

# Data structure Algorithm Advance Lab Project

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# Outline

Introduction

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# Introduction

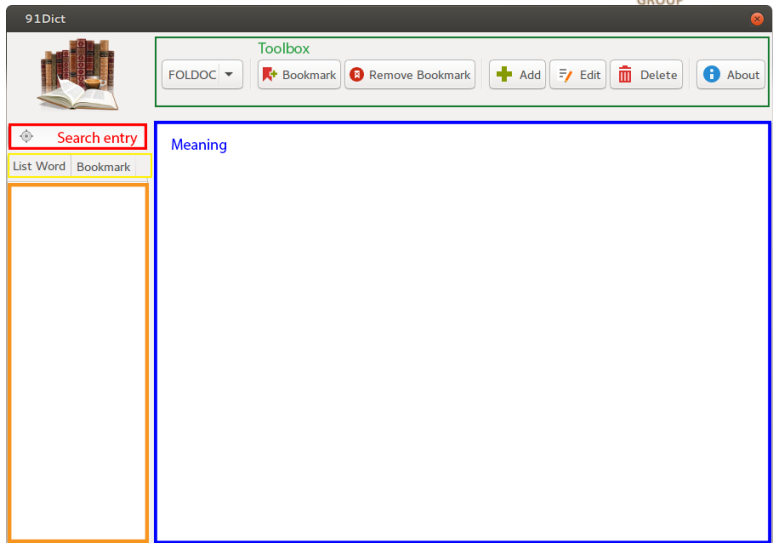
91Dict is a dictionary application developed by

1. C programming language
2. Data Structure Btree
3. Gtk+ 3.0 library for graphical user interface (GUI)

# Overview and Usage

- 3 different dictionaries
  1. FOLDOC
  2. English Vietnamese Dictionary
  3. Vietnamese English Dictionary
- Program feature
  1. Add word
  2. Edit word
  3. Delete word
  4. Bookmark
  5. Suggests word
  6. Search Entry Autocomplete (by History)

# Overview and Usage



# Shortcut

- '*ctrl + n*' : Add new word
- '*ctrl + e*' : Edit current search word or selected word
- '*shift + delete*' : Delete current search word or selected word
- '*ctrl + d*' : bookmark word
- '*ctrl + delete*' : delete bookmark selected word on bookmark

# Data structure design

91Dict use Btree for data structure for storage data

- Dictionary (key: word, value: meaning)
- Soundex (Key: Soundex String, value: list of words has same soundex string separated by semi-colon ;)
- Bookmark (Key: word, value : 1)
- History for search entry autocomplete (Key: word, value : 1)

## Data source and References

- Btree *[http : //www.hydrus.org.uk/doc/bt/html/](http://www.hydrus.org.uk/doc/bt/html/)*
- GTK+ 3.0 *[http : //www.gtk.org/](http://www.gtk.org/)*
- Glade help for design *[https : //glade.gnome.org/](https://glade.gnome.org/)*
- 91Dict Source Code *[https : //github.com/91ICT/91Dict](https://github.com/91ICT/91Dict)*



# The End