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# Introduction to Computation and Programming Using Python

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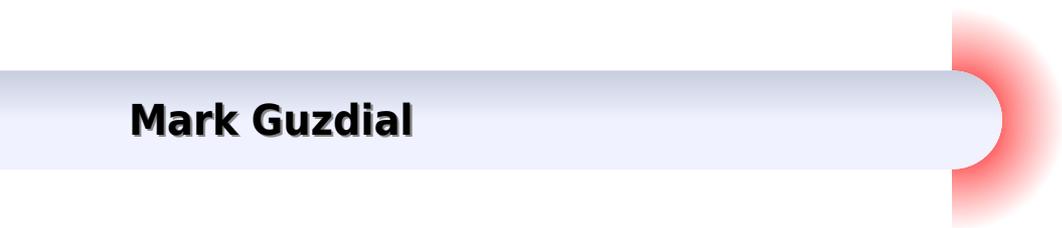
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**John V. Guttag**

# Introduction To Computation And Programming Using Python Revised Am

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*Sys Admin*, 2004

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OpenCourseWare and was developed for use not only in a conventional classroom but in in a massive open online course MOOC This new edition has been updated for Python 3 reorganized to make it easier to use for courses that cover only a subset of the material and offers additional material including five new chapters Students are introduced to Python and the basics of programming in the context of such computational concepts and techniques as exhaustive enumeration bisection search and efficient approximation algorithms Although it covers such traditional topics as computational complexity and simple algorithms the book focuses on a wide range of topics not found in most introductory texts including information visualization simulations to model randomness computational techniques to understand data and statistical techniques that inform and misinform as well as two related but relatively advanced topics optimization problems and dynamic programming This edition offers expanded material on statistics and machine learning and new chapters on Frequentist and Bayesian statistics

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