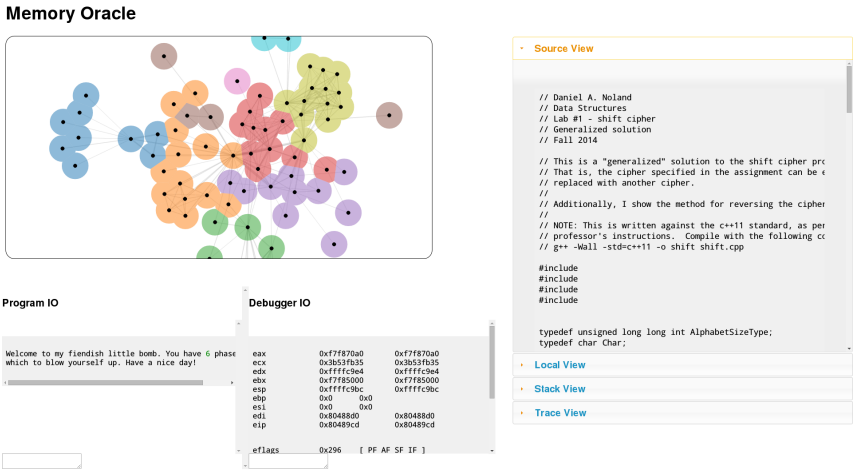
CSCI 3308 Methods & Tools

Project Vision Statement

- **Who**: Daniel Noland, Conner Simmering, Taylor Thomas, Justin Olson, Michael Muehlbradt
- **Title**: Memory Oracle
- **Description**: Web based front end to GDB which will provide intuitive visualization of the debugged program's memory state.
- **Vision statement**: To enhance the usability of GDB and facilitate the instruction of programming, especially data structures. **Live mockup here.**



- **Motivation**: Facilitating faster software development times and improved code quality.
- **Risks**:
- Allowing GDB to efficiently communicate with a web server / client may be difficult.
  - **Mitigation**: relax the project goals to require that the debugged code include helper code for the web debug features.
- The GDB python api is sparsely used and very sparsely documented.
  - **Mitigation**: our entire target software stack is open source. Thus we may examine its exact functionality at any time, even in the absence of quality documentation.
- Most of our team members are unfamiliar with web development.

  - **Mitigation**: we can offload the web server deployment and page design to one of our team members who is familiar with web development should the learning curve prove unrealistic.

- **VCS**: Git
- **VCS Link**: https://github.com/daniel-noland/MemoryOracle