Interactive workshop

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Plan for the workshop

• Workshop materials are linked from: https://mimic.physionet.org/events/bhibsn-challenge/

• Introduction to Jupyter Notebooks

• Create connection to the MIMIC-III database

• Carry out a simple analysis of the weekend effect
Install Jupyter

• Jupyter is software for creating executable notebooks.

• Navigate to: https://mimic.physionet.org/events/bhibsn-challenge/

• Follow the link to the example code repository.

• Find and follow the installation instructions.

• Green = done. Red = help!
Jupyter

Hello world

In [ ]:
Connect to MIMIC-III

```python
import psycopg2
import pandas as pd

user = 'team_x'  # replace x with any letter!
password = 'challenge_x'  # replace x with any letter!
host = 'hst953.csail.mit.edu'
dbname = 'mimic'
schema = 'mimiciii_demo'

con = psycopg2.connect(dbname=dbname, user=user, host=host, password=password)

cur = con.cursor()
cur.execute('SET search_path to {};'.format(schema))

query = ""
""""""SELECT*
FROM icustays
LIMIT 10;
""""

data = pd.read_sql_query(query, con)
```
Continue with the example

Python demo for the 2018 BHI & BSN Data Challenge

This notebook provides a simple introduction to analysing the MIMIC-III database. It was created as a demonstrator for the 2018 BHI & BSN Data Challenge, which explores the following question:

Are patients admitted to the intensive care unit (ICU) on a weekend more likely to die in the hospital than those admitted on a weekday?

We have provided an example slide template for final presentations (slide-template.pptx) at https://github.com/MIT-LCP/bhi-bsn-challenge. There is no obligation to use it!

• **Green** = done. **Red** = help!