Lecture 12, September 21

Conditional Statements and Iteration

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Announcement

- **Project 1** will be released today in lab!
random selection

`np.random.choice`

- Selects at random
- with replacement
- from an array
- a specified number of times

`np.random.choice(array_name, sample_size)`

(Demo)
George Boole

The Laws of Thought
(1854)
Boolean

- Type
- “yes/no”, “on/off”
- True, False
- 1, 0

Often the result of a “comparison”.

(Demo)
Conditional Statement

if <if expression>:
    <if body>
elif <elif expression 0>:
    <elif body 0>
elif <elif expression 1>:
    <elif body 1>
...
else:
    <else body>
for Statement ("loop")

for item_name in sequence:
    body

For example, `np.arange(5)`

(Demo)
Caution ...