

CS-321

Languages and Compiler Design I

Prof. Harry Porter
Portland State University

There are 2 handouts today:

- Syllabus
- Checklist

Syllabus and Course Organization

Web page:

www.cs.pdx.edu/~harry/compilers/syllabus.html

“Mailman” E-mail List

subscribe cs321-001

E-mail: harry@cs.pdx.edu

Textbook

Attendance - Roll Call

Two-term course: **CS-321, CS-322**

Project: **Build a compiler!**

Homeworks

Exams

Prerequisites

Questions???

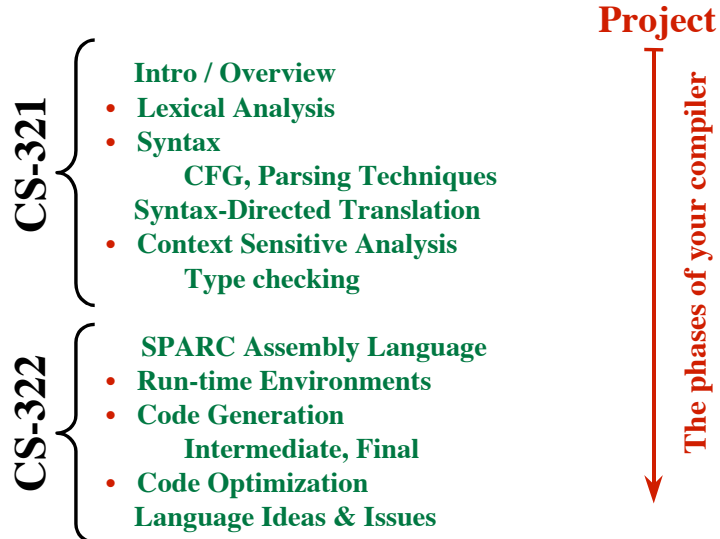
To do list...

- Syllabus
- Checklist
- Print Documents
- Reading Assignments
- Hello-world assignment
- Project 0 (Tree)
- HW #1

Course Goals

- **Study Compilers**
Design, Implementation, Theory
- **Study Programming Languages**
Issues, Ideas, Approaches
- **Improve Programming Skills**
Design & Implement a Complex System

Course Outline:



The Project

- Two terms to complete
- Broken into pieces (~ 2 weeks / assignment)
- Work individually
- We'll use Java
- Grading

Test Data: Must work correctly!

Neatness, Comments, Style

Quality of Code: Simple, well thought out

Nothing Late!

Homeworks

- Weekly
- Work independently

Reading

- ~60 pages / week
- Must keep up!
- Read material before lectures
[Re-read chapters]
- Will do textbook chapters in order
Chapter 1 (Introduction)
Chapter 2 (Scanning / Lexical Analysis)



To succeed...

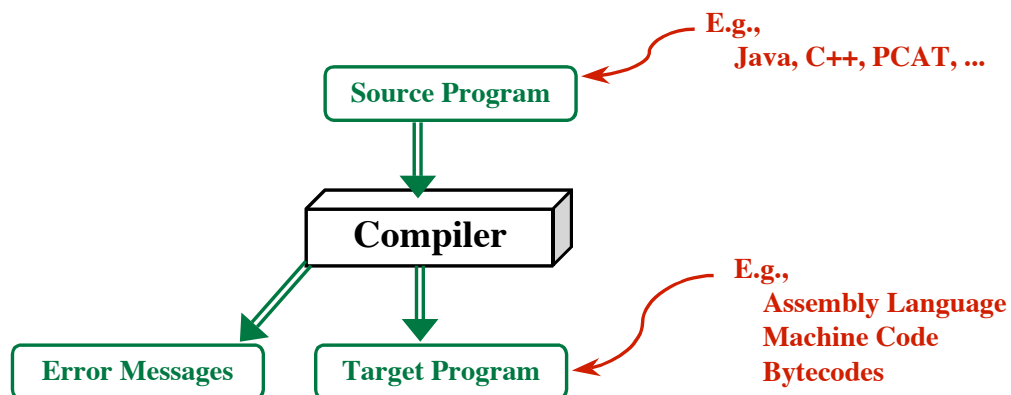
Assignment: Week 1

- Read chapter 1 from textbook
- Look at my Java “Summary” Paper (62 pages)
Scan and read what is unfamiliar
- Read my “Java Coding Style” document
- Type, compile, and execute “Hello World” program
Before 2nd class meeting
- Do Project 0
Before 3rd class meeting
- Look at / print out class lecture notes

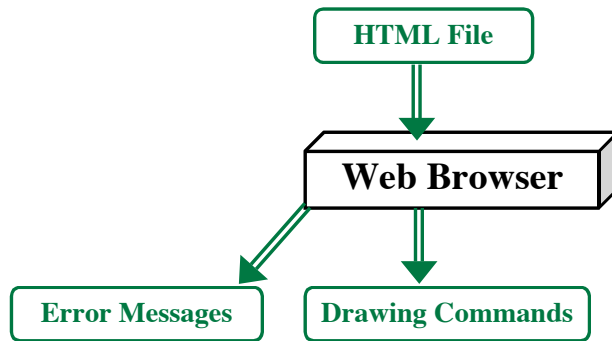
Assignment: Week 2

- Programming Project 1
Due before 5th class meeting
- Read chapter 2 from textbook
- HW #1
Due before 4th class meeting

OVERVIEW



Techniques are useful in similar tasks



Other Examples:

- Hardware Design Languages (HDLs)
- Query Processors
- Text Formatting

“Phases” of a Compiler

