CS 3520: Programming Languages

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aug 23–27</td>
<td>Standard ML</td>
</tr>
<tr>
<td>Aug 30–Sep 3</td>
<td></td>
</tr>
<tr>
<td>Sep 6–10</td>
<td>Labor Day</td>
</tr>
<tr>
<td>Sep 13–17</td>
<td></td>
</tr>
<tr>
<td>Sep 20–24</td>
<td>Types</td>
</tr>
<tr>
<td>Sep 27–Oct 1</td>
<td></td>
</tr>
<tr>
<td>Oct 4–8</td>
<td></td>
</tr>
<tr>
<td>Oct 11–15</td>
<td>Fall break</td>
</tr>
<tr>
<td>Oct 18–22</td>
<td></td>
</tr>
<tr>
<td>Oct 25–29</td>
<td></td>
</tr>
<tr>
<td>Nov 1–5</td>
<td>Rust</td>
</tr>
<tr>
<td>Nov 8–12</td>
<td></td>
</tr>
<tr>
<td>Nov 15–19</td>
<td></td>
</tr>
<tr>
<td>Nov 22–26</td>
<td>Thanksgiving</td>
</tr>
<tr>
<td>Nov 29–Dec 3</td>
<td></td>
</tr>
</tbody>
</table>

Changes to the schedule will be announced in class.

Resources

- Syllabus
- Examples from class
- Setting up `ssh` to connect to `cs3520.cs.dixie.edu` without typing a password:
  - Written instructions
  - Screencast demo (note, the written instructions are slightly simpler—open that page and follow along while you watch the screencast).

Languages

- Standard ML slides
- A half-hour to learn Rust
- Rust via its Core Values
- Language shootout size vs speed

Assignments

See the Canvas listings for assignments and due dates. All homework is submitted using CodeGrinder unless otherwise noted.

Final project languages

In place of a final exam, each student will learn one additional language, write some code in that language, and present it to the rest of the class. Here are a few potential choices:

- Factor
- Smalltalk (Dawson, Lance, Marcos)
- Haskell (Mark, Ryan, Kirk)
- OCaml or F# (Derek, LangHui, Jason)
- Clojure (Duy, Jandir, Reese)
- Common Lisp (Kaden, Slade, Jarett)
- Perl (Dylan, Ian, Gregory)
- Erlang or Elixir (Rebecca, Samantha)
- J
- Tcl (Polina, Robby, Shawn)