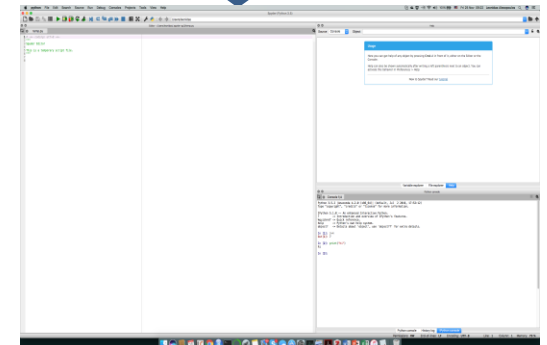
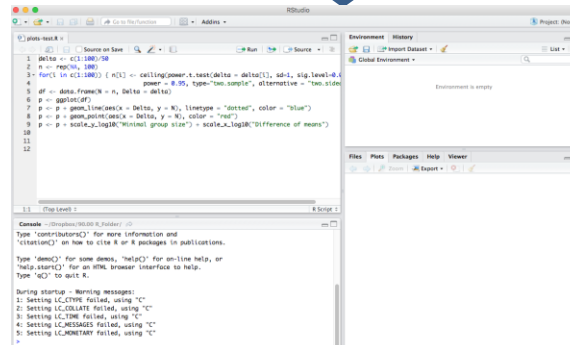
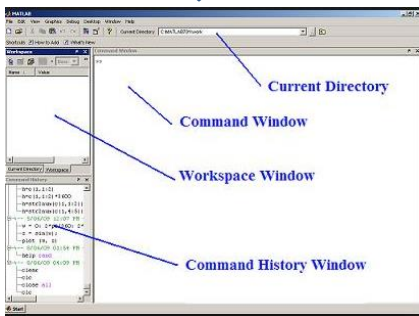


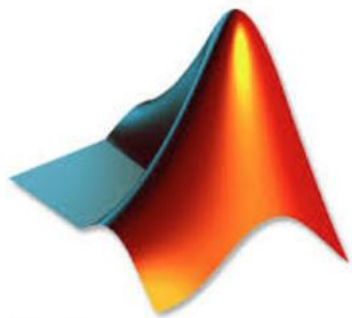
# Ανακοινώσεις

- ΤΗΝ ΑΛΛΗ ΠΑΡΑΣΚΕΥΗ ΣΤΟ ΚΕΝΤΡΟ Η/Υ  
ΓΙΑ ΦΕΤΟΣ:
- 2 ΝΕΕΣ ΓΛΩΣΣΕΣ ΠΡΟΓΡΑΜΜΑΤΙΣΜΟΥ



# Ανακοινώσεις

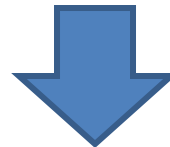
- ΤΗΝ ΑΛΛΗ ΠΑΡΑΣΚΕΥΗ ΣΤΟ ΚΕΝΤΡΟ Η/Υ  
ΓΙΑ ΦΕΤΟΣ:
- 2 ΝΕΕΣ ΓΛΩΣΣΕΣ ΠΡΟΓΡΑΜΜΑΤΙΣΜΟΥ



**MATLAB**  
The Language of Technical Computing



ΚΕΝΤΡΟ  
Η/Υ



DataCamp




























































spyder



DataCamp

## Language Types (click to hide)

 Web
  Mobile
  Enterprise
  Embedded

Language Rank	Types	Spectrum Ranking
1. C	  	100.0
2. Java	  	98.1
★ 3. Python	 	98.0
4. C++	  	95.9
★ 5. R		87.9
6. C#	  	86.7
7. PHP		82.8
8. JavaScript	 	82.2
9. Ruby	 	74.5
10. Go	 	71.9
11. Swift	 	70.1
12. Arduino		69.9
13. Assembly		68.6
★ 14. Matlab		68.5
15. Scala	 	66.9
16. HTML		65.6
17. Perl	 	58.5
18. Visual Basic		56.8
19. Shell		54.2
20. Objective-C	 	53.4
21. Cuda		53.2
22. Lua	 	52.1
23. Processing	 	50.5
24. SQL		49.8
25. Haskell	 	44.1
26. Rust	 	43.3
27. Fortran		42.2
28. Delphi	 	42.1
29. D	 	38.9
30. LabView	 	35.7

R  
Python  
Matlab

*\*\*General Use of Languages (not for engineers)*



<http://spectrum.ieee.org/static/interactive-the-top-programming-languages-2016>  
<http://spectrum.ieee.org/computing/software/top-programming-languages-trends-the-rise-of-big-data>

