


IMD0033 - Probabilidade

Aula 16 - Visualização Exploratória de Dados II - Cores, Layout e Anotações

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Agenda

- Estudo de caso: diferença entre gêneros para cursos STEAM
- Adequação de cores
- Largura das linhas
- Melhorando o layout
- Substituindo legendas por anotações

Atualizar o repositório

```
git clone https://github.com/ivanovitchm/imd0033_2018_2.git
```

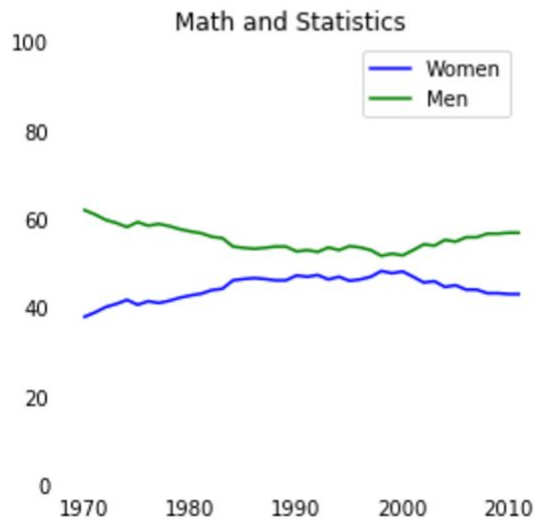
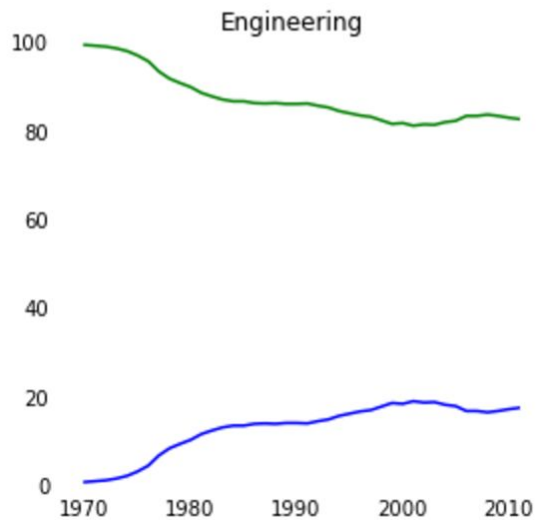
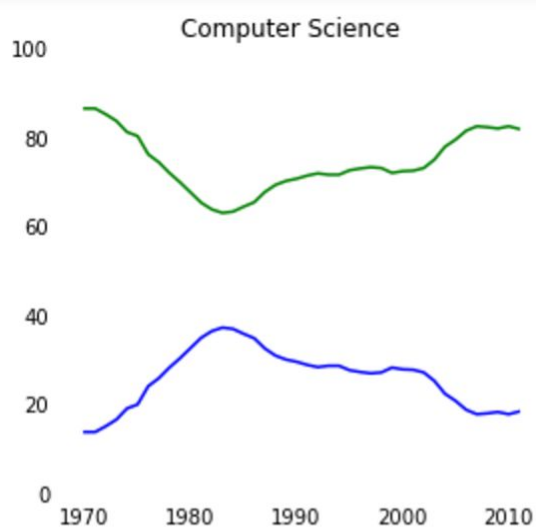
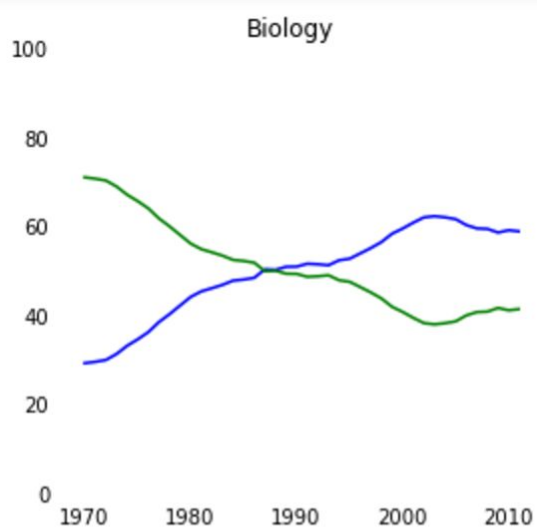
Ou

```
git pull
```

