Summary

The Piechart / Donut Chart procedure plots a column of counts or frequencies using slices of a pie or sections of a donut. If desired, a selected slice may be offset from the rest of the pie or donut.

Sample StatFolio: piechart.sgp

Sample Data:

The file election.sgp contains a typical set of data for this procedure.

<table>
<thead>
<tr>
<th>Candidate</th>
<th>Respondents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bush</td>
<td>1455</td>
</tr>
<tr>
<td>Kerry</td>
<td>1356</td>
</tr>
<tr>
<td>Undecided</td>
<td>207</td>
</tr>
</tbody>
</table>

The above data shows the results of a poll of $n = 3,018$ likely voters prior to the 2004 U.S. presidential election. The data will be represented by
\[ f_j = \text{frequency corresponding to row } j, \quad (1) \]

where \( j = 1, 2, \ldots k \).

**Data Input**

The data input dialog box specifies the column containing the data to be plotted.

- **Counts**: numeric column with the data to be plotted.
- **Labels**: optional column with labels for each slice.
- **Select**: subset selection.

**Analysis Summary**

The *Analysis Summary* shows the number of data values and their sum.

**Piechart - Respondents**

Data variable: Respondents

Sum of 3 values: 3018.0
Piechart

The *Piechart* plots each data value using slices of a pie to represent their relative magnitude.

### Pane Options

#### Legends
- Percent
- Counts
- Labels
- None

#### Labels
- Percent
- Counts
- Labels (percent)
- Counts (percent)
- None

- **Legends**: the desired information to be placed in the legend block to the right of the pie.
- **Labels**: the desired information to be placed next to each slice of the pie.

- **Diameter**: the size of the pie relative to the size of the plotting area. Reducing this value makes the pie smaller.

- **Offset #**: number of a slice between 1 and $k$ to offset from the rest of the pie.

- **Lines**: whether to extend lines from each slice to its label.

**Example: Piechart with Offset Slice**
Donut Chart

The Donut Chart is similar to a piechart except that it has a hole in the middle similar to a donut.
Pane Options

Donut Chart Options

- **Legends**: the desired information to be placed in the legend block to the right of the donut.
- **Labels**: the desired information to be placed next to each section of the donut.
- **Inner diameter**: the size of the donut relative to the size of the plotting area. Reducing this value makes the donut smaller.
- **Outer diameter**: the size of the donut hole relative to the size of the plotting area.
- **Lines**: whether to extend lines from each section to its label.