



FOSTER

ALGORITHM VISUALISER

PROJECT BY - JIVANSHA GUPTA
PROJECT MENTOR - ANISHKA GUPTA
LANGUAGE - C++

GITHUB REPOSITORY - <https://github.com/Jivansha/Foster-Algorithm-Visualiser>
CURRENT RELEASE – v1.0.1

The background consists of several horizontal stripes in shades of blue, teal, and green. A faint, large circular graphic is visible in the center, composed of two overlapping semi-circles.

**I never teach my pupils, I only provide the
conditions in which they can learn.**

- Albert Einstein

BIG CONCEPT

The project is about creating a platform for practical learning for kids and beginners who wish to learn while playing. It creates adaptive animation visuals for various user cases of different coding algorithms and performs a step by step animation for the respective algorithm.





SILENT FEATURES

- Programming Language – C++
- Development Environment – Qt Creator 4.9.0 beta2(Community) and mingw53 (for GUI development)
- Logo Designing – Adobe Photoshop
- Runs completely Offline (No need to worry about bad Internet connection 😊)
- Currently supports five algorithms
- Online and offline help available

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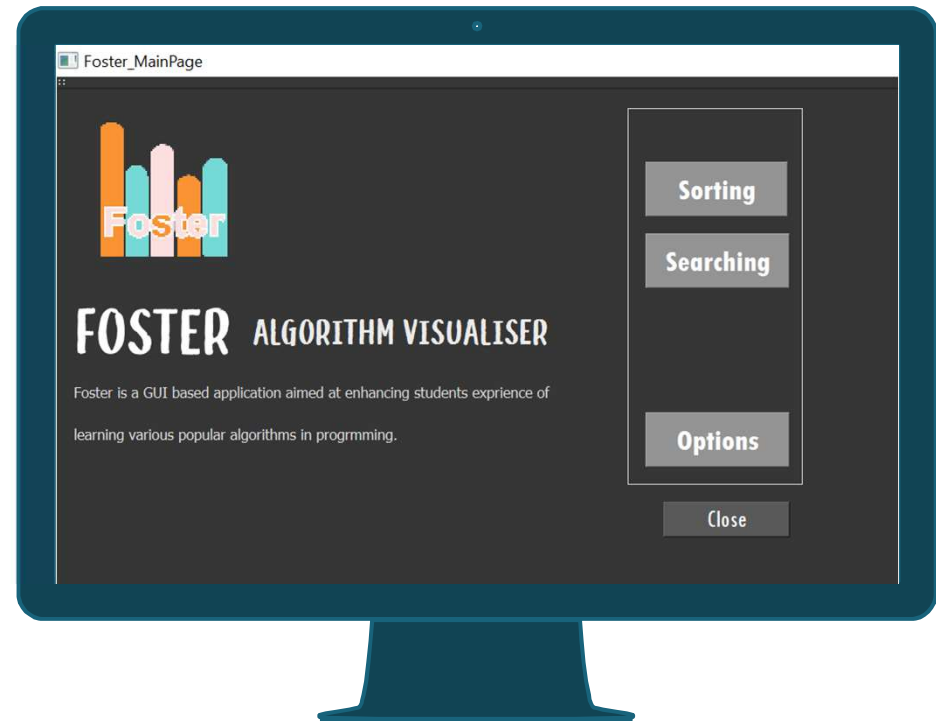
Project Demo

How to use Foster?

Main Page

Consists of the following -

- Tab for navigating to various Sorting Algorithms.
- Tab for navigating to various Searching Algorithms.
- Tab for navigating to Options and product support.
- Close tab to close application.



Sorting Algorithm Page

Consists of the following -

- Select a Sorting Algorithm from available :
 - i. Bubble Sort
 - ii. Selection Sort
 - iii. Insertion Sort
- Select how you want to enter input :
 - i. Provide Custom (User) Input
 - ii. Provide any Random Input
- Then enter your custom input (integers separated by spaces) or random input (size of the array) in respective slots and press Enter.
- Change the speed of animation if required
- Click Play tab to start animation.

Now you are good to go 😊

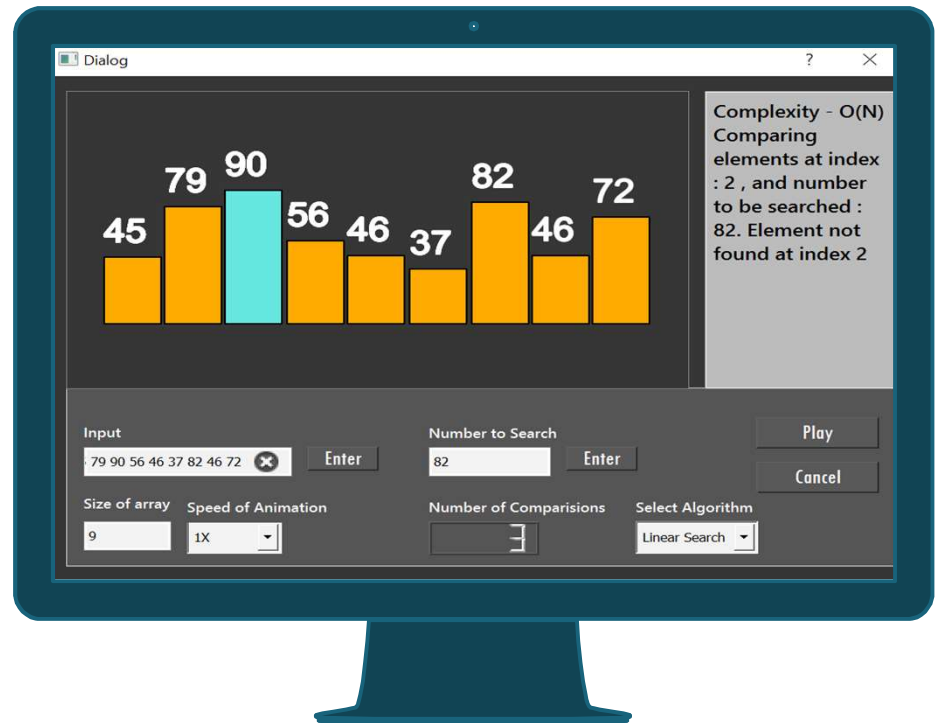


Searching Algorithm Page

Consists of the following -

- Select a Searching Algorithm from available :
 - i. Linear Search
 - ii. Binary Search
- Then enter your custom input (integers separated by spaces) and press Enter.
- Enter the number to be searched.
- Change the speed of animation if required.
- Click Play tab to start animation.

Now you are good to go 😊



Option Page

Consists of the following -

- Tab for navigating to online support for application.
- Tab to get information about application version, built date, etc.
- License tab
- Tab for navigating to application updates.

