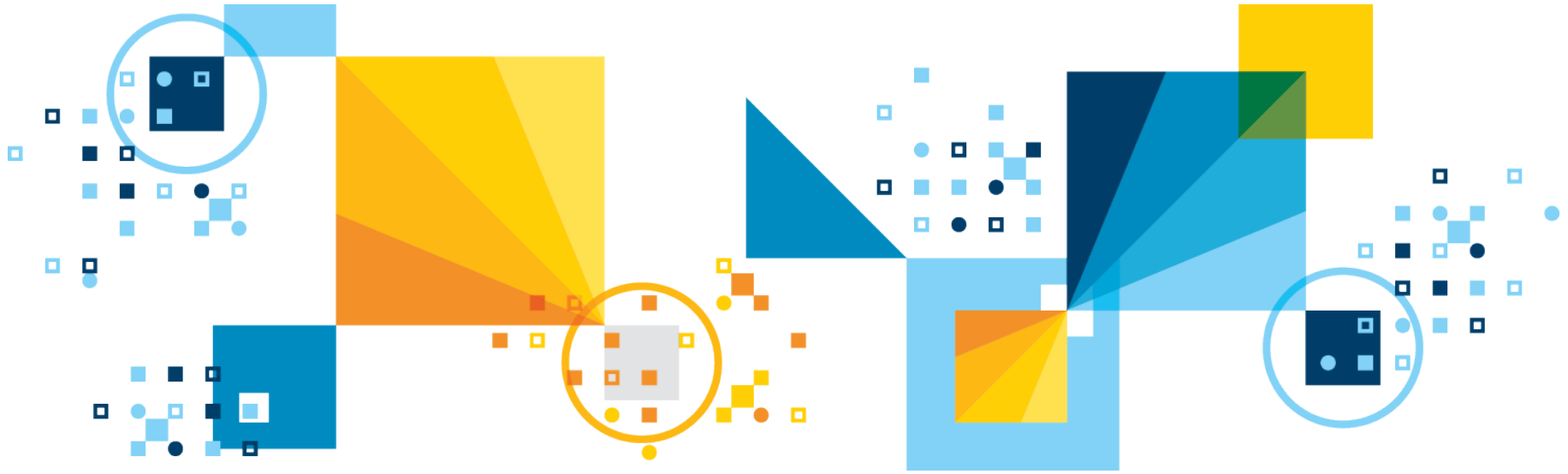
DSX Desktop



Introducing the Data Science Experience

Learn

Built-in learning to get started or go the distance with advanced tutorials

Create

The best of open source and IBM value-add to create state-of-the-art data products

Collaborate

Community and social features that provide meaningful collaboration

External URL: http://datascience.ibm.com
Internal ZACS Page: https://ibm.biz/BdrDv5

Data Science Experience - in 3 flavors

- **datascience.ibm.com in the Bluemix Public Cloud**
  - Easy to get started with a *Bluemix* account – no installation needed. Pay as you go for the resources you use. Work with IBM Bluemix Spark-as-a-service for compute and use Bluemix Object store for storage
  - Get access to RStudio, Jupyter notebooks and collaborate in the cloud
  - Integrate with data sources in Bluemix and organize data assets into a Catalog (Beta)
- **DSX Desktop (Beta)**
  - Easy install *on your laptop*. Restricted to the horse power of your laptop (cannot be scaled)
  - Get access to RStudio, Jupyter notebooks and work with a small, local single Spark worker.
  - Access csv files for Data Frames in your Jupyter notebooks and R Studio
- **DSX Local (Private Cloud)**
  - Scalable cluster deployed in your own data center on-prem *behind your firewall* or in a private cloud.
  - Manage user access (LDAP) and work with RStudio, Jupyter notebooks and collaborate with other users in your enterprise. Includes embedded object store for csv files and Connections capability to work with on-prem data sources.
  - Leverage the out-of-the-box Spark cluster and grow compute resources as needed.

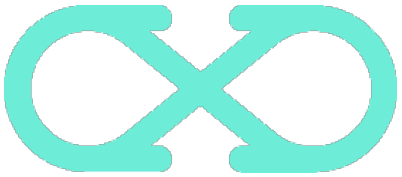
What is DSX Desktop?