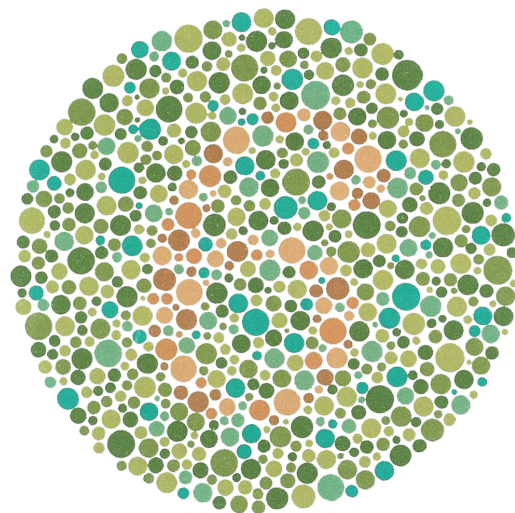
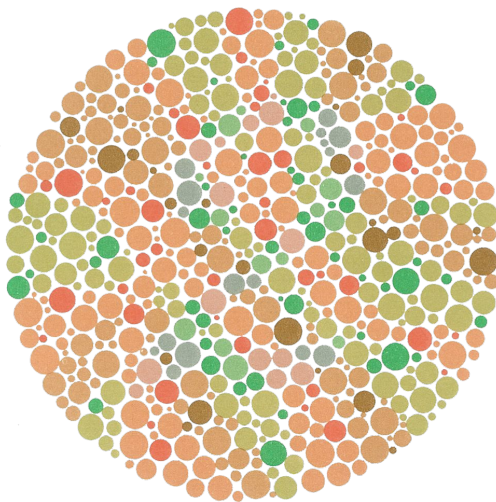
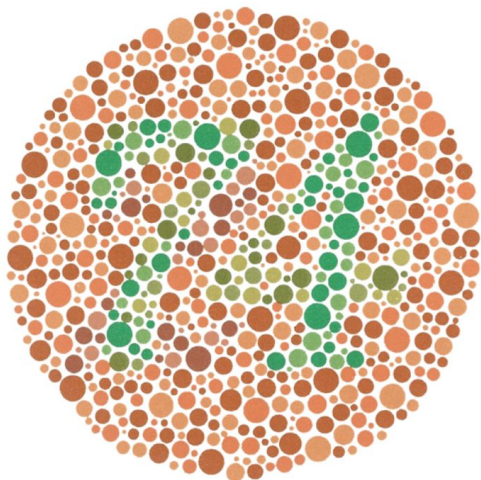
Diferença de gêneros

Year	Agriculture	Architecture	Art and Performance	Biology	Business	Communications and Journalism	Computer Science	Education	Engineering
1970	4.229798	11.921005	59.7	29.088363	9.064439	35.3	13.6	74.535328	0.8
1971	5.452797	12.003106	59.9	29.394403	9.503187	35.5	13.6	74.149204	1.0
1972	7.420710	13.214594	60.4	29.810221	10.558962	36.6	14.9	73.554520	1.2

- Porcentagem de mulheres que se formaram entre 1970 a 2012
- Departamento Americano para Estatísticas Educacionais













Cores



Configurando as cores (RGB)

