

1. Record Nr.	UNINA9910810554503321
Autore	Idris Ivan
Titolo	Learning NumPy Array : supercharge your scientific Python computations by understanding how to use the NumPy library effectively / / Ivan Idris ; Duraid Fatouhi, cover image
Pubbl/distr/stampa	Birmingham, England : , : Packt Publishing, , 2014 ©2014
ISBN	1-78398-391-4
Edizione	[1st edition]
Descrizione fisica	1 online resource (164 p.)
Collana	Community experience distilled
Disciplina	005.133
Soggetti	Python (Computer program language) Numerical analysis - Data processing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Cover; Copyright; Credits; About the Author; About the Reviewers; www.PacktPub.com; Table of Contents; Preface; Chapter 1: Getting Started with NumPy; Python; Installing NumPy, Matplotlib, SciPy, and IPython on Windows; Installing NumPy, Matplotlib, SciPy, and IPython on Linux; Installing NumPy, Matplotlib, and SciPy on Mac OS X; Building from source; NumPy arrays; Adding arrays; Online resources and help; Summary; Chapter 2: NumPy Basics; The NumPy array object; The advantages of using NumPy arrays; Creating a multidimensional array; Selecting array elements; NumPy numerical types Data type objectsCharacter codes; dtype constructors; dtype attributes; Creating a record data type; One-dimensional slicing and indexing; Manipulating array shapes; Stacking arrays; Splitting arrays; Array attributes; Converting arrays; Creating views and copies; Fancy indexing; Indexing with a list of locations; Indexing arrays with Booleans; Stride tricks for Sudoku; Broadcasting arrays; Summary; Chapter 3: Basic Data Analysis with NumPy; Introducing the dataset; Determining the daily temperature range; Looking for evidence of global warming; Comparing solar radiation versus temperature Analyzing wind directionAnalyzing wind speed; Analyzing precipitation and sunshine duration; Analyzing monthly precipitation in De Bilt; Analyzing atmospheric pressure in De Bilt; Analyzing atmospheric

humidity in De Bilt; Summary; Chapter 4: Simple Predictive Analytics with NumPy; Examining autocorrelation of average temperature with pandas; Describing data with pandas DataFrames; Correlating weather and stocks with pandas; Predicting temperature; Autoregressive model with lag 1; Autoregressive model with lag 2; Analysing intra-year daily average temperatures

Introducing the day-of-the-year temperature model; Modeling temperature with the SciPy leastsq function; Day-of-year temperature take two; Moving-average temperature model with lag 1; The Autoregressive Moving Average temperature model; The time-dependent temperature mean adjusted autoregressive model; Outliers analysis of average De Bilt temperature; Using more robust statistics; Summary; Chapter 5: Signal Processing Techniques; Introducing the Sunspot data; Sifting continued; Moving averages; Smoothing functions; Forecasting with an ARMA model; Filtering a signal; Designing the filter Demonstrating cointegration; Summary; Chapter 6: Profiling, Debugging, and Testing; Assert functions; The assert\_almost\_equal function; Approximately equal arrays; The assert\_array\_almost\_equal function; Profiling a program with IPython; Debugging with IPython; Performing Unit tests; Nose tests decorators; Summary; Chapter 7: The Scientific Python Ecosystem; Numerical integration; Interpolation; Using Cython with NumPy; Clustering stocks with scikit-learn; Detecting corners; Comparing NumPy to Blaze; Summary; Index

---

## Sommario/riassunto

A step-by-step guide, packed with examples of practical numerical analysis that will give you a comprehensive, but concise overview of NumPy. This book is for programmers, scientists, or engineers, who have basic Python knowledge and would like to be able to do numerical computations with Python.

---

2. Record Nr.	UNINA9910810072403321
Titolo	WHO report on the global tobacco epidemic, 2013 : enforcing bans on tobacco advertising, promotion and sponsorship / / World Health Organization
Pubbl/distr/stampa	Geneva, Switzerland : , : World Health Organization, , [2013] ©2013
ISBN	92-4-069160-X
Descrizione fisica	1 online resource (210 p.)
Disciplina	0062.29 362.29/66
Soggetti	Smoking cessation Advertising - Tobacco Tobacco industry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Includes a special section on five years of progress"--Cover.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Cover; Contents; ONE THIRD OF THE WORLD'S POPULATION - 2.3 BILLION PEOPLE - ARE NOW COVERED BY AT LEAST ONE EFFECTIVE TOBACCO CONTROL MEASURE; A letter from WHO Assistant Director-General; SUMMARY; WHO FRAMEWORK CONVENTION ON TOBACCO CONTROL; Article 13 - Tobacco advertising, promotion and sponsorship; Guidelines for implementation of Article 13; Scope of a comprehensive ban; Constitutional principles in relation to a comprehensive ban; Consistency; Responsible entities; Domestic enforcement of laws on tobacco advertising, promotion and sponsorship; Public education and community awareness ENFORCE BANS ON TOBACCO ADVERTISING, PROMOTION AND SPONSORSHIP Tobacco companies spend billions of US dollars on advertising, promotion and sponsorship every year; Tobacco advertising, promotion and sponsorship increase the likelihood that people will start or continue to smoke; Tobacco companies target low- and middle-income countries; Advertising, promotion and sponsorship activities normalize and glamourize tobacco use; Complete bans are needed to counteract the effects of tobacco advertising, promotion and

## sponsorship

Bans on tobacco advertising, promotion and sponsorship are effective at reducing smoking Partial bans and voluntary restrictions are ineffective; Bans must completely cover all types of tobacco advertising, promotion and sponsorship; Bans on direct advertising; Bans on indirect advertising, promotion and sponsorship; Point-of-sale bans are a key policy intervention; "Corporate social responsibility" initiatives should be prohibited; The tobacco industry will strongly oppose bans on its advertising, promotion and sponsorship activities; Industry arguments can be effectively countered

Effective legislation must be enforced and monitored Political will and public support are necessary; Bans should be announced in advance of implementation; International and cross border bans can be enforced; Legislation should be updated to address new products and industry tactics; Penalties for violations must be high to be effective; Potential new areas for legislation; Monitoring of tobacco advertising, promotion and sponsorship activities is essential; Coordination with other government ministries and civil society organizations is important; **COMBATING TOBACCO INDUSTRY INTERFERENCE**

Tobacco industry interference with tobacco control can be neutralized Countering industry tactics; **FIVE YEARS OF PROGRESS IN GLOBAL TOBACCO CONTROL**; One third of the world's people are protected by at least one effective tobacco control measure; Most progress has been in low- and middle-income countries; Some tobacco control measures have become more established than others; More progress is needed in all countries; Turkey marks singular achievement in tobacco control; **ACHIEVEMENT CONTINUES BUT MUCH WORK REMAINS**; Monitor tobacco use and prevention policies

Monitoring is critical to tobacco control efforts

## Sommario/riassunto

This report WHO's fourth in the series provides a country-level examination of the global tobacco epidemic and identifies countries that have applied selected measures for reducing tobacco use. Five years ago WHO introduced the MPOWER measures as a practical cost-effective way to scale up implementation of specific provisions of the WHO FCTC on the ground. This report focuses on enforcing bans on tobacco advertising promotion and sponsorship (TAPS). TAPS bans are one of the most powerful tools that countries can put in place to protect their populations. In the past two years impressive progress has been made