- **DSX Desktop is a desktop platform which provides simple access to complex analytics**
- **DSX Desktop is similar to the public and private cloud versions of DSX**
  - It provides access to commonly used tools for data scientists such as
    - Jupyter notebooks
    - RStudio
  - It includes numerous analytics libraries and functions
- **DSX Desktop runs on the user's laptop**
  - Support for Windows, Mac, and Linux
- **DSX Desktop comes with all the software it needs to run**

IBM Data Science Experience

ALL YOUR TOOLS IN ONE PLACE

IBM Data Science Experience is an environment that brings together everything that a Data Scientist needs. It includes the most popular Open Source tools and IBM unique value-add functionalities with community and social features, integrated as a first class citizen to make Data Scientists more successful.



datascience.ibm.com

Core Attributes of the Data Science Experience Desktop

IBM Data Science Experience

Community

- Find sample notebooks

Open Source

- Code in Scala/Python/R/SQL
- Jupyter Notebooks
- RStudio IDE and Shiny
- Apache Spark
- Your favorite libraries

IBM Added Value

- Prescriptive Analytics – Docplex

Powered by IBM **Watson Data Platform**

Integrated Jupyter Notebooks for interactive and collaborative development - seamless execution on Spark

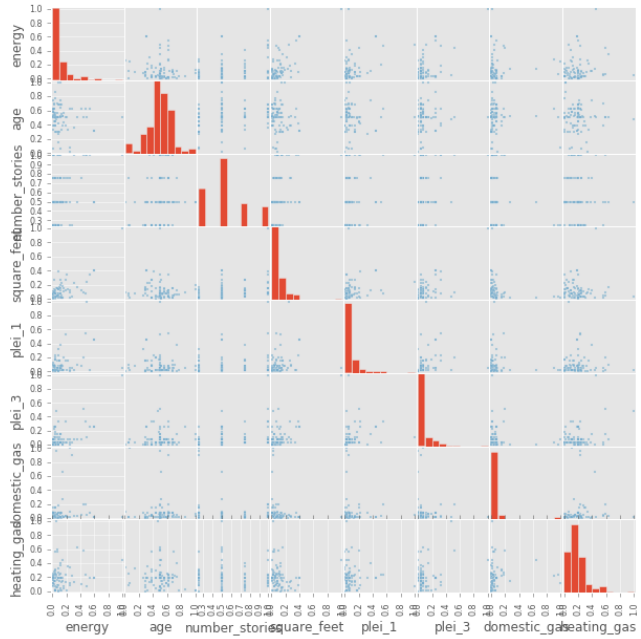
Notebooks > Spark Summit West - BlocPower Demo

