# RegEx

Regular expressions is a powerful search/replace syntax which allows us to make **regular** changes to documents with the aid of very irregular looking **expressions**.

## Learning Outcomes

By the end of these sessions, you will

* define filters in FLEx
* define filters in the Paratext wordlist to find words
* use RegEx Pal to correct errors
* search in an Android app
* play the RegEx reptiles game on your Android

## Learning Incomes

At the start of these sessions,

* reflect on what you already know.

## Learning Task 0 – learning regular expressions

If you have never seen Regular Expressions before, go to

<https://regexone.com/>

Work through as many of the 14 lessons as possible.

## Learning Task 1 Filter the lexicon in FLEx

* + - 1. Restore the Simple project
      2. Display the lexicon
      3. On the Lexeme field, filter for
      4. Try the following regexs:

[aeiou]$

([aeiou])[bcdfghj-np-tv-z]\1

What do they find?

Try other regex

## Learning Task 2 Filter the wordlist in Paratext

* + - 1. In Paratext, open the wordlist
      2. In the filter button type **regex:** (to turn on a regex search)
      3. Try the following regular expressions:
* regex:[aeiou]{2,}
* regex:[^aeiou]{2,}
* regex:[bcdfghj-np-tv-z]{2,}

## Learning Task 3 Search in App builder

* + - 1. Open and app
      2. Tap the search icon
      3. Type in a regex
      4. Turn off match whole words
      5. Tap search

## Learning Task 5 Play the Android RegEx reptiles game

* + - 1. From the PlayStore download **RegEx Reptiles**
      2. How many of the 15 levels can you do?

## Summary

Now that you have completed the tasks, confirm that you can

* define filters in FLEx (turn on regular expressions checkbox)
* define RegEx filters in the Paratext wordlist to find words by typing regex: in front of a regular expression
* use RegEx Pal to correct errors
* search in an Android app
* play the RegEx reptiles game on your Android