

# Concepts of Programming Languages

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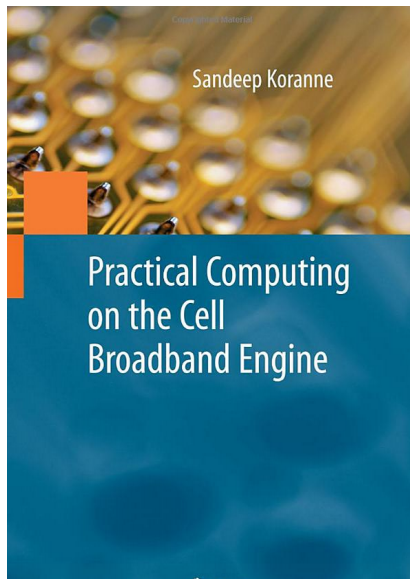
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# Outline

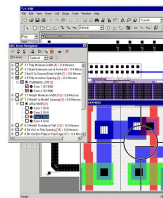
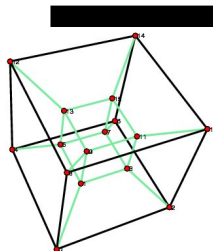
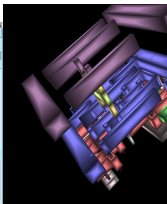
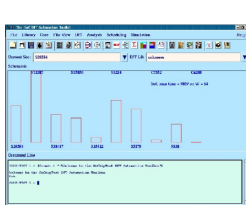
# Instructor Background

- Chief Scientist at Mentor Graphics
- Research background in algorithms, data structures, parallel programming, compiler optimization and graph theory
- Programming background in Common Lisp, Fortran, C, C++, Python, Erlang, etc

# Previous Research



# Programming Experience



## Motivation

## A simple slide

This slide consists of some text with a number of bullet points:

- the first, very @important@, point!
- the previous point shows the use of the special markup which translates to the Beamer specific *alert* command for highlighting text

# Quadratic Equations

## Basic form

This is the equation  $x = \frac{a}{b}$



## Example (Example code)

This is an example (defun fac(n) (+ n 2))

# C++ Code Example

## Fibonacci Numbers

```
// Example : fibo.cpp
//
#include <iostream>
unsigned long fibonacci(unsigned long N)
{
    unsigned long f0 = 0;
    unsigned long f1 = 1;
    unsigned long fn = 0;

    for( unsigned int i=0; i < N; ++i ) {
        fn = f1 + f0;
        f0 = f1;
        f1 = fn;
    }
    return fn;
}

int main()
{
    for( unsigned long i=0; i < 10; ++i ) {
        std::cout << "F_" << i << " = " << fibonacci( i ) << std::endl;
    }
    return 0;
}
```

(END)