*\*\*General Use of Languages (not for engineers)*

# Για το datacamp

- Κάντε sign up με το όνομά σας στα Ελληνικά (Δείτε πως κατεβάζω την λίστα και τι βλέπω)
- Οι ασκήσεις στο datacamp είναι υποχρεωτικές
- Περίπου μία άσκηση κάθε 10 μέρες (είναι ευκολες)

user_email	user_name	group_role	% completion	introduction_	introduction_	intermediate_
leoalexopoulos@gmail.com	Leonidas Alexopoulos	admin	1.0	11/06/2016	11/12/2016	0.991608391
xriskarras@gmail.com	Christos Karras	member	1.0	11/10/2016	11/11/2016	0.0
soulkostas@hotmail.com		member	1.0	11/11/2016	11/12/2016	0.006993006
avaggelatos@gmail.com	Zacharias Vangelatos	member	0	/	/	0.0
thanosfotos@gmail.com		member	0	/	/	0.0
giannispapagiannoulis95@gmail.com	Ιωάννης Παπαγιαννούλης	member	0	/	/	0.0
alexnic31@gmail.com		member	1.0	11/11/2016	11/12/2016	0.0

## General Information



Intermediate R

Nov 14, 2016

Nov 23, 2016

30

4



Introduction to R

Nov 13, 2016

Nov 21, 2016

38

4

First Name

Λεωνίδας

Last Name

Αλεξόπουλος

# Premium access till May 16<sup>th</sup> 2016

## Approved

Congratulations! Your DataCamp Classroom Account was approved. All invited students have full access until **16 May 2017**.



### Introduction to R FREE

In this introduction to R, you will master the basics of this beautiful open source language, inc...

4 hours

272,949 Participants



### Intro to Python for Data Science FREE

Python is a general-purpose programming language that is becoming more and more popular for doing...

4 hours

76,755 Participants



### Intermediate R

The intermediate R course is the logical next stop on your journey in the R programming language....

6 hours

83,725 Participants



### Intermediate Python for Data Science

The intermediate python course is crucial to your data science curriculum. Learn to visualize rea...

4 hours

30,510 Participants

- R Programming
- Python Programming
- Data Manipulation
- Data Visualization
- Reporting
- Machine Learning
- Probability & Statistics
- Importing & Cleaning Data
- Applied Finance

# Premium access till May 16<sup>th</sup> 2016

## Approved

Congratulations! Your DataCamp Classroom Account was approved. All invited students have full access until **16 May 2017**.



### Working with the RStudio IDE (Part 1)

In the first part of this two-part course on Working with the RStudio IDE, you will learn the bas...

3 hours

1,138 Participants



### Working with the RStudio IDE (Part 2)

In the second part of this two-part course on Working with the RStudio IDE, you will learn how RS...

3 hours

404 Participants



### Statistical Thinking in Python (Part 1)

After all of the hard work of acquiring data and getting them into a form you can work with, you ...

3 hours

920 Participants



### Data Visualization in R

R supports four different graphics systems: base graphics, grid graphics, lattice graphics, and g...

4 hours

47 Participants



### Manipulating Time Series Data in R with xts & zoo

Time series are all around us, from server logs to high frequency financial data. Managing and ma...

4 hours

2,911 Participants



### Financial Trading in R

This course covers the basics on financial trading, and gives you an overview of how to use quant...

5 hours

3,222 Participants



### Working with Geospatial Data in R

Where should you buy a house to get the most value for your money? Your first step might be to ma...

4 hours

60 Participants

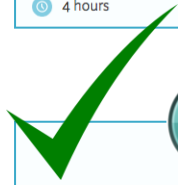


### Manipulating Time Series Data in R: Case Studies

This follow-up course on manipulating time series data in R does not cover new data manipulation ...

4 hours

27 Participants



### Introduction to Databases in Python

Whether you like it or not, databases are ubiquitous and, as a data scientist, you'll need to int...

4 hours

968 Participants



### Interactive Data Visualization with Bokeh

Bokeh is an interactive data visualization library for Python (and other languages!) that targets...

4 hours

1,001 Participants



### A Hands-on Introduction to Statistics with R

This selection of courses is designed to be a comprehensive yet friendly introduction to fundamen...



26 Hours

45,034 Participants

# Premium access till May 16<sup>th</sup> 2016

## Approved



Congratulations! Your DataCamp Classroom Account was approved. All invited students have full access until **16 May 2017**.



### Introduction to Machine Learning

This online machine learning course is perfect for those who have a solid basis in R and statisti...

6 hours 32,542 Participants



### Machine Learning Toolbox

Machine learning is the study and application of algorithms that learn from and make predictions ...

4 hours 3,358 Participants



### Intermediate R - Practice

This follow-up course on Intermediate R does not cover new programming concepts. Instead, you wil...

