

### Basics

```
import altair as alt
from vega_datasets import data
cars = data.cars
alt.Chart(cars).mark_area().encode(
    x='Horsepower',
    y='Miles_per_Gallon',
    color='Origin',
)
```

### Gallery

Examples Gallery

### Encodings

|          |                             |
|----------|-----------------------------|
| Channels | X, Y, X2, Y2                |
| Mark     | Color, Fill, Size, Property |
| Text     | Text (for labels), Tooltip  |
| Facet    | Column, Row, Facet          |
| Others   | Detail, Order               |

Short form is the same without first Capital letter

### Encoding Data Types

|                  |                                   |
|------------------|-----------------------------------|
| quantitative (Q) | a continuous real-valued quantity |
| ordinal (O)      | a discrete ordered quantity       |
| nominal (N)      | a discrete unordered category     |
| temporal (T)     | a time or date value              |
| (shorthands)     |                                   |

### Encoding Options

| field | field to encode                 |      |
|-------|---------------------------------|------|
| axis  | axis's gridlines, ticks, labels | X, Y |
| bin   | True: bin a quantitative var.   | X, Y |

### Marks

```
mark_area()
mark_line()
mark_bar()
mark_point()
mark_circle()
mark_rect()
mark_text()
mark_tick()
mark_boxplot()
mark_errband()
mark_errbar()
```

### Compound Charts

|                                 |                 |
|---------------------------------|-----------------|
| alt.layer(chart1, chart2)       | chart1 + chart2 |
| alt.hconcat(c1, c2)             | chart1   chart2 |
| alt.vconcat(c1, c2)             | chart1 & chart2 |
| chart.facet(facet, row, column) | as a method     |
| chart.repeat(row, column)       | as a method     |

### Altair Cheat Sheet



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 Page 1 of 1.

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