



Line Chart

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• Scale

Year X? ?

<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> <input type="checkbox"/>	year
<input type="checkbox"/> <input type="checkbox"/>	linear
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	1
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

Value Y? ?

<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> <input type="checkbox"/>	value
<input type="checkbox"/> <input type="checkbox"/>	linear
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	1
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	0
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	13
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

• ? Geom

Line ?

<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> <input type="checkbox"/>	year*value
<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

point ?

??	???
??	year*value
??	??
??	circle
??	4
?? - ??	#ffffff
?? - ??	1



????????????????



?????.png



-
-

```
[{
  "month": "Jan",
  "city": "Tokyo",
  "temperature": 7
}, {
  "month": "Jan",
  "city": "London",
  "temperature": 3.9
}, {
  "month": "Feb",
  "city": "Tokyo",
  "temperature": 6.9
}, {
  "month": "Feb",
  "city": "London",
  "temperature": 4.2
}, {
  "month": "Mar",
  "city": "Tokyo",
  "temperature": 9.5
}, {
```

```
"month": "Mar",
"city": "London",
"temperature": 5.7
}, {
"month": "Apr",
"city": "Tokyo",
"temperature": 14.5
}, {
"month": "Apr",
"city": "London",
"temperature": 8.5
}, {
"month": "May",
"city": "Tokyo",
"temperature": 18.4
}, {
"month": "May",
"city": "London",
"temperature": 11.9
}, {
"month": "Jun",
"city": "Tokyo",
"temperature": 21.5
}, {
"month": "Jun",
"city": "London",
"temperature": 15.2
}, {
"month": "Jul",
"city": "Tokyo",
"temperature": 25.2
}, {
"month": "Jul",
"city": "London",
"temperature": 17
}, {
"month": "Aug",
"city": "Tokyo",
"temperature": 26.5
}, {
```

```
"month": "Aug",
"city": "London",
"temperature": 16.6
}, {
"month": "Sep",
"city": "Tokyo",
"temperature": 23.3
}, {
"month": "Sep",
"city": "London",
"temperature": 14.2
}, {
"month": "Oct",
"city": "Tokyo",
"temperature": 18.3
}, {
"month": "Oct",
"city": "London",
"temperature": 10.3
}, {
"month": "Nov",
"city": "Tokyo",
"temperature": 13.9
}, {
"month": "Nov",
"city": "London",
"temperature": 6.6
}, {
"month": "Dec",
"city": "Tokyo",
"temperature": 9.6
}, {
"month": "Dec",
"city": "London",
"temperature": 4.8
}]
```

- 

40,20,50,50

• Scale

temperature ??? ? X? ?

??	???
??	temperature
??	linear
??????	??
???	0
?????	<code>function(val) { return val + '°C'; }</code>

• ? Geom

??? point ?

??	???
??	month*temperature
??	??
????	city
??	circle
??	4
?? - ??	#ffffff
?? - ??	1

??? Line ?

??	???
??	month*temperature
??	??
????	city



????????????????



?????.png



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```
[{
  "month": "Jan",
  "city": "Tokyo",
  "temperature": 7
}, {
  "month": "Jan",
  "city": "London",
  "temperature": 3.9
}, {
  "month": "Feb",
  "city": "Tokyo",
  "temperature": 6.9
}, {
  "month": "Feb",
  "city": "London",
  "temperature": 4.2
}, {
  "month": "Mar",
  "city": "Tokyo",
  "temperature": 9.5
}, {
```

```
"month": "Mar",
"city": "London",
"temperature": 5.7
}, {
"month": "Apr",
"city": "Tokyo",
"temperature": 14.5
}, {
"month": "Apr",
"city": "London",
"temperature": 8.5
}, {
"month": "May",
"city": "Tokyo",
"temperature": 18.4
}, {
"month": "May",
"city": "London",
"temperature": 11.9
}, {
"month": "Jun",
"city": "Tokyo",
"temperature": 21.5
}, {
"month": "Jun",
"city": "London",
"temperature": 15.2
}, {
"month": "Jul",
"city": "Tokyo",
"temperature": 25.2
}, {
"month": "Jul",
"city": "London",
"temperature": 17
}, {
"month": "Aug",
"city": "Tokyo",
"temperature": 26.5
}, {
```

```
"month": "Aug",
"city": "London",
"temperature": 16.6
}, {
"month": "Sep",
"city": "Tokyo",
"temperature": 23.3
}, {
"month": "Sep",
"city": "London",
"temperature": 14.2
}, {
"month": "Oct",
"city": "Tokyo",
"temperature": 18.3
}, {
"month": "Oct",
"city": "London",
"temperature": 10.3
}, {
"month": "Nov",
"city": "Tokyo",
"temperature": 13.9
}, {
"month": "Nov",
"city": "London",
"temperature": 6.6
}, {
"month": "Dec",
"city": "Tokyo",
"temperature": 9.6
}, {
"month": "Dec",
"city": "London",
"temperature": 4.8
}]
```

- 

40, 20, 50, 50

• Scale

temperature ???? X? ?

??	???
??	temperature
??	linear
??????	??
???	0
?????	function (val) { return val + '°C'; }

• ? Geom

??? Line ?

??	???
??	month*temperature
??	??
????	city
??	smooth

??? point ?

??	???
??	month*temperature
??	??
????	city

??	circle
??	4
?? - ??	#ffffff
?? - ??	1


```

}, {
  month: 'Aug',
  value: 77
}, {
  month: 'Sep',
  value: 99
}, {
  month: 'Oct',
  value: 106
}, {
  month: 'Nov',
  value: 88
}, {
  month: 'Dec',
  value: 56
}];

```

-

40,40,60,60

- Scale

month ??? ? X? ?

??	???
??	month
??	cat
??????	??

value ??? ? Y? ?

??	???
??	value

??	linear
????	10
??????	??
???	30
???	110

• ? Geom

??? point ?

??	???
??	month*value
??	??
??	circle
?? - ??	#ffffff
?? - ??	1

??? Line ?

??	???
??	month*value
??	??
??	hv


```
"month": "Mar",
"key": "series2",
"value": 34
}, {
"month": "Apr",
"key": "series1",
"value": 158
}, {
"month": "Apr",
"key": "series2",
"value": 47
}, {
"month": "May",
"key": "series1",
"value": 133
}, {
"month": "May",
"key": "series2",
"value": 63
}, {
"month": "June",
"key": "series1",
"value": 143
}, {
"month": "June",
"key": "series2",
"value": 58
}, {
"month": "July",
"key": "series1",
"value": 176
}, {
"month": "July",
"key": "series2",
"value": 56
}, {
"month": "Aug",
"key": "series1",
"value": 194
}, {
```

```
"month": "Aug",
"key": "series2",
"value": 77
}, {
"month": "Sep",
"key": "series1",
"value": 115
}, {
"month": "Sep",
"key": "series2",
"value": 99
}, {
"month": "Oct",
"key": "series1",
"value": 134
}, {
"month": "Oct",
"key": "series2",
"value": 106
}, {
"month": "Nov",
"key": "series1",
"value": 110
}, {
"month": "Nov",
"key": "series2",
"value": 88
}, {
"month": "Dec",
"key": "series1",
"value": 91
}, {
"month": "Dec",
"key": "series2",
"value": 56
}]
```

- 

40, 40, 60, 60

• ? Geom

☐☐☐ Line ☐

??	???
??	month*value
??	??
????	key
??	hv