paper: 210 x 297 mm, cards: 180 x 35 mm

```
laender.values
```

```
ger = pd.Series([80000000, 1.4], index=['population', 'fertility'])
```

```
laender.index
```

```
laender['population'] > 200000000
```

```
'Russia' in df
```

```
laender['population'] + 1000000
```

```
laender.ix[3:7]
```

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```
df = laender.transpose()
```

```
def anfangsbuchstabe(s): return s[0]
laender['initial'] = laender['continent'].apply(anfangsbuchstabe)
```

```
laender['continent']
```

```
laender[laender['population'] > 200000000]
```

```
laender['fertility'] * 1.5
```

```
laender[['population', 'continent']]
```

```
# p.143/144
laender.describe()
```

```
laender['population'].mean()
```

```
laender.cumsum()
```

```
laender.tail(3)
```

```
import pylab as plt
laender.plot('population', 'fertility', style='ro')
plt.savefig('pop.png')
```

```
laender.groupby('continent')['population'].sum()
```

```
laender.sort(['continent', 'fertility'])
```

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```
laender['population'].sum()
```

```
laender.head(3)
```

```
laender.shape()
```

```
laender['continent'].value_counts()
```

```
laender.stack()
```

```
laender['continent'].unique()
```