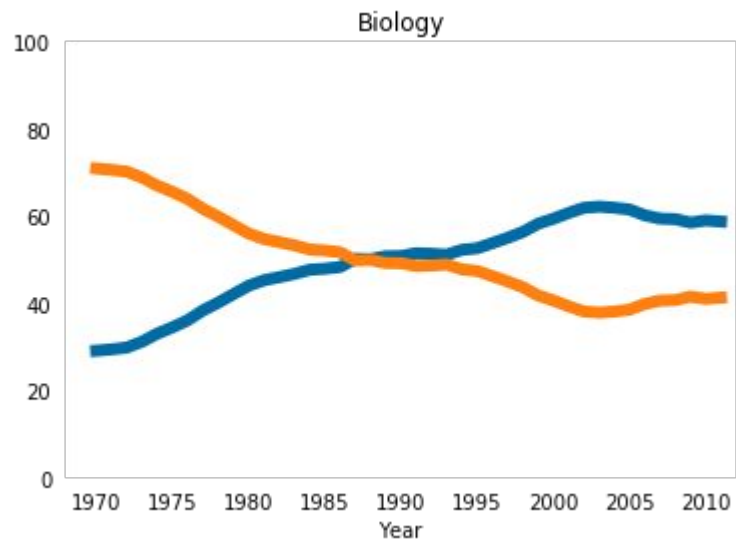
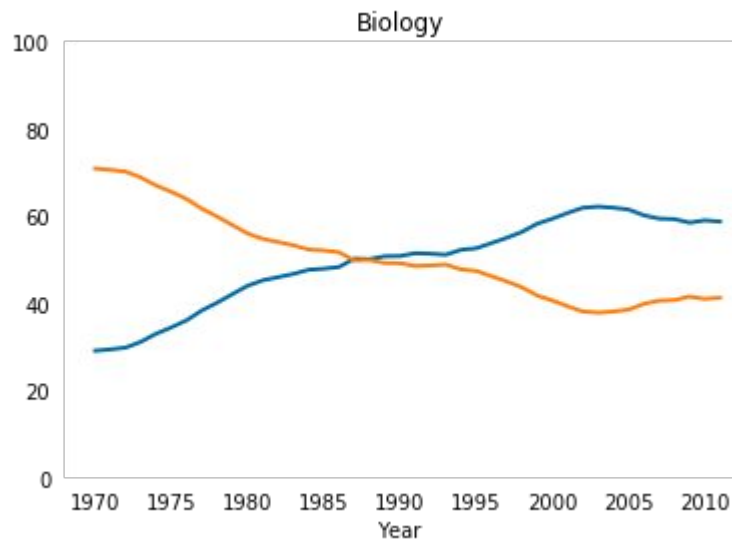
Cores mais amplas

	0.107.164		200.82.0
	255.128.14		137.137.137
	171.171.171		162.200.236
	89.89.89		255.188.121
	95.158.209		207.207.207

```
cb_dark_blue = (0/255,107/255,164/255)
```

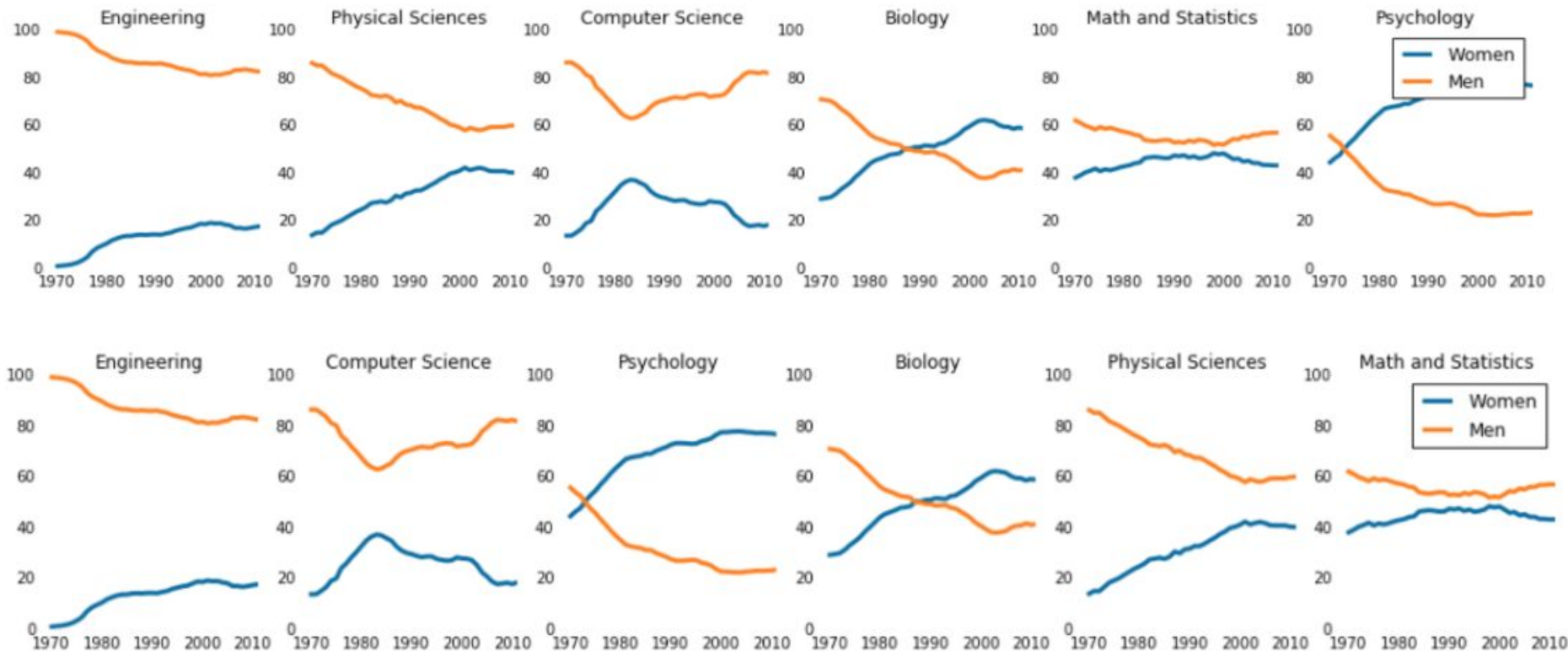
```
women_degrees.plot(kind='line',x='Year',y='Biology', color=cb_dark_blue)
```

