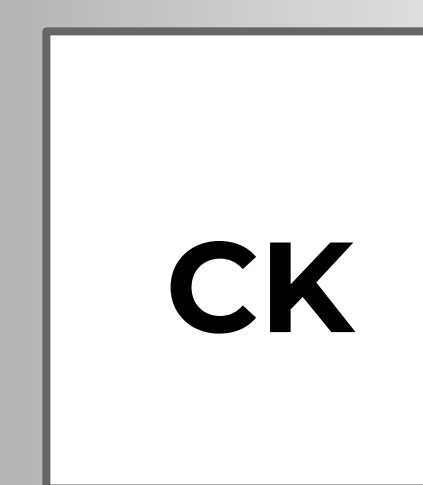# BeautiFRIL

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What is BeautiFRIL?

- BeautiFRIL is an integrated development environment for developing code for a programming language called FRIL (Fuzzy Logic Inference Language).
- FRIL is a logic programming language from the 1980's which is great for fuzzy logic and modelling relationships. FRIL has a lot to offer in terms of learning and growth and we want to bring it back!

Our Goals

We wanted to….

- Create a modern and integrated development environment (IDE) for FRIL with features like syntax highlighting, code formatting, built-in help, and an embedded FRIL command line
- Improve the educational experience for students in artificial intelligence
- Design educational curricula and documentation for the FRIL language

Accomplishments

- Created the first release of the integrated development environment
- Released an IDE with the following features
  - <Syntax highlighting/>
  - Built-in FRIL Help
  - Directory Navigation
  - Initial coding console
- Developed guided lesson plans for students to learn FRIL
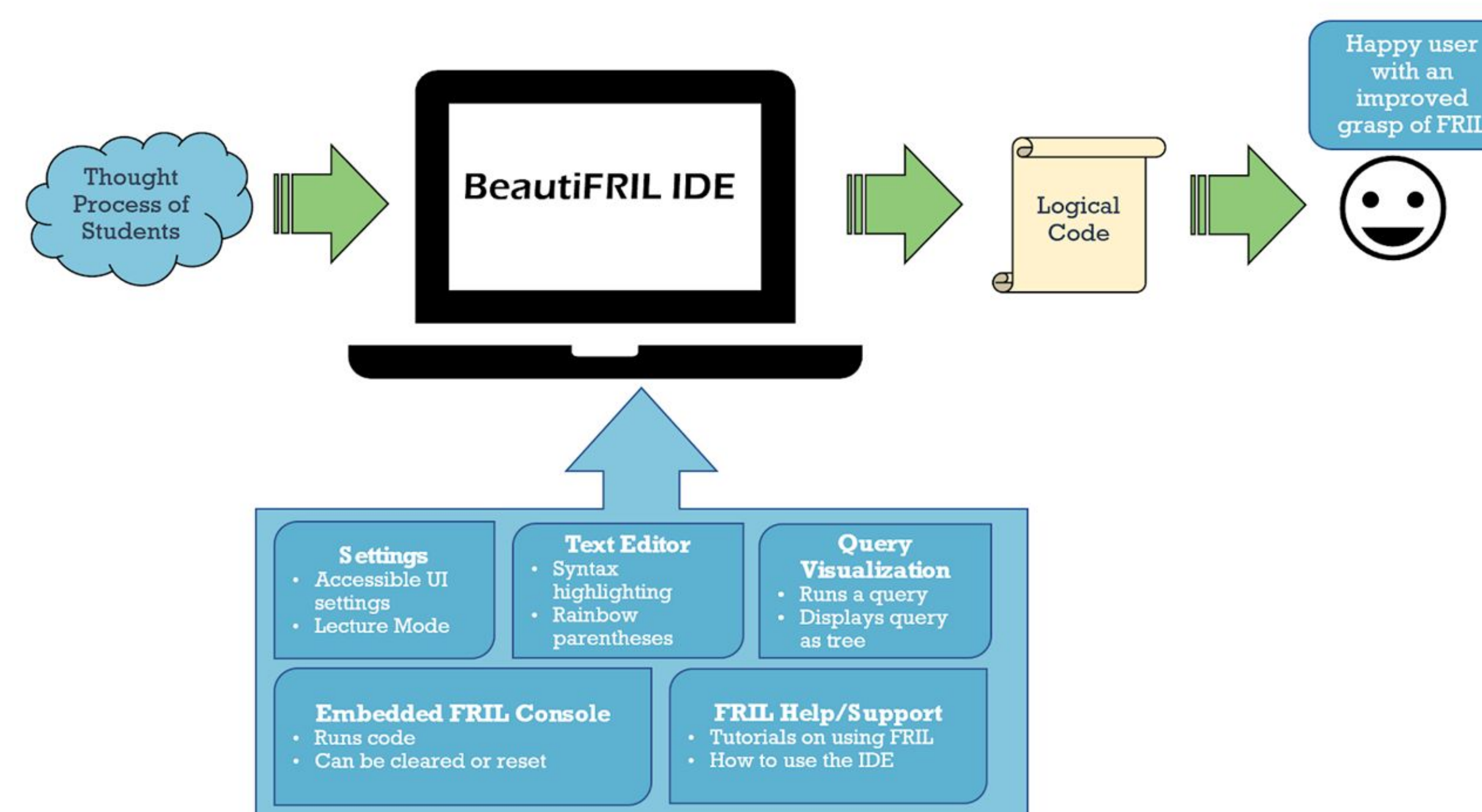
Technologies Used

Broader Impact

Our project paves the way to:
- Revive a language from the 1980's for teach first order and fuzzy logic
- Create a repository of knowledge to learn and use FRIL
- Lay down the foundation for any contributions to our open source IDE
- Improve educational outcomes in the Artificial Intelligence class at UC

Challenges

- Acquiring, understanding, and developing C code from the 1980's and integrating it with modern technology
- Analyzing learning pain points for students and creating features in our IDE to address those areas
- Designing educational materials and documentation for all users to learn and understand FRIL
- Learning new technology like Qt

Download our IDE

Scan Me!

What's Next?

- Releasing new versions of the IDE with additional features including bug fixes for FRIL and visualization tools
- Improving our open source documentation and adding more collaborators so future FRIL students can contribute to the project