

py workflow

adam okulicz-kozaryn

`adam.okulicz.kozaryn@gmail.com`

this version: Tuesday 9th April, 2013 17:18

outline

difficult Python

tips

py

outline

difficult Python

tips

py

taking a step back

- ◇ we are going back to Python basics
- ◇ I wanted to skip much of the syntax, data types etc
- ◇ but it looks like it just created confusion

taking a step back

- ◇ we are going back to Python basics
- ◇ I wanted to skip much of the syntax, data types etc
- ◇ but it looks like it just created confusion

taking a step back

- ◇ we are going back to Python basics
- ◇ I wanted to skip much of the syntax, data types etc
- ◇ but it looks like it just created confusion

Python again

- ◇ looks like most of you cannot use Python yet
- ◇ let's cover it again...
- ◇ I'll be slower and give you tips...

Python again

- ◇ looks like most of you cannot use Python yet
- ◇ let's cover it again...
- ◇ I'll be slower and give you tips...

Python again

- ◇ looks like most of you cannot use Python yet
- ◇ let's cover it again...
- ◇ I'll be slower and give you tips...

why? again...

- ◇ again, it's worth the effort
- ◇ the tricky part is that Python requires more initial effort than qgis
- ◇ trust me, after awhile it's much much better
 - in fact, it will be easier than qgis
 - you'll make your own functions (def) and they will do exactly what you need in just one line
- ◇ and again per replication principle
 - this is the right way of doing things...

why? again...

- ◇ again, it's worth the effort
- ◇ the tricky part is that Python requires more initial effort than qgis
- ◇ trust me, after awhile it's much much better
 - in fact, it will be easier than qgis
 - you'll make your own functions (def) and they will do exactly what you need in just one line
- ◇ and again per replication principle
 - this is the right way of doing things...

why? again...

- ◇ again, it's worth the effort
- ◇ the tricky part is that Python requires more initial effort than qgis
- ◇ trust me, after awhile it's much much better
 - in fact, it will be easier than qgis
 - you'll make your own functions (def) and they will do exactly what you need in just one line
- ◇ and again per replication principle
 - this is the right way of doing things...

why? again...

- ◇ again, it's worth the effort
- ◇ the tricky part is that Python requires more initial effort than qgis
- ◇ trust me, after awhile it's much much better
 - in fact, it will be easier than qgis
 - you'll make your own functions (def) and they will do exactly what you need in just one line
- ◇ and again per replication principle
 - this is the right way of doing things...

why? again...

- ◇ again, it's worth the effort
- ◇ the tricky part is that Python requires more initial effort than qgis
- ◇ trust me, after awhile it's much much better
 - in fact, it will be easier than qgis
 - you'll make your own functions (def) and they will do exactly what you need in just one line
- ◇ and again per replication principle
 - this is the right way of doing things...

why? again...

- ◇ again, it's worth the effort
- ◇ the tricky part is that Python requires more initial effort than qgis
- ◇ trust me, after awhile it's much much better
 - in fact, it will be easier than qgis
 - you'll make your own functions (def) and they will do exactly what you need in just one line
- ◇ and again per replication principle
 - this is the right way of doing things...

why? again...

- ◇ again, it's worth the effort
- ◇ the tricky part is that Python requires more initial effort than qgis
- ◇ trust me, after awhile it's much much better
 - in fact, it will be easier than qgis
 - you'll make your own functions (def) and they will do exactly what you need in just one line
- ◇ and again per replication principle
 - this is the right way of doing things...

outline

difficult Python

tips

py

make comments

- ◇ i admit, i did not use enough comments (#)
- ◇ i added some more comments...and
- ◇ i will be commenting as we go through it
- ◇ important: comment, too
- you can rephrase my comments of course...
- ◇ then save the file
- so that next time when you go through it
- you'll know what is happening

make comments

- ◇ i admit, i did not use enough comments (#)
- ◇ i added some more comments...and
- ◇ i will be commenting as we go through it
- ◇ important: comment, too
- you can rephrase my comments of course...
- ◇ then save the file
- so that next time when you go through it
- you'll know what is happening

