Building Apps with SwiftUI
CMSC 436
Navigation

Navigation is easy:

NavigationView {
  NavigationLink(destination: Text("I'm linked!")) {
    Text("This be a link...")
  }
  .navigationTitle("Gettin Around")
}

▶ navigationTitle can be attached to anything in top view
▶ destination can be any view
▶ pass data to subview by through properties of subview struct
Programmatic Navigation

Multiple links must be wrapped inside an aggregation (such as a stack, or a list) inside the NavigationView.

```swift
struct ContentView: View {
    @State private var detail = false

    var body: some View {
        NavigationView {
            VStack {
                NavigationLink(destination: Text("down"), isActive: $detail) {
                    Text("I am up")
                }
                Spacer()
                Button("Go downI am down") {
                    self.detail = true
                }
            } // VStack
            .navigationTitle("up")
        } // NavigationView
    }
}
```
Programmatic Alternatives

```swift
struct ContentView: View {
    @State private var which: String? = nil

    var body: some View {
       NavigationView {
            VStack {
                NavigationLink(destination: Text("I am Alpha"), tag: "alpha", selection: $which) {
                    Text("Link to first subview")
                }.padding()
                NavigationLink(destination: Text("I am Beta"), tag: "beta", selection: $which) {
                    Text("Link to second subview")
                }.padding()
                Button(action: { self.which = "alpha" }) {
                    Text("Go Alpha!").foregroundColor(.orange)
                }.padding()
                Button(action: { self.which = "beta" }) {
                    Text("Go beta!").foregroundColor(.orange)
                }
            }
            .navigationTitle("Navigation")
        }
    }
}
```
Midterm

- **When:** Thursday 10/21, usual class time, usual place
- **Subjects:**
  - everything covered in class
  - everything covered in quizzes
  - everything in projects
  - ...through Thursday 12/14. Whatever I cover the day before the exam won’t be on it.
- **Example test on piazza @337.**
- **Format:**
  - some multiple choice
  - some short answer
  - two or three programming problems on Swift
  - maybe one programming problem on SwiftUI, but the exact syntax is not important. The overall set of routines to call, views to define, is.