Carroll Diagrams

A Carroll Diagram compares items based on 2 properties that each one either has or does not have

Carroll Diagrams are a great way to start exploring properties of sets.

Take the set of apples. There are hundreds of properties that most or all apples have.
Here are a few:

- Round
- Red
- Peelable
- From a tree
- Containing seeds

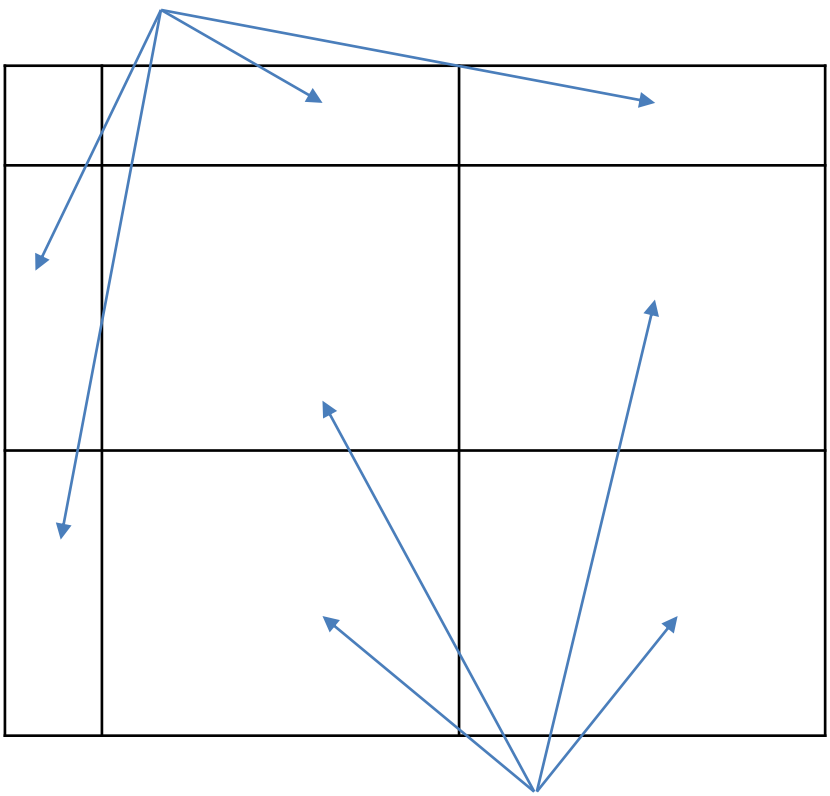
There are still more properties that apples do not have:

- Language
- Wheels
- Fit in your ear
- Lighter than air
- Keep the doctor away

Carroll Diagrams

Carroll Diagrams were invented by **Lewis Carroll**, the author of *Alice in Wonderland*. They are used to sort items into groups and work like this:

Categories
These are 2 properties that the items will either have or not have



Quadrants
These are where the items that you want to sort go

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Carroll Diagrams

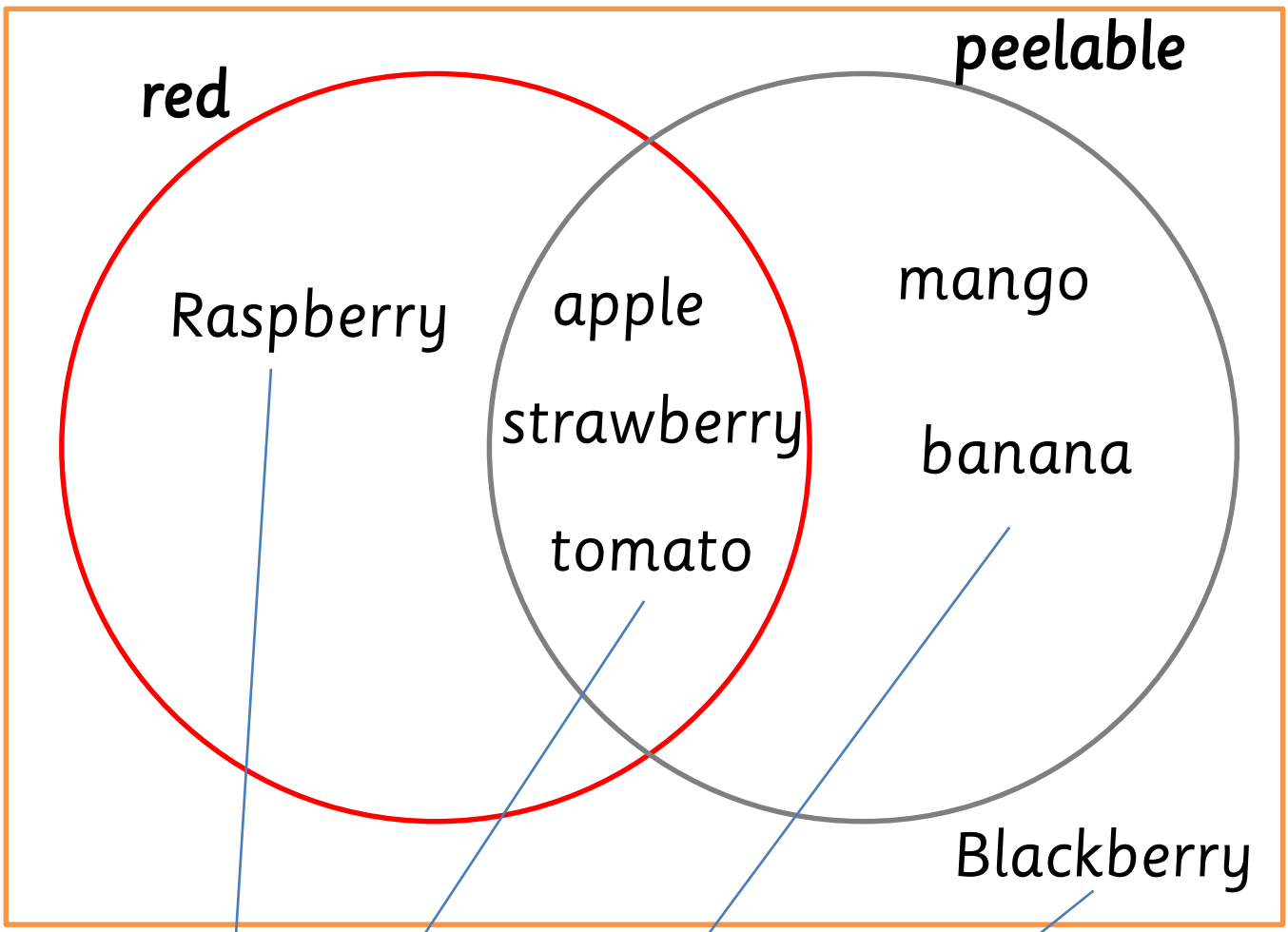
	red	not red
peelable		
No peel		

Therefore apples could go in any of the cells in a Carroll Diagram depending on the categories that we chose for it.

Which categories could put the apple in this quadrant?

Carroll Diagrams vs Venn Diagrams

A 2 circle Venn diagram is much like a Carroll Diagram



	red	not red
peelable		
No peel		

Carroll Diagrams

Here is a list of shapes:

- Circle
- Square
- Triangle
- Pentagon
- Parallelogram
- Trapezium
- Kite
- Compound rectangle
- Ellipse
- Cylinder

Try coming up with your own lists!