4 hours 9,223 Participants



### Importing & Cleaning Data in R: Case Studies

Running exciting analyses on interesting datasets is the dream of every data scientist. But first...


4 hours 1,875 Participants



### Data Visualization with ggplot2 (Part 3)

In this third ggplot2 course, we'll dive into some advanced topics including geoms commonly used ...

6 hours 350 Participants



### Joining Data in R with dplyr

This course builds on what you learned in Data Manipulation in R with dplyr by showing you how to...

4 hours 440 Participants



### Exploring Pitch Data with R

This case study in exploratory data analysis introduces a rich baseball dataset from Major League...

4 hours 4,810 Participants



### Text Mining: Bag of Words

It is estimated that over 70% of potentially useable business information is unstructured, often ...


4 hours 11,256 Participants



### Reporting with R Markdown

Learn how to write a data report quickly and effectively with the R Markdown package, and share y...


3 hours 29,919 Participants



### R for SAS, SPSS and STATA Users

If you already know SAS, SPSS or Stata, you don't need to spend time learning how to analyze data...


16 hours 28,336 Participants



### Statistical Modeling in R (Part 1)

Statistical Modeling in R is a multi-part course designed to get you up to speed with the most im...

4 hours 1,058 Participants



### Statistical Modeling in R (Part 2)

Statistical Modeling in R is a multi-part course designed to get you up to speed with the most im...

4 hours 308 Participants



# Premium access till May 16<sup>th</sup> 2016

## Approved

Congratulations! Your DataCamp Classroom Account was approved. All invited students have full access until **16 May 2017**.



### Writing Functions in R

Functions are a fundamental building block of the R language. You've probably used dozens (or eve...

4 hours

14,973 Participants



### Importing Data in Python (Part 1)

As a Data Scientist, on a daily basis you will need to clean data, wrangle and munge it, visualiz...

3 hours

4,245 Participants



### Python Data Science Toolbox (Part 1)

It's now time to push forward and develop your Python chops even further. There are lots and lots...

3 hours

2,990 Participants



### Data Manipulation in R with dplyr

In this interactive tutorial, you will learn how to perform sophisticated dplyr techniques to car...

4 hours

37,120 Participants



### Importing Data in R (Part 1)

Importing data into R to start your analyses: it should be the easiest step. Unfortunately, this ...

3 hours

2,175 Participants



### Importing Data in Python (Part 2)

As a Data Scientist, on a daily basis you will need to clean data, wrangle and munge it, visualiz...

2 hours

1,228 Participants



### Data Analysis in R, the data.table Way

The R data.table package is rapidly making its name as the number one choice for handling large d...

4 hours

35,422 Participants



### Data Visualization in R with ggvis

In our ggvis data visualization course, you will learn how to create static and interactive graph...

4 hours

34,360 Participants



### Importing Data in R (Part 2)

In this second course on importing data in R, you will take a deeper dive into the wide range of ...

3 hours

561 Participants



### Cleaning Data in R

It's commonly said that data scientists spend 80% of their time cleaning and manipulating data an...

4 hours

20,586 Participants



### Data Visualization with ggplot2 (Part 1)

The ability to produce meaningful and beautiful data visualizations is an essential part of your ...

5 hours

25,039 Participants



### Data Visualization with ggplot2 (Part 2)

This ggplot2 tutorial builds on your knowledge from the first course to produce meaningful explan...

