COMPUTER SCIENCE

LESSON 8+9, TUESDAY OCT 3RD AND THURSDAY OCT 5TH

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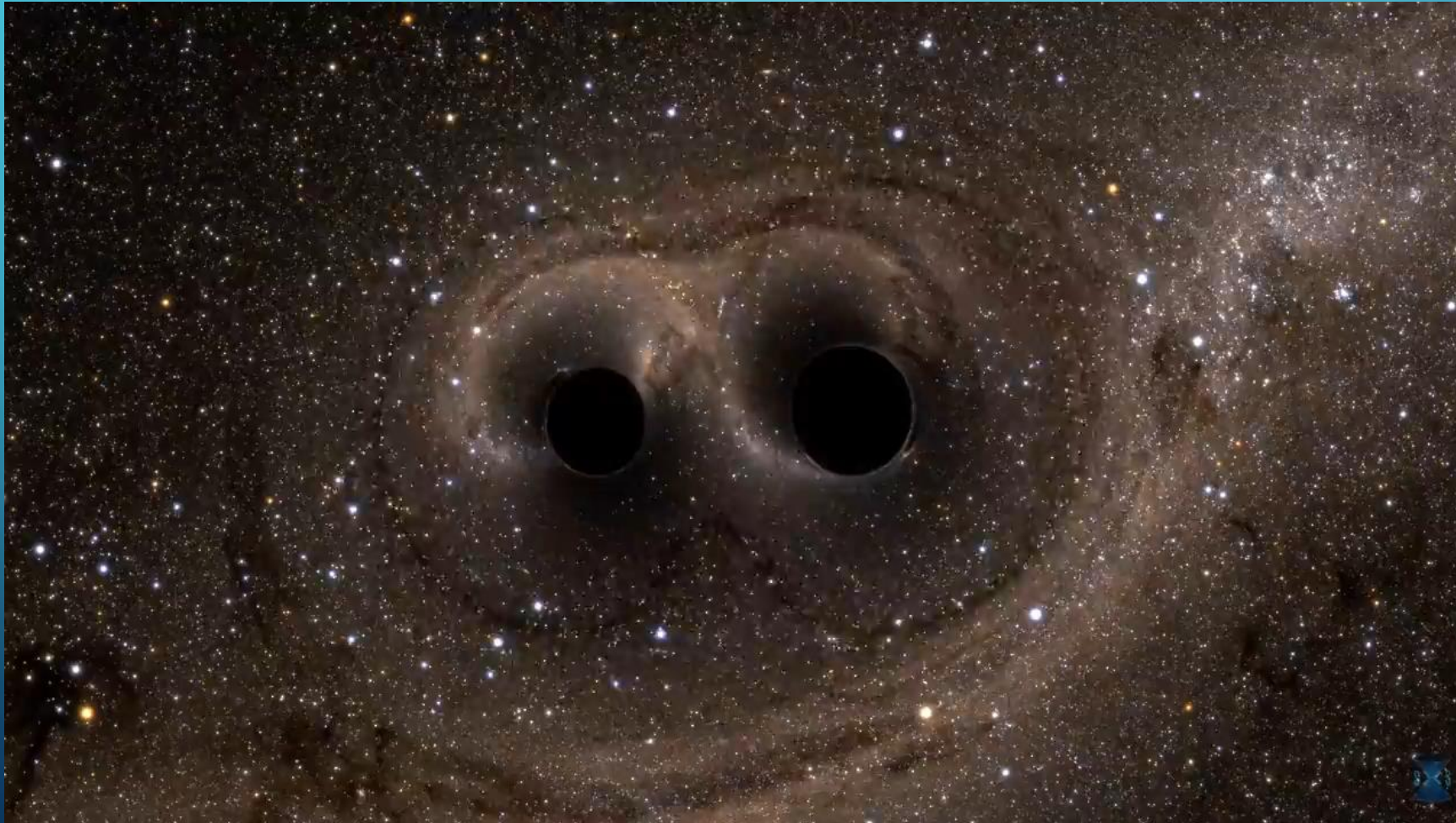
WOODFORD@CITA.UTORONTO.CA

MACHINE LEARNING AND THE MARKET FOR INTELLEGENCE CONFERENCE

- Oct 26th (Thursday), 8:15am-6pm

- Lunch provided

- U of T Rotman School of Management (105 St George St, M5S 3E6)

- FREE – this might be the only time you'll get this deal on ANY conference.
  - But of course, not quite – you'll need to submit a 1 page essay by Nov 1st tat describes the single most interesting, surprising, or inspiring thing you learned from attending the conference

- Decide by Thursday Oct 4th – inform Ms Woodford or Ms Lefoilii by end of day

THIS WEEK IN CS AND STEM

- 2017 Nobel Prize in Physics announced:
  - https://www.nobelprize.org/nobel_prizes/physics/laureates/2017/press.html

RECAP OF LAST WEEK

- While loops

- Lists

- Open Lesson8_recap.ipynb

CONTROL FLOW

- You have different operations you need to do, but it depends on the type of input you get.

- Maybe you have 2 equations for a temperature function: one equation for temperatures over 20 degC and one for temperatures under 20 degC. How would you account for this situation?

IF, ELIF, ELSE

- 3 statements that can be combined.
  - if (statement):
  - elif (statement):
  - else:

- Note that elif can be used more than once, and that each block must be indented after the control flow statement

FOR STATEMENTS

- Similar to while loops, but will run over a list or array until the end of said list or array instead of depending on a condition or Boolean.

- Structure:

    for idx in range(a,b):

        (expressions)

CONTROL FLOW: SKIPPING A SECTION, BREAKING OR CONTINUING AN ITERATION

- What if, for a particular condition, you don't want to do anything? Or you want to stop the script completely?

    - Break: break out of the most interior repeating loop

    - Pass: no action. Used when something is required syntactically, but just a filler

    - Continue: continue with the next iteration of the most interior repeating loop

ASSIGNMENT #3

- Code

- Complete the notebook "Assignment3.ipynb".

- Due via email submission to woodford@cita.utoronto.ca on Oct 8th by 11:59pm. Note that I will not be available to answer emails on this day, so please try and ask questions beforehand.