Structured vs Unstructured Data

Structured Data

Can be organized into a table format?

Yes

Structured Data

No

Unstructured Data

Different Types of Variables

Variable Types

Categorical

ordered (ordinal)

non-ordered (nominal)

Quantitative (numeric)

continuous

discrete


Source: chibird.com
Practice: Identify the type of data

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<th>D</th>
<th>E</th>
<th>F</th>
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    "name": "Harry Potter",
    "age": 11
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  {  
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    "name": "Ron Weasley",
    "age": 11
  }
]  
}

Practice: Identify the type of the variable of interest.

20 runners run a mile as fast as they can. Their times are recorded.
Non-ordered Categorical, Ordered Categorical, Discrete, or Continuous (circle one)

50 Students are asked what their major is.
Non-ordered Categorical, Ordered Categorical, Discrete, or Continuous (circle one)

100 Married Couples are asked how many children they have.
Non-ordered Categorical, Ordered Categorical, Discrete, or Continuous (circle one)

20 runners are asked to run a mile as fast as they can. Next to each runner’s name, the coach records “yes” or “no” to indicate whether or not they broke the 5-minute mark.
Non-ordered Categorical, Ordered Categorical, Discrete, or Continuous (circle one)

Judges score musicians across a number of different criteria using four choices: “superior,” “excellent,” “good,” or “needs work.”
Non-ordered Categorical, Ordered Categorical, Discrete, or Continuous (circle one)

To-do:
- Finish Lab 1, commit and push the lab using git commands!
- Log in to PrairieLearn using your NetID login and add “STAT/CS/IS 107” to your course list.