Shiny App - Root Finding Methods

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Introduction

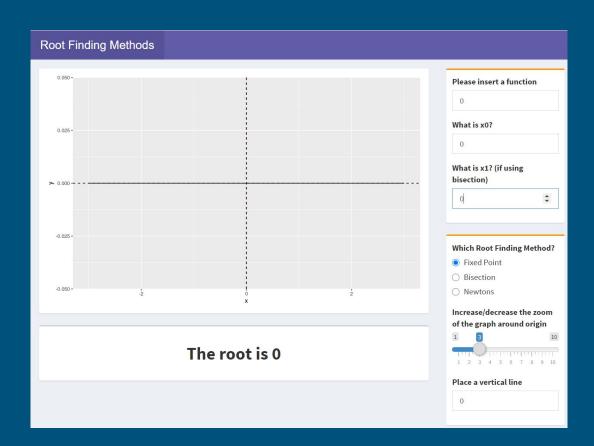
- We created a Shiny App that illustrates different root-finding methods that we were taught throughout the semester.
- The user enters a one-dimensional function for which the root is requested and can also include the initial points.
- The user is then able to see the root of that function.
- Message is displayed if there is an error.

Motivation

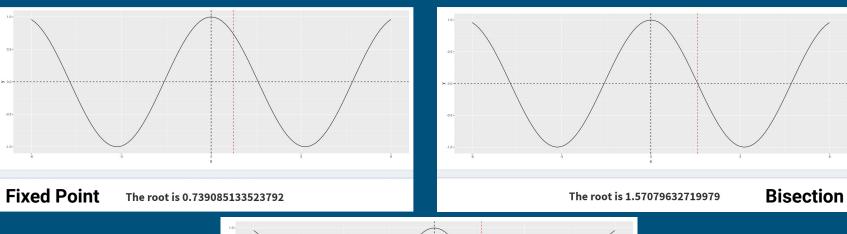
- Learn something new by creating a shiny app
- Perfect our knowledge of root finding methods through the development and testing of this app

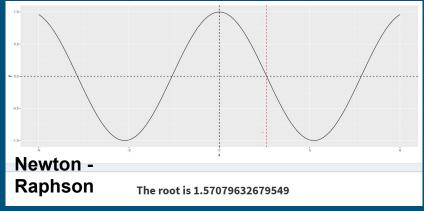
Methods Used:

- Fixed Point
- Bisection
- Newton-Raphson



Root Finding Methods - f(x) = cos(x)





Demo

Thank You!



Link to our GitHub