What categories could you use to make sure every quadrant had at least one item

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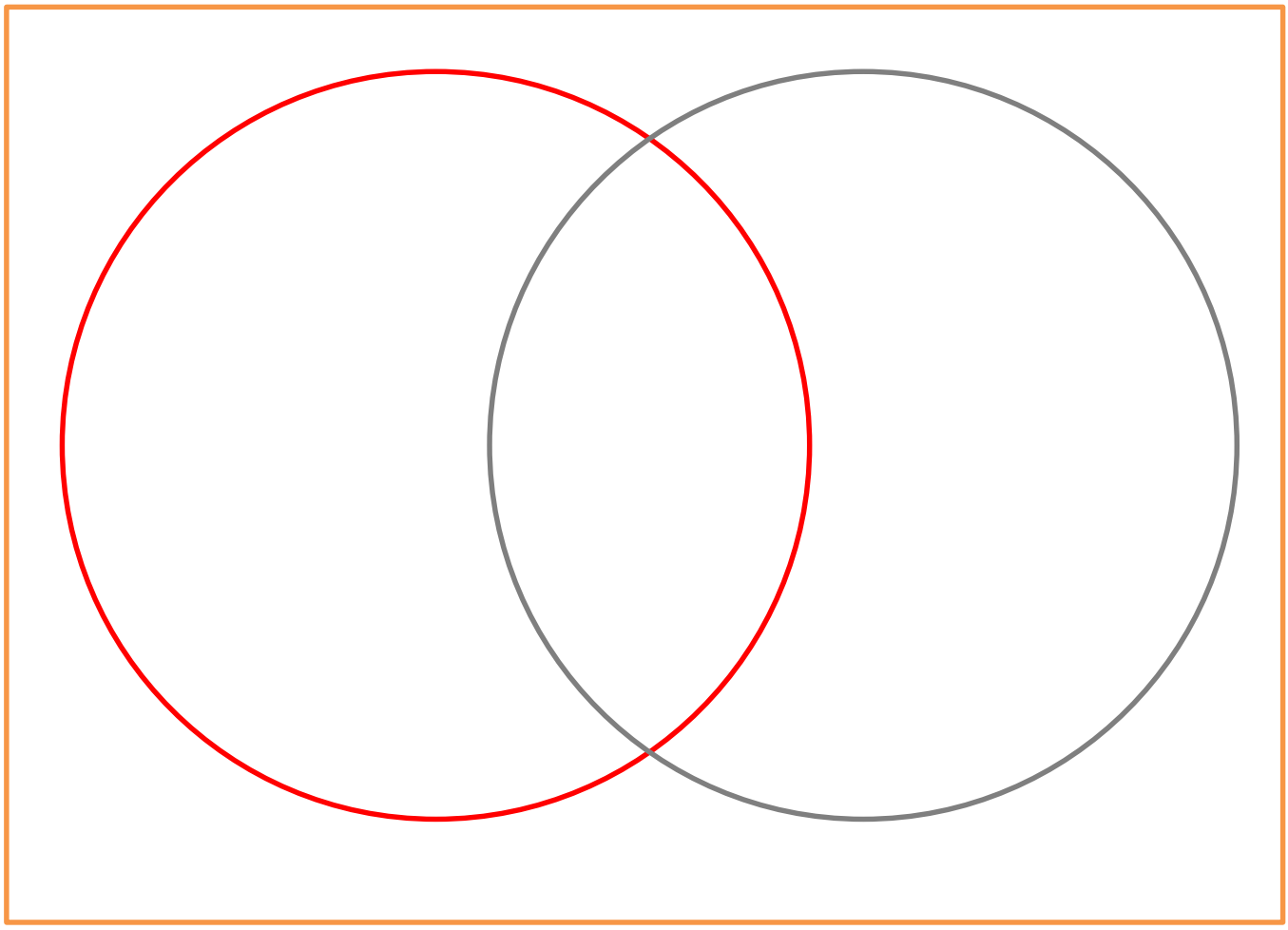
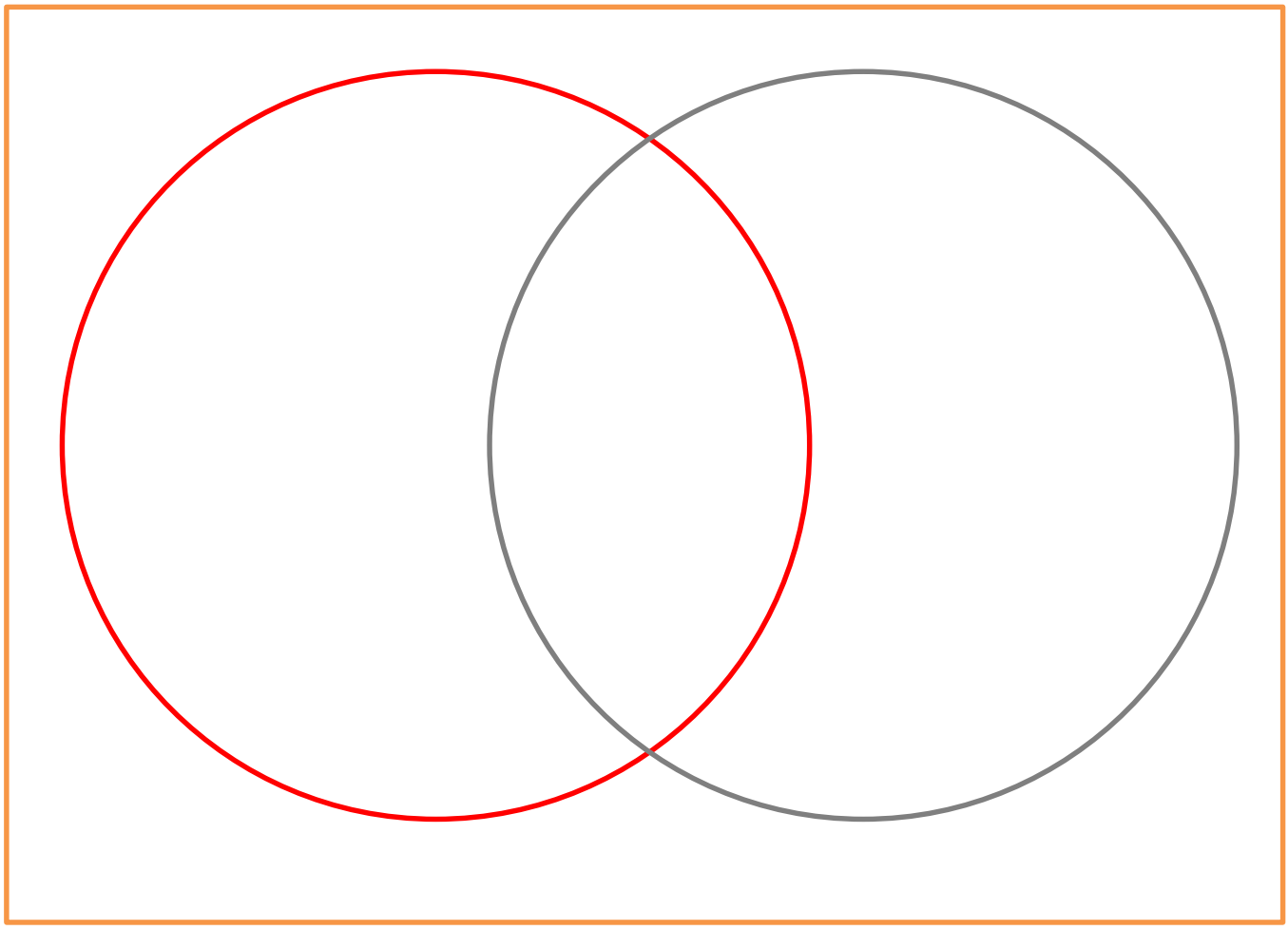
Carroll Diagrams

Here is a list of countries:

- Peru
- Zimbabwe
- Canada
- Ghana
- Cuba
- Austria
- Laos
- Indonesia
- Finland
- New Zealand

Example Categories

- Hot
- Southern Hemisphere
- Olympic medals
- Population over 10 million

What categories could you use to make sure every quadrant has a different number of countries?

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