Installing and initial setup (Microsoft Windows, language-independent)

Following this guide: <https://docs.mongodb.com/manual/tutorial/install-mongodb-on-windows/>

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| Step | Instructions | Command |
| 1: Install MongoDB | Go to <https://www.mongodb.com/download-center#community> and download the current release of MongoDB (I used version “Windows Server 2008 R2 64-bit and later, with SSL support x64”)  Run the MSI installer and follow the instructions. |  |
| 2: Set up the MongoDB environment | To create the folder in which MongoDB will store files, open a command prompt and enter the command on the right. | md \data\db |
| 3: Start MongoDB |  | "C:\Program Files\MongoDB\Server\3.2\bin\mongod.exe" |
| 4: Connect to MongoDB | Open another command prompt | "C:\Program Files\MongoDB\Server\3.2\bin\mongo.exe” |

Introduction to MongoDB (OS-independent, language-independent)

Following this guide: <https://docs.mongodb.com/getting-started/python/introduction/>

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| Topic | Text | Example |
| 1: Documents | “A record in MongoDB is a **document**, which is a data structure composed of field and value pairs. MongoDB documents are similar to **JSON** objects. The values of fields may include other documents, arrays, and arrays of documents.” | {  "\_id" : ObjectId("54c955492b7c8eb21818bd09"),  "address" : {  "street" : "2 Avenue",  "zipcode" : "10075",  "building" : "1480",  "coord" : [ -73.9557413, 40.7720266 ]  },  "borough" : "Manhattan",  "cuisine" : "Italian",  "grades" : [  {  "date" : ISODate("2014-10-01T00:00:00Z"),  "grade" : "A",  "score" : 11  },  {  "date" : ISODate("2014-01-16T00:00:00Z"),  "grade" : "B",  "score" : 17  }  ],  "name" : "Vella",  "restaurant\_id" : "41704620"  } |
| 2: Collections | “MongoDB stores documents in **collections**. Collections are analogous to **tables** in relational databases. Unlike a table, however, a **collection does not require its documents to have the same schema**.  In MongoDB, documents stored in a collection must have a unique \_id field that acts as a **primary key**” |  |

Importing data (Windows, language independent)

Following this guide: <https://docs.mongodb.com/getting-started/python/import-data/>

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| Step | Instructions |  |
| 1: Retrieve sample dataset | Retrieve the dataset from <https://raw.githubusercontent.com/mongodb/docs-assets/primer-dataset/primer-dataset.json> and save to a file named primer-dataset.json.  **Alternatively**, a version of this file should be stored in the same folder as this guide. |  |
| 2: Import data into collection | [Since the reference guide uses Linux, this guide diverges a bit here]  Open yet another command prompt **as an administrator** (this should be your third command prompt). Navigate to C:\Program Files\MongoDB\Server\3.2\bin and enter the command shown on the right, substituting the path to the directory where you have stored primer-dataset.json. | mongoimport --db test --collection restaurants --drop --file "C:\Users\rbl46509\Documents\Portfolio Visualisation\Documentation\Using MongoDB\primer-dataset.json" |

Installing PyMongo (Windows, Python)

PyMongo is a Python library containing tools for working with MongoDB.

Following this guide: <https://docs.mongodb.com/getting-started/python/client/>

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|  | Instruction |  |
| 1: Install PyMongo | Install pymongo either via pip or from <https://pypi.python.org/pypi/pymongo/> | pip install pymongo |
| 2: Import PyMongo | Open a Python notebook |  |
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