

CSCI 334:
Principles of Programming Languages

Lecture 12: Designing ASTs

Instructor: Dan Barowy
Williams

Topics

Designing ASTs

Your to-dos

1. Do **this week's quiz** (take home).
2. Read *Parsing* for next week's lab.
3. Lab 8, **due Wednesday, April 16** (partner lab).
Give yourself enough time to do this one.

Announcements

- Class of 1960's speaker series: **Tim Kraska, MIT!**
- *Generative AI is Overhyped But Real*, **Thurs, Apr 10 @ 7:30pm in Wachenheim Auditorium**
- *ML and Generative AI for Data Systems*, **Thurs, Apr 11 @ 2:35pm in Wege Auditorium**



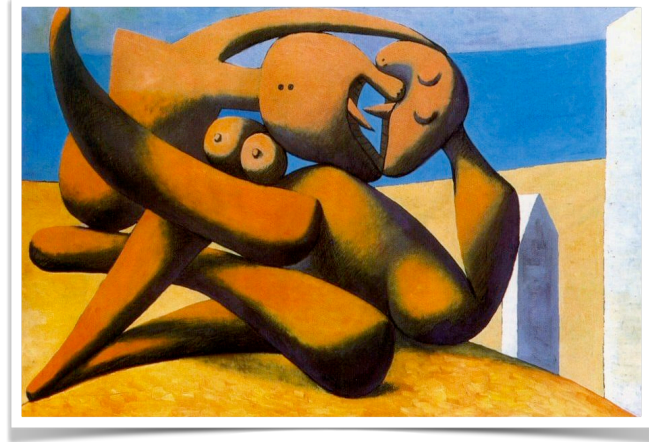
Tim Kraska is an Associate Professor of Electrical Engineering and Computer Science in MIT's Computer Science and Artificial Intelligence Laboratory, co-director of the new GenAI Impact Initiative at MIT, a director of applied science at Amazon Web Services (AWS), and was a co-founder of Instancio and of Einblick Analytics (both acquired). Currently, his research focuses on using ML/GAI for (data) systems and agentic systems. Before joining MIT, Tim was an Assistant Professor at Brown and spent time at Google Brain. Tim is a 2017 Alfred P. Sloan Research Fellow in computer science and received several awards including the VLDB Early Career Research Contribution Award, the Intel Outstanding Researcher Award, the VMware Systems Research Award, the university-wide Early Career Research Achievement Award at Brown University, an NSF CAREER Award, as well as several best paper and demo awards.

Announcements

Please **consider being a TA** next semester
(especially for this class!)

Applications **due Friday, April 18.**

<https://csci.williams.edu/tatutor-application/>



Many of the tasks ahead will
feel abstract until you **try them**.
Dive in. Learn by doing.

Language of Lines

Recap & Next Class

Today:

Designing an AST

Next class:

Program evaluation