



SI413: Programming Languages and Implementations

COURSE OVERVIEW: This course examines basic concepts underlying the design of modern programming languages: types, control structures, abstraction mechanisms, inheritance, and constructs for programming. This course will include programming assignments in several languages.

LANGUAGE HISTORY

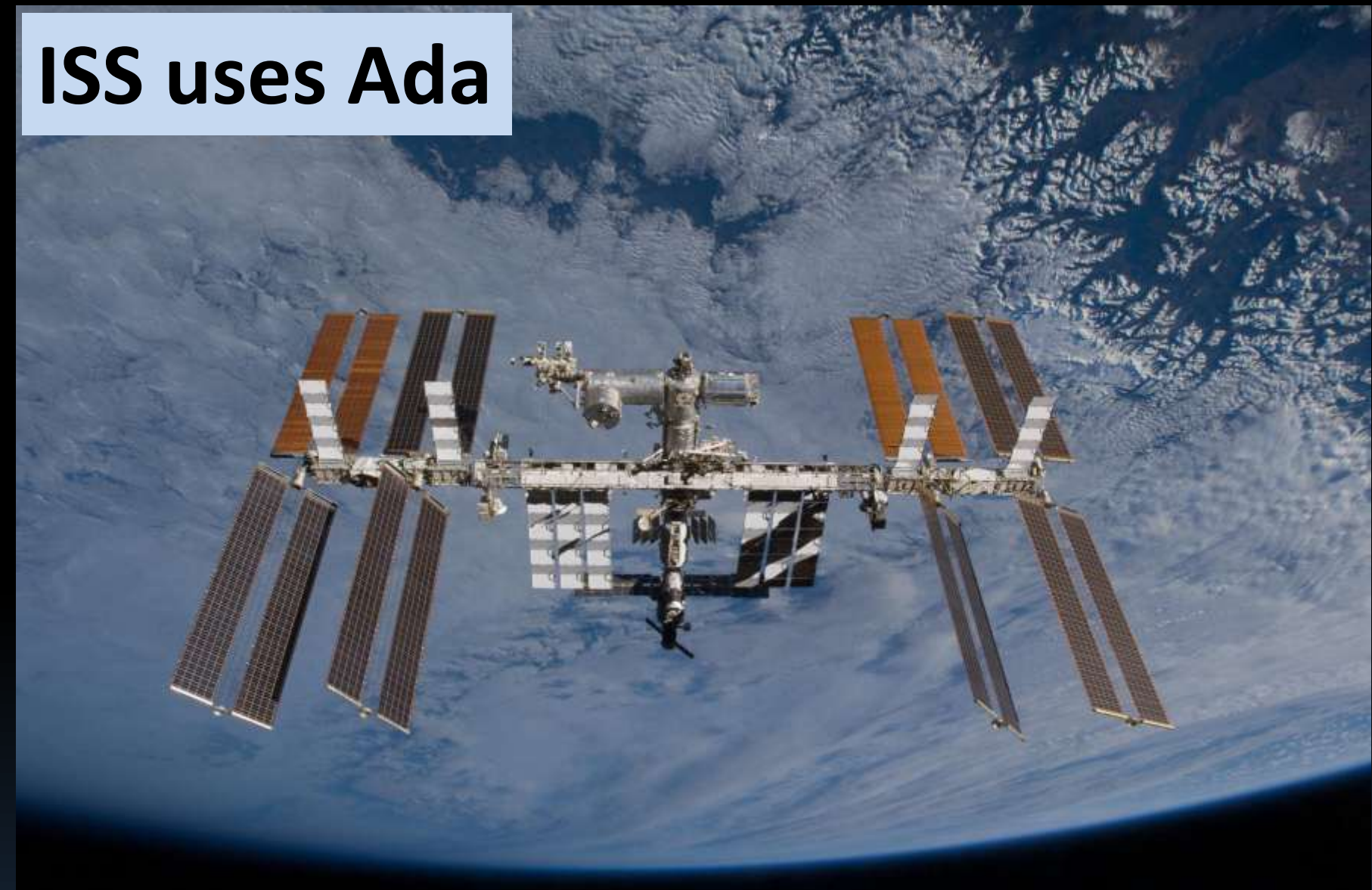
- Developed for the DoD in 1980s by CII Honeywell Bull
- DoD Standard Language 1983-1997
- Versions: Ada83, Ada95, Ada05

Language: ADA

MIDN Kevin Lees, USN
MIDN Alek Ogden, USN

ADA HELLO WORLD

```
with Ada.Text_IO;
use Ada.Text_IO;
procedure Hello is
begin
  Put_Line("Hello, world!");
end Hello;
```



Strengths

- Interoperability with Other Languages
- Concurrency Support
- Real-Time Support
- Safety-Critical Support
- Reusability



Applications

Ada has a set of unique technical features that make it highly effective for use in large, complex and safety-critical projects.