}\s\d{5}\\$/ig

Anchor to beginning of subject

Anchor to end of subject

Possible Subjects

1 Reindeer Lane, North Pole, AK 99705





Matching Groups

/(learnbydoing)/

Possible Subjects



learnbydoing

Match Groups

1.

learnbydoing

BREAKING THE ICE

Matching Groups

/(learn(bydoing))/

Possible Subjects



learnbydoing

Match Groups



Each group is returned

1.

learnbydoing

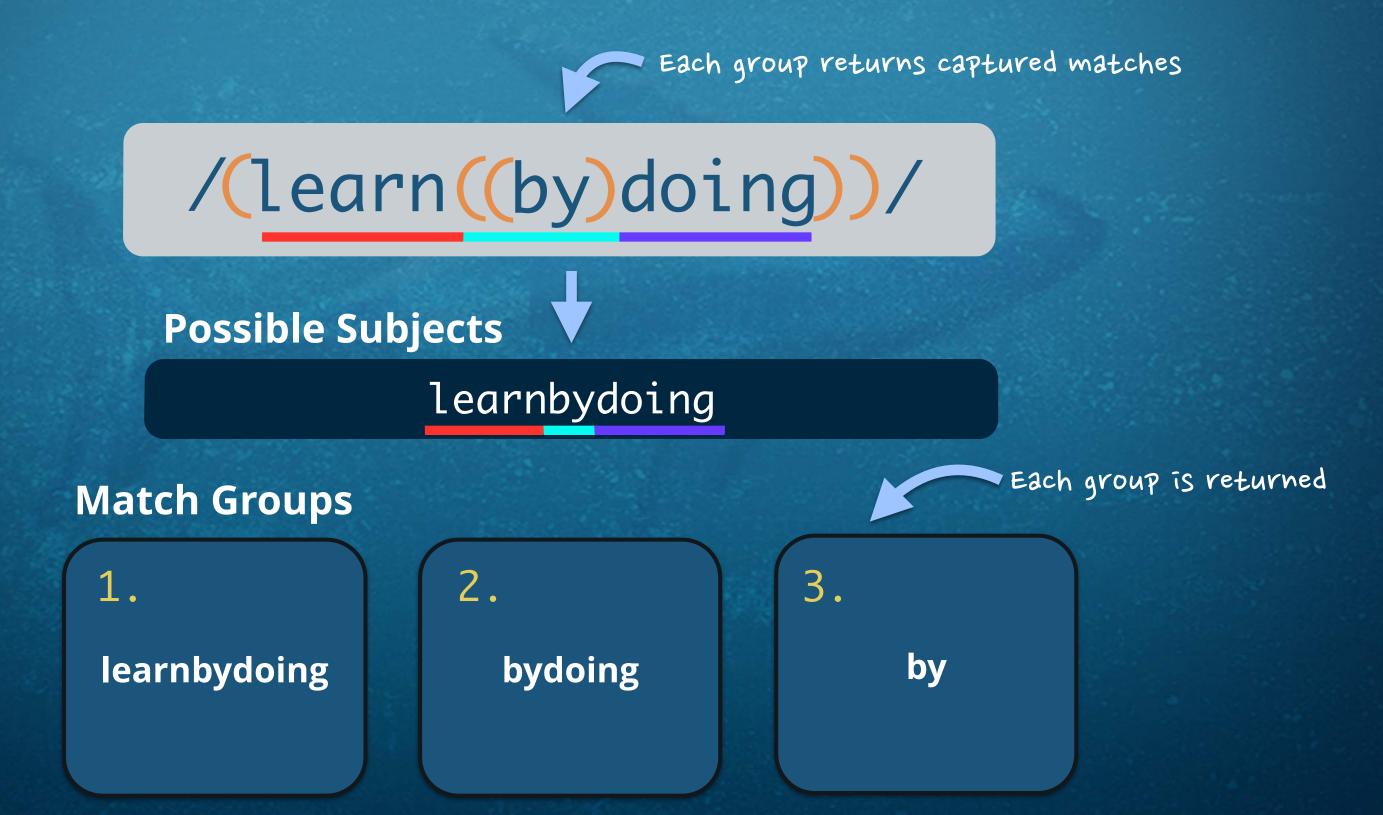
2.

bydoing

BREAKING THE ICE

REGULAR EXPRESSIONS

Matching Groups



Matching Groups — Street

Regular Expression



only return group of first section



Possible Subjects

1 Reindeer Lane, North Pole, AK 99705

Match Groups



1.

1 Reindeer Lane



Matching Groups — City

Regular Expression

First match group for house number and street



Second match group for city

/^(\d+\s[\w\s]+\w{4,6}),\s<mark>(</mark>[\w\s]+<mark>)</mark>,\s\w{2}\s\d{5}\$/i

Possible Subjects

1 Reindeer Lane, North Pole, AK 99705



1.

1 Reindeer Lane

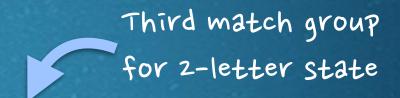
2

North Pole



Matching Groups — State

Regular Expression



/^(\d+\s[\w\s]+\w{4,6}),\s([\w\s]+),\s(\w{2})\s\d{5}\$/i

Possible Subjects

1 Reindeer Lane, North Pole, AK 99705



Match Groups

1.

1 Reindeer Lane

2

North Pole

3.

AK

BREAKING THE ICE

REGULAR EXPRESSIONS

Matching Groups — Zip

Regular Expression

Final match group for zip code





1 Reindeer Lane, North Pole, AK 99705



1.

1 Reindeer Lane

2.

North Pole

3.

AK

4.

99705

Problem: Need to Restrict Potential Streets

Regular Expression



/^(\d+\s[\w\s]+\w{4,6}),\s([\w\s]+),\s(\w{2})\s(\d{5})\$/i

Possible Subjects



1 Reindeer Lane, North Pole, AK 99705

15 Discovery Road, Juneau, AK 99705





Solution: Restricting the Street

Regular Expression



Now we're only looking for "street" or "lane"

/^(\d+\s[\w\s]+<mark>(street|lane)</mark>),\s([\w\s]+),\s(\w{2})\s(\d{5})\$/i

Possible Subjects



1 Reindeer Lane, North Pole, AK 99705

15 Discovery Road, Juneau, AK 99705



Now we do not match on "road"

Problem: Group Returns Unwanted Result

Regular Expression

Group used for evaluation purposes returns unwanted value

/^(\d+\s[\w\s]+<mark>(street|lane)</mark>),\s([\w\s]+),\s(\w{2})\s(\d{5})\$/i

Possible Subjects

1 Reindeer Lane, North Pole, AK 99705

Match Groups

1.

1 Reindeer Lane

2

Lane

North Pole

4

ΔK

5.

99705

we don't want to capture just the type of street!

Making the Street Type a Non-capturing Group

Regular Expression



 $/^(\d+\s[\w\s]+(?:street|lane)),\s([\w\s]+),\s(\w\{2\})\s(\d\{5\})$/i$

Possible Subjects

1 Reindeer Lane, North Pole, AK 99705

Match Groups

1 Reindeer Lane

North Pole

AK

Now we have the correct number of groups

99705