

# ANACONDA

Open Source Modern Analytics Platform Powered by Python

## KEY FEATURES

### › 100% Open Source Modern Analytics Platform Powered by Python

- Single click installation
- Package management
- Works with Windows, OS X, Linux
- Commercial redistribution

### › Open Data Science

- 330+ most popular Python & R packages
- Stats, Machine Learning, Ensemble Models, Deep Learning, Text & NLP, Geospatial, Simulation & Optimization

### › Data Engineering

- Packages for data prep & transformations
- Automated & simplified data migration across SQL, Hadoop, NoSQL, CSV, JSON & XLS files

### › Big Data

- Hadoop, Spark, Clusters & GPUs
- Optimized parallelized analytics
- Multi-core & out-of-core processing
- Cloud burst computing

### › High performance computing

- Compiled Python
- GPU optimized analytics including deep learning
- Distribute algorithms

## ANACONDA DELIVERS OPEN ENTERPRISE PYTHON

Built to complement the rich open source Python community, the Anaconda platform provides an enterprise ready data analytics platform that empowers companies to adopt a modern open data science analytics architecture.

With Python at its core, Anaconda is a platform for connecting your expertise and curiosity with data to explore and deploy innovative analytic apps that solve challenging problems with ease and agility. Processing multi-workload data analytics – from batch through interactive to real-time – the platform is used for both ad hoc and production deployments. Anaconda is tuned to take advantage of modern computing environments – everything from multi-core servers, to Spark and Hadoop, to GPUs – delivering flexibility and allowing you to maximize your infrastructure investment. All of this plus the key capabilities required of a open source modern analytics platform – spanning advanced analytics, interactive visualizations, governance, security and operational support – makes Anaconda the best choice for open data science.

## WHY YOU'LL LOVE ANACONDA

### Committed to open source. Now and forever.

We believe in the power of open source and will always be first and foremost an open source platform. Our founders and team are active, committed contributors to the Python ecosystem, inspiring and innovating some of the most popular Python packages. Our Anaconda community is over 1M+ strong worldwide and is doubling each year. With Anaconda, you'll never again experience vendor lock-in.

### We have you covered. Anaconda is tested and certified.

Anaconda makes it easy for you to install and maintain Python environments. Our development team tests to ensure compatibility of all the Python packages in our Anaconda platform. We support and indemnify Anaconda to mitigate your risk in using open source and meet your regulatory compliance requirements.

### Explore and visualize complex data easily.

Use your experience and curiosity to explore and analyze your data. Choose from a rich set of interactive visualizations to bring your data to life and tell an insightful story. Discover new patterns and anomalies that empower your team to realize impactful value from your data.

## KEY FEATURES

### › Python Integration with Apache Stack

- Real-time processing & brokering
- Semi-structured data search with Elasticsearch
- Web & network crawling

### › Exploration & Visualization

- Interactive web based exploration & visualization
- Big Data visualization using data shading
- Real-time streaming visualization

### › Collaboration

- Publish & share packages, notebooks & runtime environments
- Revision control & locking

### › Deployment

- Write once & deploy anywhere
- Package dependency checking & controls
- Indemnification & IP liability assurance

### › Installation & Maintenance

- Enterprise level authentication
- Air gapped environments

### Everything you ever wanted for Analytics and more.

Python is the fastest growing language for data science. Anaconda includes 330+ Python open source packages and now includes essential R packages. This powerful combination allows you to do everything you want from BI to advanced modeling on complex Big Data.

### Best of both worlds. Develop on your desktop and scale up to high performance easily.

Anaconda empowers you to easily scale out and parallelize your analytics. Write once and deploy anywhere – Hadoop, Spark, clusters, GPUs, servers – to get the throughput and performance you need to meet your SLAs. Maximize your computing infrastructure with built in parallelized analytics.

### Data science is a team sport. Collaborate with your team anywhere in the world.

Great collaboration starts with great communication. Anaconda simplifies publishing of reproducible packages and notebooks including the runtime environment making your working context portable. Notebooks make it easy for everyone on the team – data scientists, business analysts, ops – to see or hide the code, documentation, plots, and interactive visualizations. Sharing this transparently aligns the team, streamlines feedback, and expedites deployment.

### Everyone knows, the really hard work is (still) the data engineering.

Understanding data and transforming it is crucial to getting accurate results from your data science efforts. Data engineering requires a broad set of capabilities to ingest the data from any data source and perform transformation from simple data treatments to highly complex, interdependent transformations. As the leading open source modern analytics platform, Anaconda includes the flexibility and power you need to perform all your data engineering.