File Edit View Insert Cell Kernel Help | Python 2

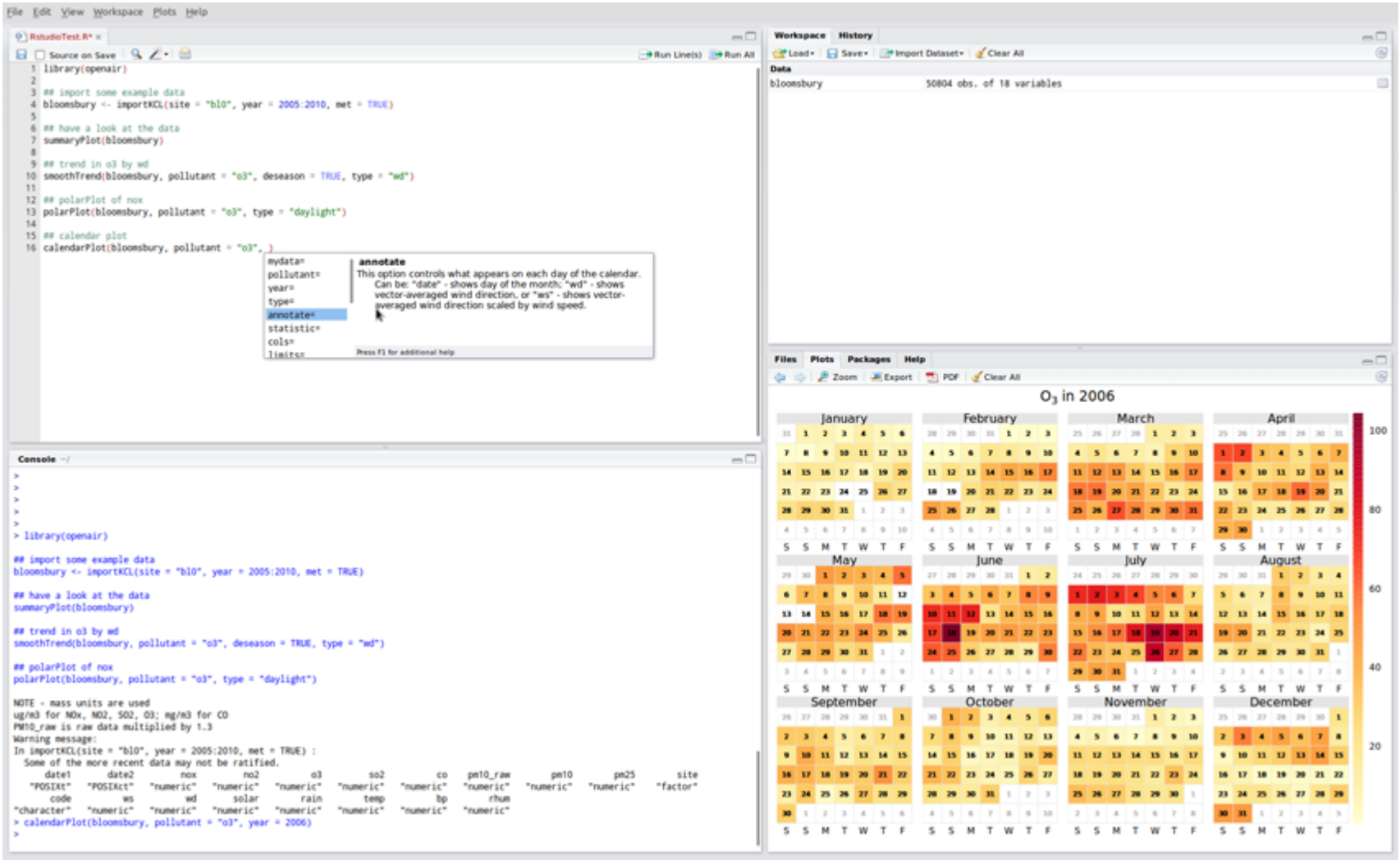
Format Markdown Cell Toolbar None

Explore the correlations

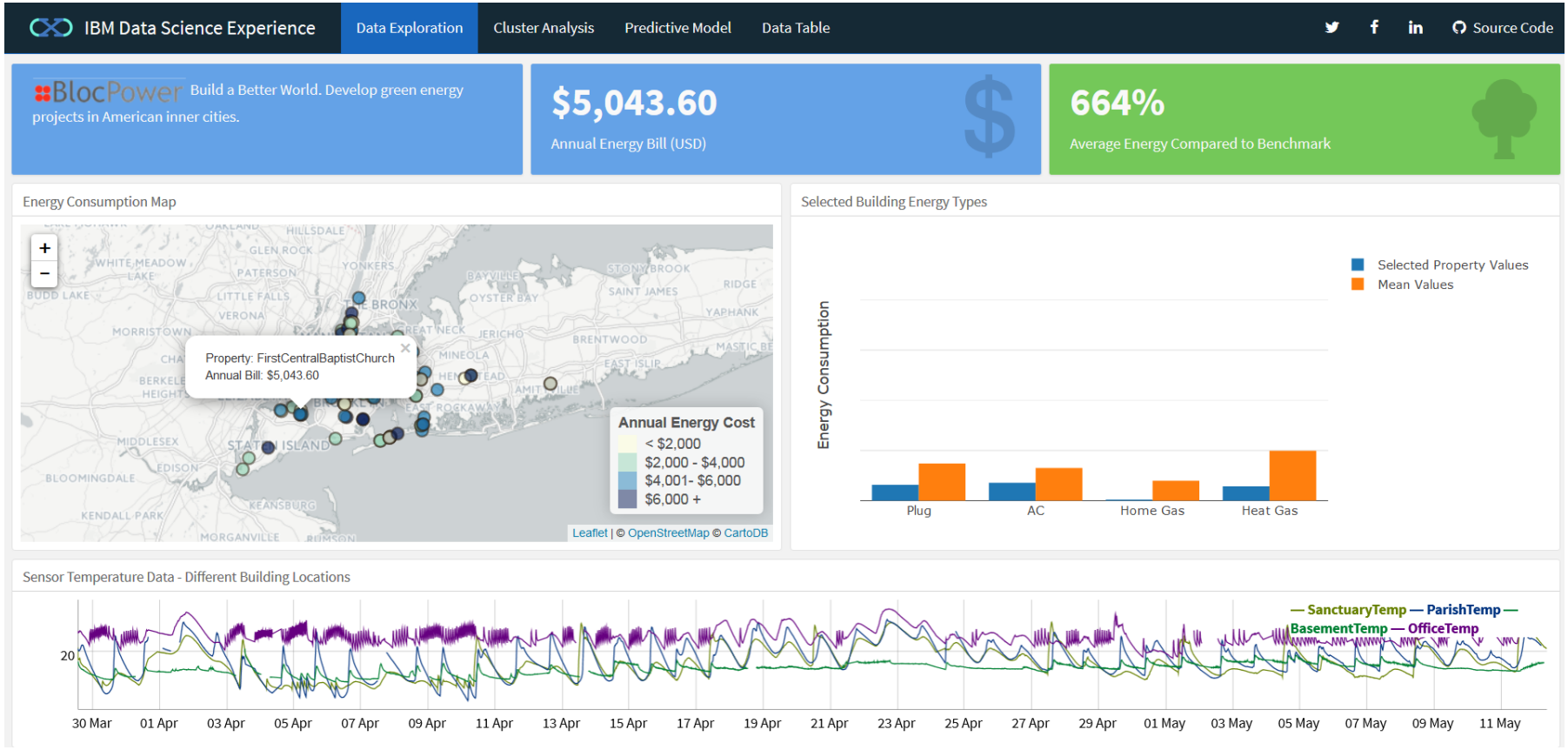
```
In [9]: import matplotlib.pyplot as plt
        %matplotlib inline
        plt.style.use('ggplot')
        ff = pd.tools.plotting.scatter_matrix(dfScaled, diagonal='hist',figsize=(10,10))
```



