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| Encoding visually with marks and channels <br> - analyze idiom structure <br>  | Channels | Channels: Matching Types | Channels: Rankings |
| Accuracy: Fundamental Theory <br> Steven' $P$ Pschophysical Power Law $:=1$ \| | Accuracy:Vis experiments | Separability vs. Integrality |  |
| How to encode: Arrange position and region | Arrange tables | Idioms: dot chart, line chart <br> - one key, one value -data - 2 quant attribs -mark: points <br> - dot plot: + line connection marks between them <br> -channels <br> - aligned lengths to express quant value <br> - separated and ordered by key attrib into horizontal regions <br> -task <br> - find trend <br> - connection marks emphasize ordering of items along key axis by explicitly showing relationship | Choosing bar vs line charts <br> - depends on type of key attrib <br> -bar charts if categorical <br> -line charts if ordered <br> - do not use line charts for categorical key attribs -violates expressiveness principle |




