

Concepts of Programming Languages, CSCI 305, Fall 2021 Programming Language Workshop and Paper

Language and team must be chosen by Sept. 3rd
Workshops will be Sept. 17 and Oct. 1

Bo Mortensen, Trevor Osborne, Eddie Pantoja will present Go 1st on Sept. 17
Matthew Gallagher, Ryan Hessler, Brandon Mitchell will present MatLab 2nd on Sept. 17

Nathan Blakenship, Tucker Kane, Tatum Gary will present F# 1st on Oct. 1
Noah Harbor, John Metesh, John Nelson will present Lua 2nd on Oct. 1st

Working in groups of 3, create and deliver a 50-minute workshop on a practical language of your choice.

Begin by presenting the purpose, context, and history of the language:

- tell why the group chose the language,
- explain what problem/area the language attempts to address,
- describe any new or significant features the language provides,
- give the strengths and weaknesses of the language,
- illustrate where the language fits in a historical context, that is, what ancestry languages this language is based on or inspired by, or what descendent languages this language inspired, and
- describe what will be accomplished in the solving problem portion of the workshop.

Describe any unusual syntax and provide a reference sheet for the language. This reference sheet should emphasize, or be specifically for the code that is needed in the workshop. Also, briefly describe the built-in data structures of the language, significant libraries provided, and the translation process (compiled, interpreted or some combination) for the language.

Walk the class through solving a problem for which the language is well suited. Use an exercise sheet for this portion of the workshop. While this is going on, the other group members will assist the class by walking around, answering questions.

The group turns in an approximately 6-page write-up on the workshop via Turn-It In (accessed via Moodle).

Turn in:

- Write-up which reads smoothly, has an introduction, conclusion and, while all members of the group contributed to writing this paper, the paper appears to be written by one person.
- Reference sheet
- Exercise sheet
- Visual aids

Let me know when your group has chosen a language. I will post it so another group does not choose the same language. The workshop can take around 1 hour.

Your classmates may provide feedback for your presentation using the following form.

Modified Oral Assessment Form

Course Number: CSCI 305 **Semester:** Fall 2021 **Date:** Sept. 17th or Oct. 1st

Presenters:

Topic: Programming Language Workshop

Audience types: (2) Peers

Content 1 = Poor, 2 = Needs Improvement, 3 = Good, 4 = Excellent

Material is relevant to topic	1 2 3 4
Topic is explored in depth - purpose <ul style="list-style-type: none"> • Why the group chose the language • Problem/area the language attempts to address • Significant features the language provides • Strengths and weaknesses of the language • Historical context 	1 2 3 4
Topic is explored in depth - syntax <ul style="list-style-type: none"> • Unusual syntax • Reference sheet • Built-in data structures • Significant libraries • Translation process 	1 2 3 4
Topic is explored in depth <ul style="list-style-type: none"> • Walked class through solving a problem for which the language is well suited. • Exercise sheet 	1 2 3 4
Topic is explored in depth	1 2 3 4
Student is competent and knowledgeable about topic	1 2 3 4
Reliable sources were used, text from outside sources are quoted and referenced and references are in APA format	1 2 3 4

Organization

Clear overview / objectives are given	1 2 3 4
Major issues are covered	1 2 3 4
Presentation has a logical sequence with smooth transitions	1 2 3 4
Clear conclusion or summary is given	1 2 3 4

Delivery

Students project confidence and mastery	1 2 3 4
Students are relaxed, natural and spontaneous*	1 2 3 4
Students speak clearly*	1 2 3 4
Appropriate vocabulary and grammar are used	1 2 3 4
Infrequent use of notes are made	1 2 3 4
Students maintains eye contact with audience	1 2 3 4

Effective use is made of visual / technical aids*	1 2 3 4
Presentation is within the time limitations*	1 2 3 4
Answers questions effectively (demonstrates knowledge of topic)	1 2 3 4

* See notes on the back.

Space is available for comments or notes on the back.

Notes

Delivery

- Student is relaxed, natural and spontaneous – the presentation was not rushed
- Student speaks clearly – No um's, ah's, etc.
- Effective use is made of visual / technical aids - Avoid distracting special effects
- Presentation is within the time limitations - The length of the presentation is within the specified times, neither too long nor too short

Comments:

This assignment will be graded using the following form.

Concepts of Programming Languages, CSCI 305, Fall 2021 Programming Language Presentation and Paper

Presentation (40 points)	
Completeness of presentation content ○ Purpose ○ Syntax	1 2 3 4
Quality of presentation content	1 2 3 4
Organization of presentation	1 2 3 4
Delivery or presentation	1 2 3 4
Paper (20 points)	
Completeness of paper content	1 2 3 4
Quality of paper content	1 2 3 4
Organization of paper (Title and subheadings are used, paragraphs are cohesive, introductory and concluding paragraph)	1 2 3 4
Mechanics (grammar, spelling, tone and length are appropriate, references are in APA format)	1 2 3 4
Reference sheet (10 points)	
Quality	1 2 3 4

Workshop (20 points)				
Quality				1 2 3 4
Slides (10 points)				
Printer 4 to a page.				1 2 3 4