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VISUALIZATION IN ADOXX

Extending the SeMFIS Toolkit with Model-based
Information Visualization approaches









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SS 2015
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| | A | B | C | D | E | F | G | H | I | J |
|----|------|-----|-----|-------|-----|-----|----------|-----|-------|---|
| 1 | Jahr | SPÖ | ÖVP | Grüne | FPÖ | BZÖ | LIF/NEOS | KPÖ | FRANK | |
| 2 | 1945 | 76 | 85 | | | | | | 4 | |
| 3 | 1949 | 67 | 77 | | 16 | | | | 5 | |
| 4 | 1953 | 73 | 74 | | 14 | | | | 4 | |
| 5 | 1956 | 74 | 82 | | 6 | | | | 3 | |
| 6 | 1959 | 78 | 79 | | 8 | | | | | |
| 7 | 1962 | 76 | 81 | | 8 | | | | | |
| 8 | 1966 | 74 | 85 | | 6 | | | | | |
| 9 | 1970 | 81 | 78 | | 6 | | | | | |
| 10 | 1971 | 93 | 80 | | 10 | | | | | |
| 11 | 1975 | 93 | 80 | | 10 | | | | | |
| 12 | 1979 | 95 | 77 | | 11 | | | | | |
| 13 | 1983 | 90 | 81 | | 12 | | | | | |
| 14 | 1986 | 80 | 77 | 8 | 18 | | | | | |
| 15 | 1990 | 80 | 60 | 10 | 33 | | | | | |
| 16 | 1994 | 65 | 52 | 13 | 42 | | 11 | | | |
| 17 | 1995 | 71 | 52 | 9 | 41 | | 10 | | | |
| 18 | 1999 | 65 | 52 | 14 | 52 | | | | | |
| 19 | 2002 | 69 | 79 | 17 | 18 | | | | | |
| 20 | 2006 | 68 | 66 | 21 | 21 | 7 | 8 | | | |
| 21 | 2008 | 57 | 51 | 20 | 34 | 21 | | | | |
| 22 | 2013 | 52 | 47 | 24 | 40 | | 9 | | 11 | |
| 23 | | | | | | | | | | |
| 24 | | | | | | | | | | |
| 25 | | | | | | | | | | |
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| 27 | | | | | | | | | | |
| 28 | | | | | | | | | | |

Figure: Parlament.csv

BASIC TYPES OF COMPARISONS

| | Component comparison | Item comparison | Time series comparison | Frequency distribution comparison | Correlation comparison |
|--------|---|---|--|---|---|
| Pie |  | | | | |
| Bar | |  | | |  |
| Column | | |  |  | |
| Line | | |  |  | |
| Dot | | | | |  |

BASIC CHART TYPES

[1]

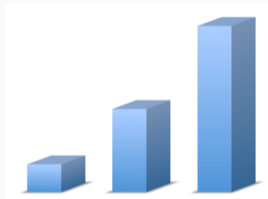


Figure: Columns

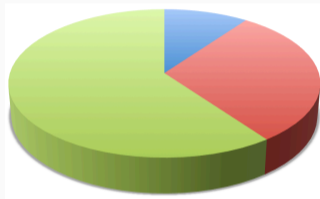
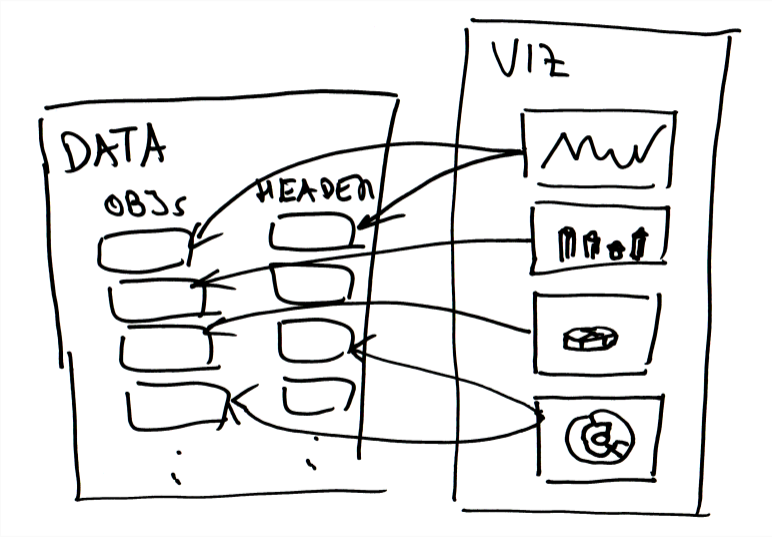


Figure: Pie



Radial Tree Map

[2]





- Most generic
- Record Attribute with
- Key Value Pairs
- Keys and Values of Type STRING

- Depending the visualization
- Record Attribute with ObjName Value Pair
- Record Attribute with Column Color Pair
- all Attributes of type STRING

- Referencing objects in the data model
 - Headers for a Line Chart
 - Data Records for Column, Pie, Radial Tree
- On update an algorithm maps the data to values in the visualization model

T.B. DEMONSTRATED

-  H.-G. Fill, Visualisation for Semantic Information Systems, Gabler, Wiesbaden, 2009
-  D. Skau, Battle of the Charts: Why Cartesian Wins Against Radial
<http://blog.visual.ly/cartesian-vs-radial-charts>, last access 25.06.2015