### Future proof your work with open connectors.

Integrating data from the wide variety of internal and external data sources can be daunting, but not with Anaconda. Over the years, the Python community has developed a large quantity of open source connectors that have been validated to integrate everything from the most commonly used systems to the most obscure. The open design of Python allows it to be easily wrapped into other languages or to be the wrapper for other languages. This flexibility allows you to leverage legacy code and data to bring it forward into modern architectures.

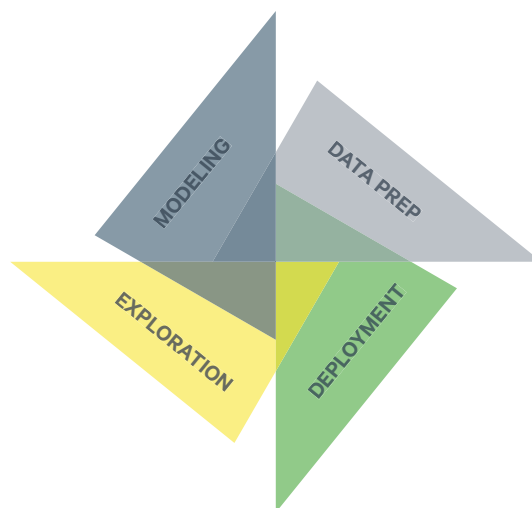
**DOWNLOAD ANACONDA**

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## THE REALITY TODAY IS THAT AGILITY IS KING.

AGILITY REQUIRES EXPLORATION, VISUALIZATION, AND PROTOTYPES THAT CAN MOVE TO PRODUCTION WITHOUT THE TRADITIONAL HURDLES

The days of siloed model building and separate operational deployment are fading quickly. Modern enterprises are demanding faster development cycles with greater flexibility that can meet the fast paced, everchanging needs of the world around us. Anaconda fuses together the phases – from data ingestion to exploration through to deployment – eradicating the traditional data analytics bottlenecks and hurdles.



### DOWNLOAD ANACONDA

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APP	Notebooks		Embeddable Dashboards		Data Services		Visual Apps		
VIZ	Plots	Interactive Viz		Big Data	Maps & GIS	3D	Streaming	Graphs	
STORYBOARD	Notebooks		Interactive Exploration		Visual Programming		Data IDEs		
ANALYTICS	Data Prep		Stats	ML & Ensembles		Deep Learning		Simulation & Optimization	
	Geospatial		Text & NLP		Video/Image/Audio Mining		Graph & Network		
DATA	Hadoop & Hive		Spark	NoSQL	DW & SQL	Files & Web Services			
HW	Servers		Clusters	GPUs & High End Workstations					

APP

VIZ

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ANALYTICS

DATA

HW

## ANACONDA EXPLOITS MODERN HARDWARE

### SERVERS

- › Enterprise ready packages for bare metal, VM & private Cloud
- › Native cross platform support Linux & Windows
- › Centralized management
- › Governance & compliance
- › Enterprise security

### CLUSTERS

- › High performance distributed computing
- › Power8 packages
- › Package deployment to nodes in cluster
- › Open source certified
  - Numba
  - IPython / Jupyter Parallel
  - mpi4py

### GPUs & WORKSTATIONS

- › Acceleration using GPUS & multi-cores
- › Open source certified
  - pycuda
  - Theano
  - Dask
  - numexpr

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## ANACONDA INGESTS MODERN DATA

### BIG DATA

- › High performance distributed computing
- › Package deployment to nodes in cluster
- › Authentication via Kerberos
- › Open source certified
  - Blaze
  - odo
  - mrjob

### SPARK

- › High performance distributed computing
- › Package deployment to nodes in cluster
- › Open source certified
  - pyspark
  - Blaze
  - odo

### NOSQL

- › High speed, memory efficient connector
- › Open source certified
  - Blaze
  - odo
  - pymongo

### DW & SQL

- › High speed, memory efficient connectors
- › Open source certified
  - Blaze
  - SQLAlchemy
  - odo
  - pyODBC
  - Petl
  - mxODBC
  - PyETL
  - OS SQL tools
  - Cubes

### FILES & WEB SERVICES

- › JSON, CSV, XLS schematized on read with dynamic index
- › Scientific & GIS formats
- › Open source certified
  - Pandas
  - HDF5 / NetCDF4
  - Blaze

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## ANACONDA SCALES MODERN ANALYTICS

### DATA PREP

- › Open source certified
  - Pandas
  - Blaze
  - odo
  - Python std lib
  - R plyr
  - R dplyr
  - R tidy
  - R reshape2
  - R data table
  - R Markdown
  - R jsonlite
  - R zoo