make comments

- ◇ i admit, i did not use enough comments (#)
- ◇ i added some more comments...and
- ◇ i will be commenting as we go through it
- ◇ important: comment, too
- you can rephrase my comments of course...
- ◇ then save the file
- so that next time when you go through it
- you'll know what is happening

make comments

- ◇ i admit, i did not use enough comments (#)
- ◇ i added some more comments...and
- ◇ i will be commenting as we go through it
- ◇ important: comment, too
- you can rephrase my comments of course...
- ◇ then save the file
- so that next time when you go through it
- you'll know what is happening

make comments

- ◇ i admit, i did not use enough comments (#)
- ◇ i added some more comments...and
- ◇ i will be commenting as we go through it
- ◇ important: comment, too
- you can rephrase my comments of course...
- ◇ then save the file
- so that next time when you go through it
- you'll know what is happening

make comments

- ◇ i admit, i did not use enough comments (#)
- ◇ i added some more comments...and
- ◇ i will be commenting as we go through it
- ◇ important: comment, too
- you can rephrase my comments of course...
- ◇ then save the file
- so that next time when you go through it
- you'll know what is happening

make comments

- ◇ i admit, i did not use enough comments (#)
- ◇ i added some more comments...and
- ◇ i will be commenting as we go through it
- ◇ important: comment, too
 - you can rephrase my comments of course...
- ◇ then save the file
 - so that next time when you go through it
 - you'll know what is happening

make comments

- ◇ i admit, i did not use enough comments (#)
- ◇ i added some more comments...and
- ◇ i will be commenting as we go through it
- ◇ important: comment, too
 - you can rephrase my comments of course...
- ◇ then save the file
 - so that next time when you go through it
 - you'll know what is happening

developing your own code

- ◇ everyone has different coding style
- ◇ during the class, but especially after the class:
- ◇ chop up my code and develop your own based on mine
- ◇ modify it as needed...
- ◇ and comment a lot...
- ◇ so that next time it is very easy to reuse it

developing your own code

- ◇ everyone has different coding style
- ◇ during the class, but especially after the class:
- ◇ chop up my code and develop your own based on mine
- ◇ modify it as needed...
- ◇ and comment a lot...
- ◇ so that next time it is very easy to reuse it

developing your own code

- ◇ everyone has different coding style
- ◇ during the class, but especially after the class:
- ◇ chop up my code and develop your own based on mine
- ◇ modify it as needed...
- ◇ and comment a lot...
- ◇ so that next time it is very easy to reuse it

developing your own code

- ◇ everyone has different coding style
- ◇ during the class, but especially after the class:
- ◇ chop up my code and develop your own based on mine
- ◇ modify it as needed...
- ◇ and comment a lot...
- ◇ so that next time it is very easy to reuse it

developing your own code

- ◇ everyone has different coding style
- ◇ during the class, but especially after the class:
- ◇ chop up my code and develop your own based on mine
- ◇ modify it as needed...
- ◇ and comment a lot...
- ◇ so that next time it is very easy to reuse it

developing your own code

- ◇ everyone has different coding style
- ◇ during the class, but especially after the class:
- ◇ chop up my code and develop your own based on mine
- ◇ modify it as needed...
- ◇ and comment a lot...
- ◇ so that next time it is very easy to reuse it

google errors

- ◇ Python gives useful errors
- ◇ by useful i mean that they tell you quite well what went wrong
- ◇ if you don't understand the error, copy and google it
- ◇ usually one of first few hits will explain it
- ◇ often times you'll get really good hints on SO (Stack Overflow)

google errors

- ◇ Python gives useful errors
- ◇ by useful i mean that they tell you quite well what went wrong
- ◇ if you don't understand the error, copy and google it
- ◇ usually one of first few hits will explain it
- ◇ often times you'll get really good hints on SO (Stack Overflow)

google errors

- ◇ Python gives useful errors
- ◇ by useful i mean that they tell you quite well what went wrong
- ◇ if you don't understand the error, copy and google it
- ◇ usually one of first few hits will explain it
- ◇ often times you'll get really good hints on SO (Stack Overflow)

google errors

- ◇ Python gives useful errors
- ◇ by useful i mean that they tell you quite well what went wrong
- ◇ if you don't understand the error, copy and google it
- ◇ usually one of first few hits will explain it
- ◇ often times you'll get really good hints on SO (Stack Overflow)