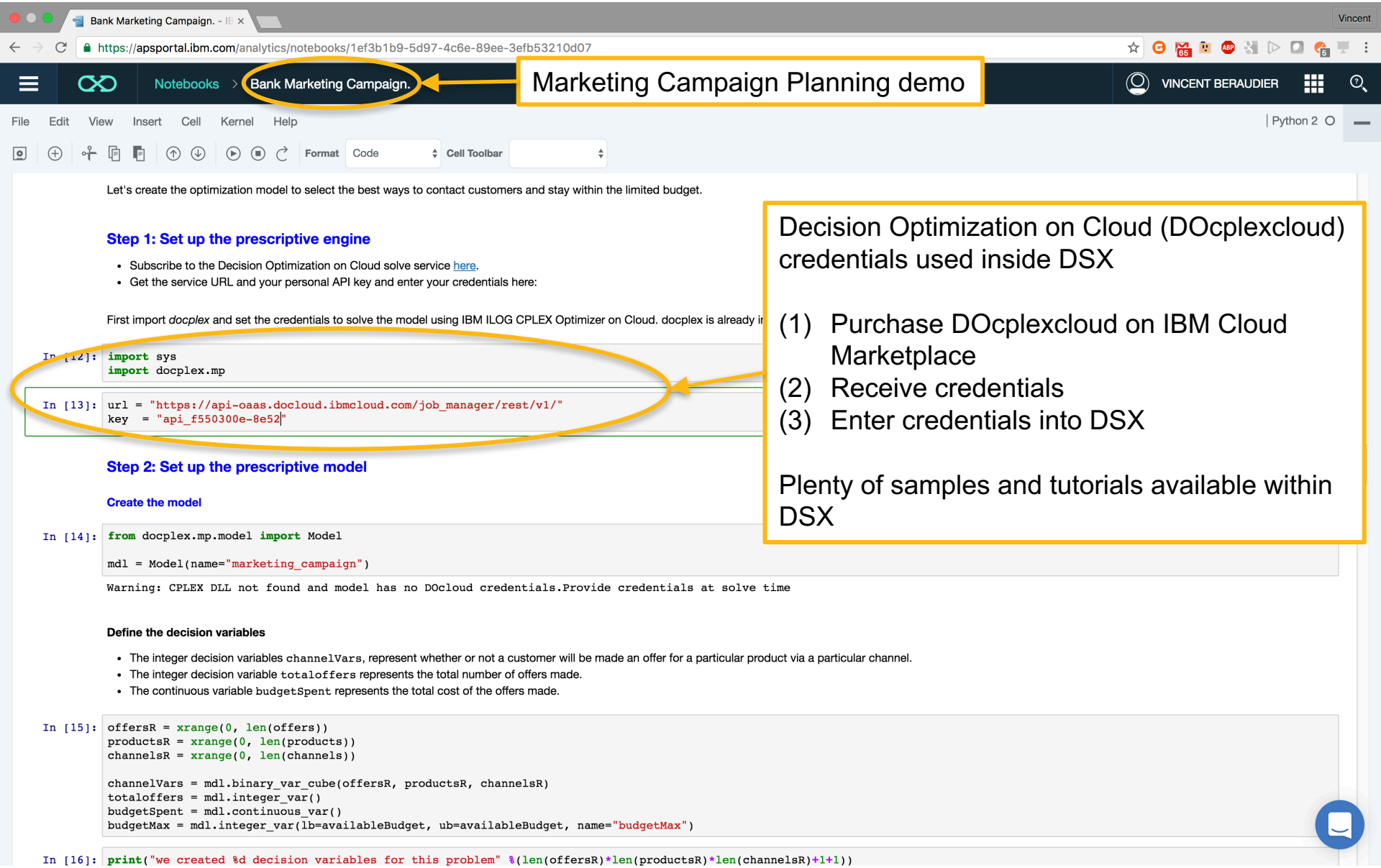
DSX has RStudio built into the experience thanks to our strategic partnership



With RStudio you can create Shiny web applications to make your analysis accessible to the business



IBM Decision Optimization for DSX via API calls to DOcplex



Decision Optimization on Cloud (DOcplexcloud) credentials used inside DSX

(1) Purchase DOcplexcloud on IBM Cloud Marketplace
(2) Receive credentials
(3) Enter credentials into DSX

Plenty of samples and tutorials available within DSX

thank you!