### STATS

- › Open source certified
  - SciPy
  - PyMC
  - Pandas
  - StatsModels

### ML & ENSEMBLES

- › Open source certified
  - scikit-learn
  - Pylearn2
  - Theano
  - R caret
  - R randomForest
  - R glmnet

### DEEP LEARNING

- › Open source certified
  - Theano
  - pycaffe

### SIMULATION & OPTIMIZATION

- › Open source certified
  - SimPy
  - PyJMI
  - PyFMI
  - PySimulator
  - PyMC
  - SciPy
  - Pyomo / Coopr
  - CVXOPT
  - CVXPY
  - tao4py
  - pyOpt
  - Pylpopt
  - PyGMO

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## ANACONDA SCALES MODERN ANALYTICS

### GEOSPATIAL

- › Open source certified
  - GeoPandas
  - GDAL
  - basemap
  - PostGIS

### TEXT & NLP

- › Open source certified
  - NLTK
  - spaCy
  - MITIE
  - gensim

### GRAPH & NETWORK

- › Dato
- › Open source certified
  - NetworkX
  - SNAP

### VIDEO / IMAGE / AUDIO MINING

- › Open source certified
  - scikit image
  - OpenCV
  - PyAudio
  - SciPy

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## ANACONDA USES MODERN STORYBOARDS

### NOTEBOOKS

- › Open source certified
  - Jupyter / IPython
  - R Jupyter
  - R Markdown

### INTERACTIVE EXPLORATION

- › Open source certified
  - Bokeh
  - Jupyter / IPython
  - Veusz
  - R Bokeh
  - R Shiny

### VISUAL PROGRAMMING

- › KNIME
- › Open source certified
  - Orange

### DATA IDE

- › R Studio
- › Open source certified
  - Spyder

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## ANACONDA INSPIRES MODERN VISUALIZATION

### PLOTS

- › Open source certified
  - Bokeh
  - matplotlib
  - seaborn
  - R ggplot2
  - R Shiny
  - R Bokeh
  - R quantmod

### INTERACTIVE VIZ

- › Open source certified
  - Bokeh
  - PyQtGraph
  - Veusz
  - R Bokeh
  - R Shiny

### BIG DATA

- › Open source certified
  - Bokeh
  - matplotlib
  - PyQtGraph
  - MPLD3
  - NetworkX

### STREAMING

- › Open source certified
  - Bokeh

### MAPS & GIS

- › Open source certified
  - Bokeh
  - Basemap
  - PyNGL
  - R Bokeh

### 3D

- › Open source certified
  - matplotlib
  - VisPy
  - PyQwt
  - MayaVi / VTK

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## ANACONDA DELIVERS MODERN APPS

### NOTEBOOKS

- › Open source certified
  - Jupyter / IPython
  - R Jupyter
  - R markdown

### EMBEDDABLE DASHBOARDS

- › Open source certified
  - Bokeh
  - Vincent
  - R Bokeh

### VISUAL APPS

- › Open source certified
  - Bokeh
  - PhosphorJS
  - Jupyter / IPython
  - R Bokeh
  - R Shiny

### DATA SERVICES

- › Open source certified
  - Python DB APIs
  - Blaze
  - Eve
  - Sandman

### ANACONDA

Open Source  
Modern Analytics Platform  
Powered by Python

**FREE DOWNLOAD**  
[continuum.io/tryAnaconda](http://continuum.io/tryAnaconda)

### ANACONDA PRO

Anaconda with  
Support & Indemnification

**CONTACT SALES**  
[sales@continuum.io](mailto:sales@continuum.io)

### ANACONDA WORKGROUP

Anaconda with High  
Performance and Team  
Collaboration

**CONTACT SALES**  
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### ANACONDA ENTERPRISE

Anaconda with Scalable  
High Performance and  
Team Collaboration

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# CONTINUUM<sup>®</sup>

## ANALYTICS

### ABOUT CONTINUUM ANALYTICS

Continuum Analytics develops Anaconda, the leading modern open source analytics platform powered by Python. Built on proven open source technology and easily integrated within existing IT environments, Anaconda allows organizations to make critical business decisions based on their data quickly, easily, inexpensively,

and with flexibility. Continuum's founders and developers have created or contribute to some of the most popular data science technologies, including NumPy, SciPy, Pandas, Jupyter/IPython, and many others. To learn more about the Anaconda platform, training and consulting services, visit [continuum.io](http://continuum.io)