Largura das linhas

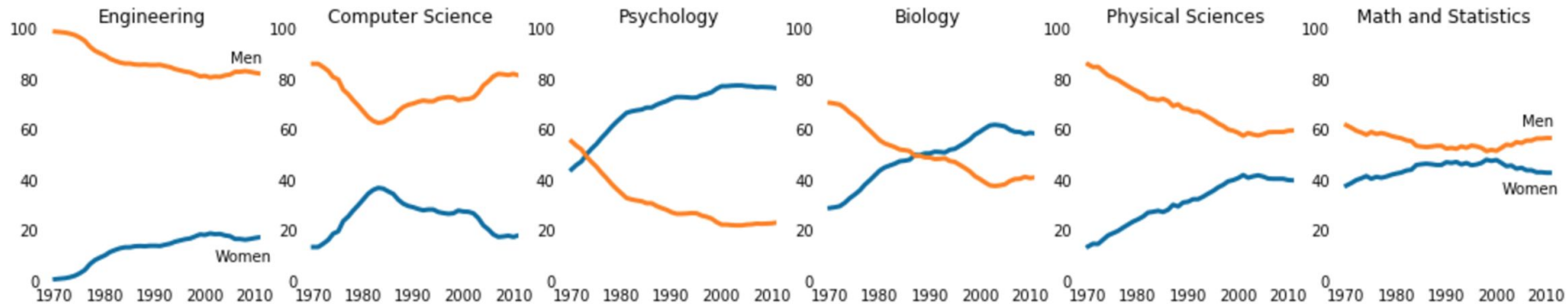


```
women_degrees.plot(kind='line',x='Year',y='Biology', linewidth=2)
```

