

QND Computer Science Day 15

Mr. Schmidt

Today

- Submit your turtle project!
- iOS App Development

iOS Apps

- App Store released in 2008
- I have several apps!
- Use SwiftUI



It's all Views!

```
struct ContentView: View {  
    var body: some View {  
        Text("Hello world!")  
    }  
}
```

- Lots of curly braces and nesting

Managing State

```
struct ContentView: View {  
    @State var count = 0  
    var body: some View {  
        VStack {  
            Text("Count is \(count)")  
            Button("Press") {  
                count += 1  
            }  
        }  
    }  
}
```

Chatroom

- I have set up a chatroom
- Write an app to send messages that you can see on the screen
- Keep it appropriate, I am tracking your IPs
- Grab code from my website for the client

Sending a Message

```
struct ContentView: View {
    var body: some View {
        Button("Send") {
            Task {
                try await sendMessage(username: "YOUR NAME HERE", message: "Hello World!")
            }
        }
    }
}
```

- Task for running background code
- `try await` to handle errors and wait for network

TextField

```
struct ContentView: View{
    @State var text = ""
    var body: some View {
        HStack {
            TextField("Message", text: $text)
            Button("Send") {
                Task {
                    try await sendMessage(username: "YOUR NAME HERE", message: text)
                }
            }
        }
    }
}
```

TextField

- `$` creates a Binding -- lets some other View change a part of your View