

Unit 1 — Lesson 1:

Introduction to Swift and Playgrounds

A little history



A modern language



SAFE

FAST

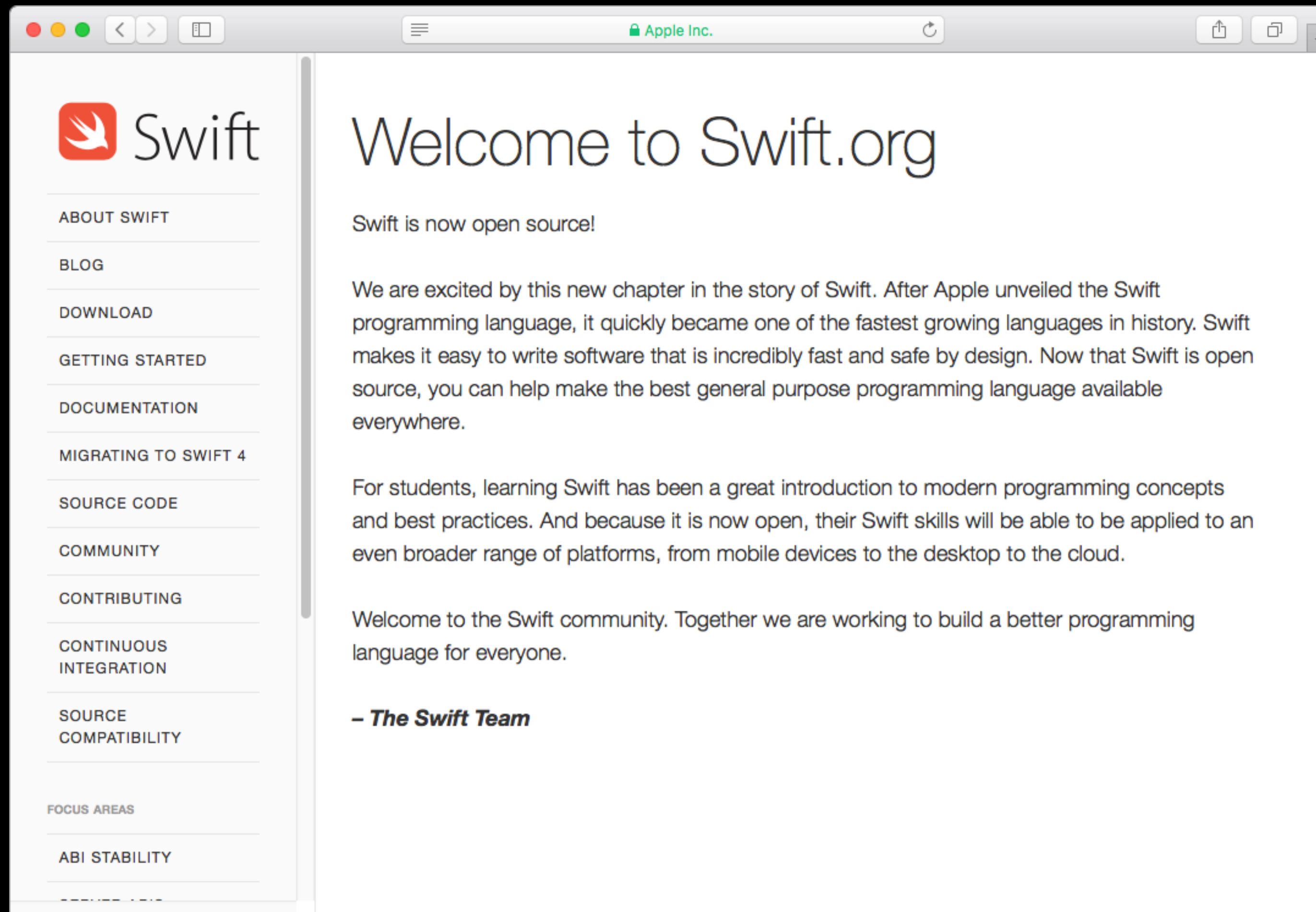
EXPRESSIVE

OPEN SOURCE

A safe language

- Explicit object "types"
- Type inference
- Optionals
- Error handling

Open Source



Hello, world

```
print("Hello, world!")
```



main.swift

Playgrounds



Ready | Today at 8:59 AM

Message Test

```
7   Date()
8   ]
9
10  struct Message {
11      let from: String
12      let contents: String
13      let date: Date
14  }
15
16  let messages = [
17      Message(from: "Sandy", contents: "Hey, what's going on tonight?", date: messageDates[0]),
18      Message(from: "Michelle", contents: "Studying for Friday's exam. You guys aren't?", date: messageDates[1]),
19      Message(from: "Christian", contents: "Nope. That's what tomorrow is for. Let's get food, I'm hungry!",
20              date: messageDates[2]),
21      Message(from: "Michelle", contents: "Maybe. What do you want to eat?", date: messageDates[3])
22  ]
23  extension Message: CustomDebugStringConvertible {
24      public var debugDescription: String {
25          return "[\\(date) From: \\(from)] \\(contents)"
26      }
27  }
28  debugPrint(messages[0])
29
30  let dateFormatter = DateFormatter()
31  dateFormatter.doesRelativeDateFormatting = true
32  dateFormatter.dateStyle = .short
33  dateFormatter.timeStyle = .short
34
35  extension Message: CustomStringConvertible {
36      public var description: String {
37          return "\\(contents)\\n  \\(from) \\(dateFormatter.string(from: date))"
38      }
39  }
40
```

[[from "Sandy", contents "Hey, what's going...

(25 times)

"[2016-12-07 16:19:56 +0000 From: Sandy]...

<NSDateFormatter: 0x610000045880>
<NSDateFormatter: 0x610000045880>
<NSDateFormatter: 0x610000045880>
<NSDateFormatter: 0x610000045880>

(4 times)

hey, what's going on tonight?
Sandy Today, 8:19 AM
Studying for Friday's exam. You guys aren't?
Michelle Today, 8:28 AM
Nope. That's what tomorrow is for. Let's get food, I'm hungry!
Christian Today, 8:44 AM
Maybe. What do you want to eat?
Michelle Today, 8:53 AM