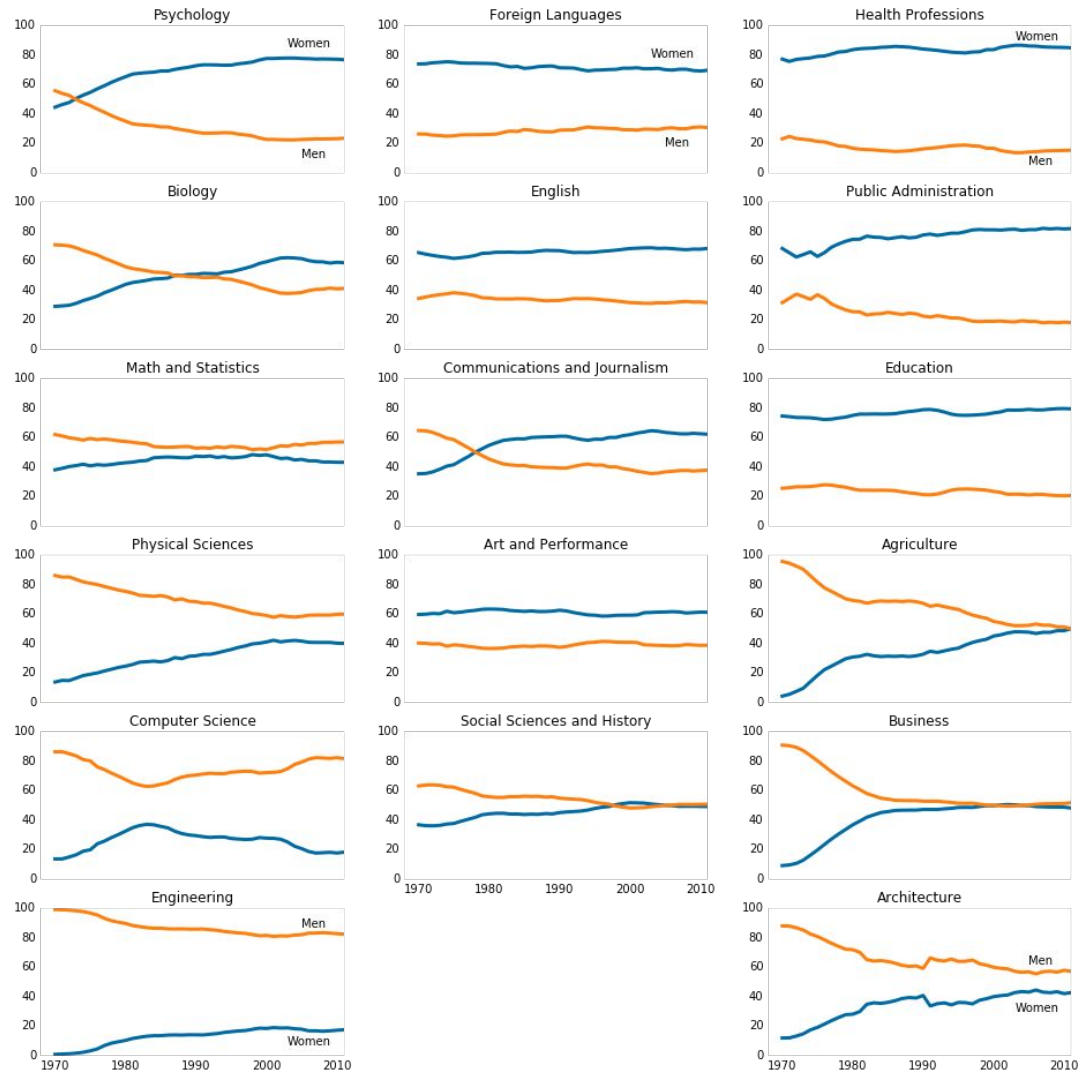

Aperfeiçoando o layout



Substituindo legendas por anotações



```
ax.text(1970, 0, "starting point")
```





```
index.js
import React, { useState } from 'react';
import './index.css';

const App = () => {
  const [contacts, setContacts] = useState([]);
  const [name, setName] = useState('');
  const [phone, setPhone] = useState('');
  const [email, setEmail] = useState('');

  const handleSubmit = (e) => {
    e.preventDefault();
    setContacts([...contacts, { name, phone, email }]);
    setName('');
    setPhone('');
    setEmail('');
  };

  return (
    <div>
      <h1>React Form</h1>
      <form>
        <input type="text" value={name} onChange={e => setName(e.target.value)} />
        <input type="text" value={phone} onChange={e => setPhone(e.target.value)} />
        <input type="text" value={email} onChange={e => setEmail(e.target.value)} />
        <button type="button" value="Submit" />
      </form>
      <ul>
        {contacts.map((contact) => (
          <li>{contact.name} {contact.phone} {contact.email}</li>
        ))}
      </ul>
    </div>
  );
};

export default App;
```

```
index.html
<!DOCTYPE html>
<html>
  <head>
    <meta charset="UTF-8" />
    <title>React Form</title>
  </head>
  <body>
    <div>
      <h1>React Form</h1>
      <form>
        <input type="text" />
        <input type="text" />
        <input type="text" />
        <button type="button" value="Submit" />
      </form>
      <ul>
        <li></li>
      </ul>
    </div>
  </body>
</html>
```