

- **Faculty**

- Misconceptions (2 examples)
 - Language X is last PL (web, parallelism)
 - If I can program, I know the language (trace visitor pattern)
- Recent successes (progress not all thanks to new algorithms)
 - Web 2.0 (enabling technology)
 - map/reduce
 - Analysis in real world
- Central to CS --- intellectual deep, bright future
 - Turing awards (past)
 - Research challenges (future): Multicore programming, verification

- **Students**

- 15 challenging questions for students
 - Why stackless Python rather Python in distributed game?
- How to use hot languages without getting burned (avoid language pitfalls)
- Build large systems on small languages
- Future languages will be built out of intellectual building blocks we understand today