google errors

- ◇ Python gives useful errors
- ◇ by useful i mean that they tell you quite well what went wrong
- ◇ if you don't understand the error, copy and google it
- ◇ usually one of first few hits will explain it
- ◇ often times you'll get really good hints on SO (Stack Overflow)

make yourself comfortable

- ◇ I just use the simplest setup
 - copying from text editor into terminal/shell
- ◇ but experiment with some of the specialized tools
- ◇ on apps and in the lab there are at least two:
 - “IDLE” and “Dr Python”
- ◇ I've heard many good things about IPython...

make yourself comfortable

- ◇ I just use the simplest setup
 - copying from text editor into terminal/shell
- ◇ but experiment with some of the specialized tools
- ◇ on apps and in the lab there are at least two:
 - “IDLE” and “Dr Python”
- ◇ I’ve heard many good things about IPython...

make yourself comfortable

- ◇ I just use the simplest setup
 - copying from text editor into terminal/shell
- ◇ but experiment with some of the specialized tools
- ◇ on apps and in the lab there are at least two:
 - “IDLE” and “Dr Python”
- ◇ I’ve heard many good things about IPython...

make yourself comfortable

- ◇ I just use the simplest setup
 - copying from text editor into terminal/shell
- ◇ but experiment with some of the specialized tools
- ◇ on apps and in the lab there are at least two:
 - “IDLE” and “Dr Python”
- ◇ I've heard many good things about IPython...

make yourself comfortable

- ◇ I just use the simplest setup
 - copying from text editor into terminal/shell
- ◇ but experiment with some of the specialized tools
- ◇ on apps and in the lab there are at least two:
 - “IDLE” and “Dr Python”
- ◇ I've heard many good things about IPython...

make yourself comfortable

- ◇ I just use the simplest setup
 - copying from text editor into terminal/shell
- ◇ but experiment with some of the specialized tools
- ◇ on apps and in the lab there are at least two:
 - “IDLE” and “Dr Python”
- ◇ I've heard many good things about IPython...

outline

difficult Python

tips

py

ok, let's run it

- ◇ again, make comments
- ◇ slow me down and remind to make comments myself if I forget
- ◇ let's rerun py files in this order
- ◇ py_bas.py
- ◇ googlemaps.py
- ◇ matplotlib_basemap.py
- ◇ goog_places_api.py

ok, let's run it

- ◇ again, make comments
- ◇ slow me down and remind to make comments myself if I forget
- ◇ let's rerun py files in this order
- ◇ py_bas.py
- ◇ googlemaps.py
- ◇ matplotlib_basemap.py
- ◇ goog_places_api.py

ok, let's run it

- ◇ again, make comments
- ◇ slow me down and remind to make comments myself if I forget
- ◇ let's rerun py files in this order
 - ◇ py_bas.py
 - ◇ googlemaps.py
 - ◇ matplotlib_basemap.py
 - ◇ goog_places_api.py

ok, let's run it

- ◇ again, make comments
- ◇ slow me down and remind to make comments myself if I forget
- ◇ let's rerun py files in this order
- ◇ py_bas.py
- ◇ googlemaps.py
- ◇ matplotlib_basemap.py
- ◇ goog_places_api.py

ok, let's run it

- ◇ again, make comments
- ◇ slow me down and remind to make comments myself if I forget
- ◇ let's rerun py files in this order
- ◇ py_bas.py
- ◇ googlemaps.py
- ◇ matplotlib_basemap.py
- ◇ goog_places_api.py

ok, let's run it

- ◇ again, make comments
- ◇ slow me down and remind to make comments myself if I forget
- ◇ let's rerun py files in this order
- ◇ py_bas.py
- ◇ googlemaps.py
- ◇ matplotlib_basemap.py
- ◇ goog_places_api.py

ok, let's run it

- ◇ again, make comments
- ◇ slow me down and remind to make comments myself if I forget
- ◇ let's rerun py files in this order
- ◇ py_bas.py
- ◇ googlemaps.py
- ◇ matplotlib_basemap.py
- ◇ goog_places_api.py