5 hours

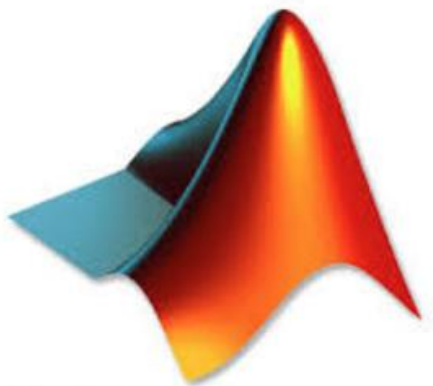
18,097 Participants



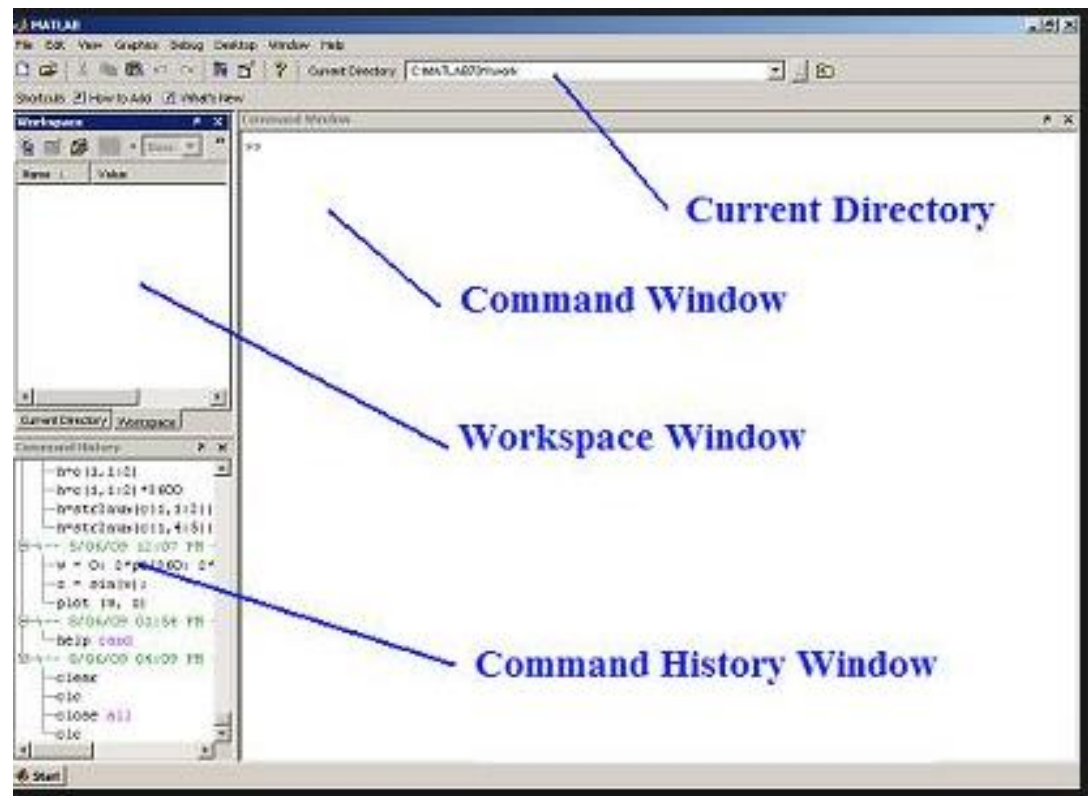
# Σε κάθε γλώσσα προγραμματισμού εμπεριέχεται:

- Το πρόγραμμα που περιέχει την γλώσσα (εκτελεί τις εντολές)
- Το περιβάλλον εργασίας (Editor, Command window, Παράθυρο να βλέπεις μεταβλητές και history of commands, help window etc)
- Μία τ-ε-ρ-ά-σ-τ-ι-α λίστα με βιβλιοθήκες και add-ons

Η Matlab είναι “all inclusive” αν και τα add-ons κοστίζουν extra  
Περιβάλλον εργασίας



**MATLAB**  
The Language of Technical Computing



# Πληροφορίες για εγκατάσταση Python



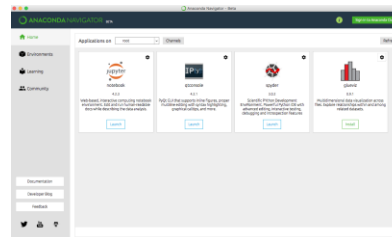
Python Terminal

~~<https://www.python.org/>~~

Mac Terminal

```
leonidas — python — 80x24
Leonidas-MacBook-Pro:~ leonidas$
Leonidas-MacBook-Pro:~ leonidas$
Leonidas-MacBook-Pro:~ leonidas$ python
Python 3.5.2 [Anaconda 4.2.0 (x86_64)] (default, Jul 2 2016, 17:52:12)
[GCC 4.2.1 Compatible Apple LLVM 4.2 (clang-425.0.28)] on darwin
Type "help", "copyright", "credits" or "license()" for more information.
>>> print("leonidas")
leonidas
>>>
```

Anaconda



Ipython



Spyder

Περιβάλλον  
εργασίας

Η απλά δείτε το DataCamp και τίποτα άλλο!

# Πληροφορίες για εγκατάσταση R



R Terminal

<https://www.r-project.org/>

R studio



Περιβάλλον  
εργασίας

Η απλά δείτε το DataCamp και τίποτα άλλο!

# Installing Python



## **STEP #1: Install Anaconda**

<https://www.continuum.io/downloads/>



## **STEP #2: From Anaconda use Spyder**



## **STEP #3: Complete assignments in DataCamp**

<https://www.datacamp.com/courses>

(web-interface / no need to download Python software)

# Installing R



## STEP #1: Install R

<https://www.r-project.org/>



## STEP #2: Download R Editor (skip 1st step that asks to install R)

<https://www.rstudio.com/>



## STEP #3: Receive invitation by email and then use Data-Camp to complete the assignments

<https://www.datacamp.com/courses>

(web-interface / no need to download R software)

