Peer-review - matching, timeline and guidelines

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NeGI 2019 course in Abisko, Sweden. 21.10.2019, Paul Zieger

1 Load Packages

```
In [1]: import random
        import matplotlib.pyplot as plt
        %matplotlib inline
        import numpy as np
        import time
```

2 List with participating students

```
In [2]: negi_group=['Sigrid','Ingeborg','Goutam','Gabriel','Eemeli','Johanne',
                    'Herman','Johannes','Jakob','Marit','Aiden','Bjørn',
                    'Lasse','Stine','Sofie','Dina','Silje','Dominic','Tuuli',
                    'Marek','Luis','Jonah','Johan','Franziska','Jolanta','Lance']
```

3 Results

Random picking from a list to match peer-review partners. Show results in a figure.

```
In [3]: ## Figure
        with plt.xkcd():
            negi_group_dum=negi_group.copy()
            plt.figure(figsize=(9, 7))
            for i in range(0,len(negi_group)):
                name_dum=negi_group[i]
                while name_dum == negi_group[i]:
                    name_dum=random.choice(negi_group_dum)
                negi_group_dum.remove(name_dum)
                plt.plot([1,3],[i,negi_group.index(name_dum)],'-o')
                plt.text(0.9,i,negi_group[i],horizontalalignment='right',
                         verticalalignment='center',color='black')
                plt.text(3.1,i,negi_group[i],horizontalalignment='left',
                         verticalalignment='center',color='black')
            plt.text(2,i+.5,'... WILL BE REVIEWED BY:',horizontalalignment='center',
```

```
            verticalalignment='center',color='black')
plt.tick_params(axis='y', which='both', right=False,
                left=False, labelleft=False)
plt.tick_params(axis='x', which='both', bottom=False,
                top=False, labelbottom=False)
plt.xlim(0,4)
plt.annotate(
    'THESE PEOPLE OVER HERE \n HAVE TO SEND THEIR REPORTS ...',
    xy=(0.95, -0.5), arrowprops=dict(arrowstyle='->'), xytext=(-0.2, -6))
plt.annotate(
    '... TO THE PEOPLE \n ON THIS SIDE!',
    xy=(3, -0.5), arrowprops=dict(arrowstyle='->'), xytext=(3, -6))
plt.annotate(
    'CHECK, BJØRN IS \n ON THE LIST!',
    xy=(0.6, 11.5), arrowprops=dict(arrowstyle='->'), xytext=(-1.1, 15))
plt.annotate('NO. OF PARTICIPANTS: ' + str(len(negi_group)),
             xy=(0.5, 12),  xytext=(3.5, -2.5))

plt.tight_layout()
plt.show()
```

