

?????

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?????.png

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```
[{
  country: 'Asia',
  year: '1750',
  value: 502
}, {
  country: 'Asia',
  year: '1800',
  value: 635
}, {
  country: 'Asia',
  year: '1850',
  value: 809
}, {
  country: 'Asia',
  year: '1900',
  value: 5268
}, {
  country: 'Asia',
  year: '1950',
  value: 4400
}, {
```

```
    country: 'Asia',
    year: '1999',
    value: 3634
  }, {
    country: 'Asia',
    year: '2050',
    value: 947
  }, {
    country: 'Africa',
    year: '1750',
    value: 106
  }, {
    country: 'Africa',
    year: '1800',
    value: 107
  }, {
    country: 'Africa',
    year: '1850',
    value: 111
  }, {
    country: 'Africa',
    year: '1900',
    value: 1766
  }, {
    country: 'Africa',
    year: '1950',
    value: 221
  }, {
    country: 'Africa',
    year: '1999',
    value: 767
  }, {
    country: 'Africa',
    year: '2050',
    value: 133
  }, {
    country: 'Europe',
    year: '1750',
    value: 163
  }, {
```

```
    country: 'Europe',
    year: '1800',
    value: 203
  }, {
    country: 'Europe',
    year: '1850',
    value: 276
  }, {
    country: 'Europe',
    year: '1900',
    value: 628
  }, {
    country: 'Europe',
    year: '1950',
    value: 547
  }, {
    country: 'Europe',
    year: '1999',
    value: 729
  }, {
    country: 'Europe',
    year: '2050',
    value: 408
  }, {
    country: 'Oceania',
    year: '1750',
    value: 200
  }, {
    country: 'Oceania',
    year: '1800',
    value: 200
  }, {
    country: 'Oceania',
    year: '1850',
    value: 200
  }, {
    country: 'Oceania',
    year: '1900',
    value: 460
  }, {
```

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country: 'Oceania',
year: '1950',
value: 230
}, {
country: 'Oceania',
year: '1999',
value: 300
}, {
country: 'Oceania',
year: '2050',
value: 300
}]

```

• ??

40,40, 80, 60

• ??? Scale

year ??? ? X? ?

| ??     | ???    |
|--------|--------|
| ??     | year   |
| ??     | linear |
| ????   | 50     |
| ?????? | ??     |

• ? Geom

???? area ?

| ?? | ???        |
|----|------------|
| ?? | year*value |
| ?? | ???        |

|      |            |
|------|------------|
| ???? | country    |
| ???? | ??   stack |

??? Line ?

|      |            |
|------|------------|
| ??   | ???        |
| ??   | year*value |
| ??   | ??         |
| ???? | country    |
| ??   | 2          |
| ???? | ??   stack |

• ?? Legend

|    |         |
|----|---------|
| ?? | ???     |
| ?? | ??      |
| ?? | country |
| ?? | ?       |
| ?? | ??      |