



# Python Programming for Raspberry Pi, Sams Teach Yourself in 24 Hours (2nd Edition) (Sams Teach Yourself -- Hours)

By Richard Blum, Christine Bresnahan

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Python Programming for Raspberry Pi®

In just 24 sessions of one hour or less, *Sams Teach Yourself Python Programming for Raspberry Pi in 24 Hours* teaches you Python programming on Raspberry Pi, so you can start creating awesome projects for home automation, home theater, gaming, and more. Using this book's straight-forward, step-by-step approach, you'll move from the absolute basics all the way through network and web connections, multimedia, and even connecting with electronic circuits for sensing and robotics. Every lesson and case study application builds on what you've already learned, giving you a rock-solid foundation for real-world success!

- Step-by-step instructions carefully walk you through the most common Raspberry Pi Python programming tasks.
- Quizzes at the end of each chapter help you test your knowledge.
- By the Way notes present interesting information related to the discussion.
- Did You Know? tips offer advice or show you easier ways to perform tasks.
- Watch Out! cautions alert you to possible problems and give you advice on how to avoid them.

Richard Blum has administered systems and networks for more than 25 years. He has published numerous Linux and open source books, and is an online instructor for web programming and Linux courses used by colleges across the United States. His books include *Ubuntu Linux Secrets*; *Linux for Dummies*, Ninth Edition; *PostgreSQL 8 for Windows*; and *Professional Linux Programming*. Christine Bresnahan began working as a systems administrator more than 25 years ago. Now an Adjunct Professor at Ivy Tech Community College, she teaches Python programming, Linux administration and computer security. She is coauthor of *The Linux Bible*, Eighth Edition. With Blum, she also coauthored

*Linux Command Line & Shell Scripting Bible*, Second Edition.

- Get your Raspberry Pi and choose the right low-cost peripherals
- Set up Raspian Linux and the Python programming environment
- Learn Python basics, including arithmetic and structured commands
- Master Python 3 lists, tuples, dictionaries, sets, strings, files, and modules
- Reuse the same Python code in multiple locations with functions
- Manipulate string data efficiently with regular expressions
- Practice simple object-oriented programming techniques
- Use exception handling to make your code more reliable
- Program modern graphical user interfaces with Raspberry Pi and OpenGL
- Create Raspberry Pi games with the PyGame library
- Learn network, web, and database techniques you can also use in business software
- Write Python scripts that send email
- Interact with other devices through Raspberry Pi's GPIO interface
- Walk through example Raspberry Pi projects that inspire you to do even more

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### Editorial Review

#### About the Author

**Richard Blum** has worked in the IT industry for more than 30 years as a network and systems administrator, managing Microsoft, Unix, Linux, and Novell servers for a network with more than 3,500 users. He has developed and teaches programming and Linux courses via the Internet to colleges and universities worldwide. Rich has a master's degree in management information systems from Purdue University and is the author of several Linux books, including *Linux Command Line and Shell Scripting Bible* (coauthored with Christine Bresnahan); *Linux for Dummies*, Ninth Edition; and *Professional Linux Programming* (coauthored with Jon Masters). When he's not busy being a computer nerd, Rich enjoys spending time with his wife, Barbara, and two daughters, Katie Jane and Jessica.

**Christine Bresnahan** started working in the IT industry more than 30 years ago as a system administrator. Christine is currently an adjunct professor at Ivy Tech Community College in Indianapolis, Indiana, teaching Python programming, Linux system administration, and Linux security classes. Christine produces Unix/Linux educational material and is the author of *Linux Bible*, Eighth Edition (coauthored with Christopher Negus) and *Linux Command Line and Shell Scripting Bible* (coauthored with Richard Blum). She has been an enthusiastic owner of a Raspberry Pi since 2012.

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