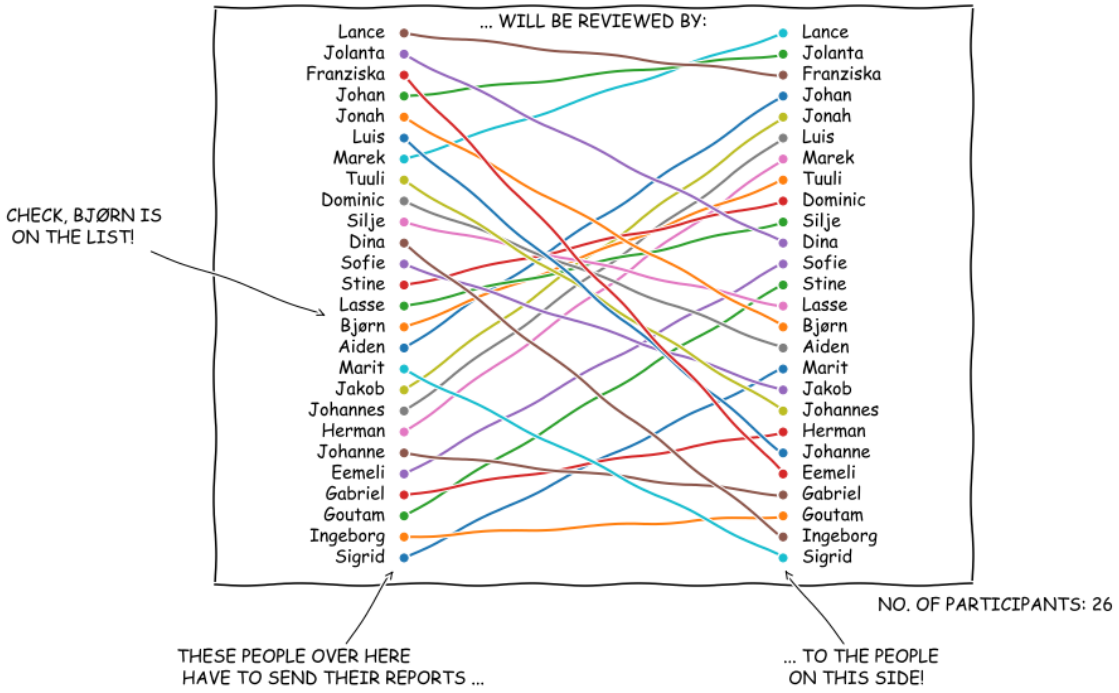

Figure 1: Result of randomly picked peer-review partners. Participants on the right hand side have to send their reports to the person on the left hand side.

```
In [5]: ## Figure
        with plt.xkcd():
```

```
fig = plt.figure(figsize=(12, 5))
ax = fig.add_subplot(1, 1, 1)
ax.spines['right'].set_color('none')
ax.spines['top'].set_color('none')
plt.xticks([])
plt.yticks([])
plt.plot([0.5,1,2,3,4,6,7],[1,1,2,2,2.5,2.5,2.5],'--',color='k')
plt.plot([0.5,1,2,3,4,6],[1,1,2,2,2.5,2.5])
plt.plot([2,3,4.5,4,6],[2,2,2.5,2.5,2.5],'o',color='k')
plt.annotate(
    '1. NOV: SEND REPORT \nTO PEER-REVIEW',ha='center',
    xy=(2, 2), arrowprops=dict(arrowstyle='->'), xytext=(1.5, 2.5))
plt.annotate(
    '5. NOV: RETURN \nOF FEEDBACK',ha='center',
    xy=(3, 2), arrowprops=dict(arrowstyle='->'), xytext=(2.5, 1.3))
plt.annotate(
    '12. NOV: SUBMISSION OF \nFINAL VERSION, YEAH!',ha='center',
    xy=(4, 2.5), arrowprops=dict(arrowstyle='->'), xytext=(3.5, 3),
    color='darkorange')
plt.annotate(
    '19. NOV: FEEDBACK FROM THE\nASSISTANTS (FOR OSLO STUDENTS)',ha='center',
    xy=(4.5, 2.5), arrowprops=dict(arrowstyle='->'), xytext=(4.5, 1.7))
plt.annotate(
    '30. NOV: FEEDBACK FROM THE\nASSISTANTS (FOR ALL STUDENTS)',ha='center',
    xy=(6, 2.5), arrowprops=dict(arrowstyle='->'), xytext=(5.9, 2.8))
plt.annotate(
    'EXTENSION FOR \n"BAD" REPORTS',ha='center',
    xy=(6.75, 2.5), arrowprops=dict(arrowstyle='->'), xytext=(6.95, 1.9))
plt.xlabel('TIME')
plt.ylim(0.9,3.5)
plt.title('TIMELINE')
plt.ylabel('REPORT QUALITY')
plt.show()
```

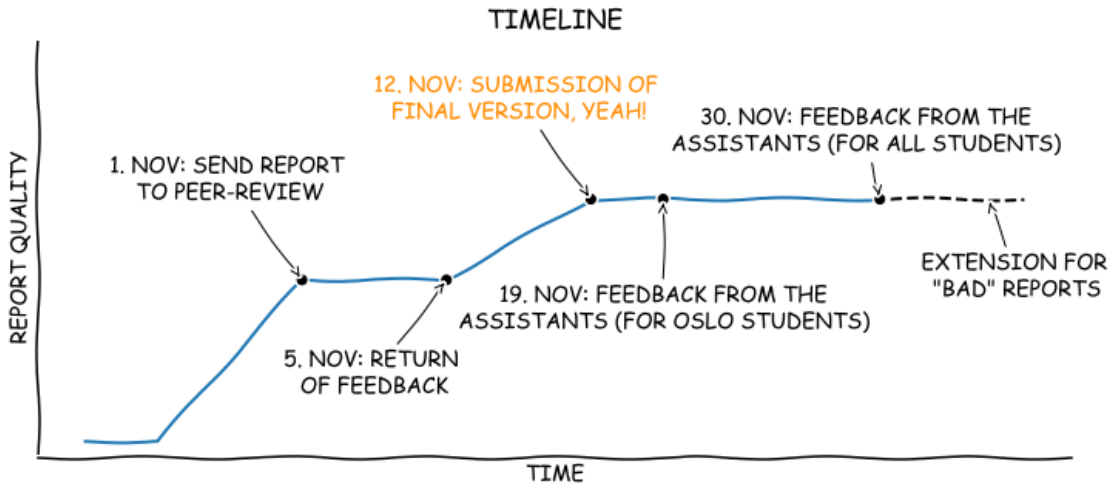

Figure 2: Timeline for the course report.

4 Some review feedback guidelines

- One paragraph with general comments (incl. scientific comments on results).
  - What did I like?
  - What would I do differently?
  - What else would I look into?
- A list with specific comments (line-by–line)
  - Mention things which are unclear
  - Identify possible bugs
  - Give tips for things which could be improved
  - Further comments if you have any
- Keep it short and precise (~1 page)