# Mother Goose's Variable Types

# Quantitative

- Data as numbers

- AKA Continuous
- AKA Numeric

# Continuous

- A number with decimal places

**1.7, 2.4, 3.9**

# Discrete

- A number without decimal places

- Whole number

**1, 2, 4**

# Qualitative

- Data as words

- AKA string
- AKA character

Jack be Nimble
Jack be Quick
Jack Jumped over the Candlestick

# Categorical

- Type of qualitative data

- Data that has specific groups and limited options

**Jack Descriptors:**
- **Nimble**
- **Quick**
- **Jumping**

# Ordinal

- Categorical data that is ordered

- Ex. Ranked from best-worst

**Nursery Rhyme Ranking:**
1. Little Bo Peep
2. Peter Piper
3. Little Boy Blue

# Examples

# The Premise

- Dataset filled with nursery rhyme variables

- For each example, you will answer what kind of variable you have.

# The color of Mary, Mary's cockleshells:

- **Qualitative, Categorical**

# The Number of Peppers Peter Piper Picked

• **Quantitative, Discrete**



Peter Piper picked a peck of pickled peppers;
A peck of pickled peppers Peter Piper picked;

If Peter Piper picked a peck of pickled peppers,
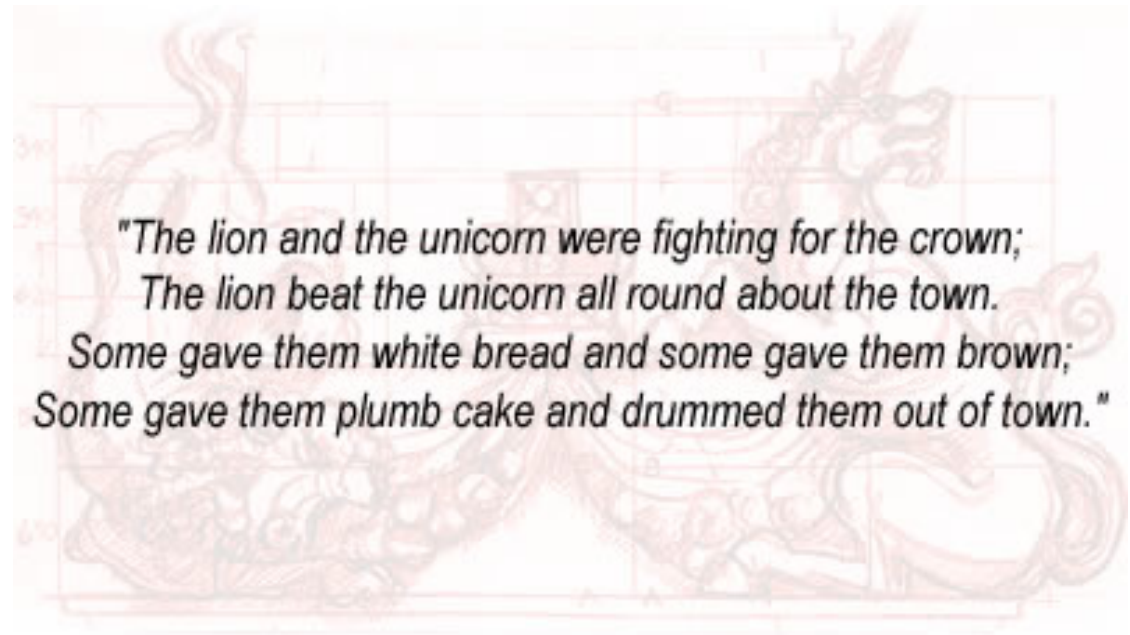Where's the peck of pickled peppers Peter Piper picked?

# The Length of the Waggly Tail for the Puppy in the Window.

- **Quantitative, Continuous**

# The Text of the Lion and the Unicorn

- **Qualitative**



"The lion and the unicorn were fighting for the crown;
The lion beat the unicorn all round about the town.
Some gave them white bread and some gave them brown;
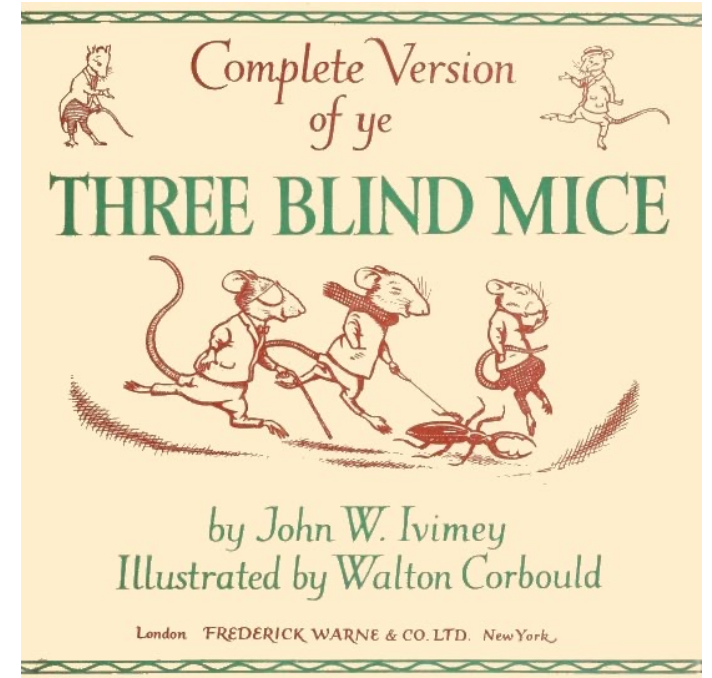Some gave them plumb cake and drummed them out of town."

# The Number of Sheep Little Bo Peep Lost

- **Quantitative, Discrete**

# Rankings of the Three Blind Mice from Best to Worst

- **Qualitative, Categorical, Ordinal**

# The Types of Things Jack Sprat and his Wife Could Eat

- **Qualitative, Categorical**



Jack Sprat could eat no fat.
His wife could eat no lean;
So 'twixt them both they cleared the cloth.
And licked the platter clean.

# Questions?