The spiders only work on the website 'www.unsplash.com'. For the infinite-scroll spider we used fixed bases (for json files), which only work on certain pages of this side. We tried to figure out another way, but it seems to be nearly impossible to code a spider that can hop from one page to the other and scroll indefinitely. To understand how the spiders and YOLO (You only look once) object detection work, look at the files 'Spider Part I.pdf', 'Spider Part II.pdf' and 'Yolo.pdf'.

Installation guide:

Both Folders ‘Praktikum’ and ‘darkflow-master’ have to be directly on the desktop  
pip install scrapy: (for the spider to scrape websites)  
pip install pillow (for handling images)  
pip install -e . (needs to be install in directory, where setup.py can be found)  
pip install OpenCV  
pip install silence-tensorflow  
pip install glob  
pip install urllib3  
pip install twisted

If the guide is illegible, please follow the guide we used to install yolo: <https://towardsdatascience.com/implementing-yolo-on-a-custom-dataset-20101473ce53>

run program ‘run\_spider3.py’ from Praktikum; afterwards ‘yolo.py’ from darkflow-master; then ‘gradient\_rotate.py’ from darkflow-master