

## EC 0.6 - Reports

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### Q1

*You may copy the question into your report, but make sure that you make it clear where the question ends and your answer begins.*

### Answer

*All figures must have a caption and must be referenced in the text. Example below.*

Figure 1 shows a picture of a cat.



**Figure 1:** black cat, Hal, sitting on rug

*If you want to include code in your report, you can insert a screenshot (if it's legible), or you can copy/paste the code into a listings environment. There are examples below and more information is available at [https://www.overleaf.com/learn/latex/code\\_listing](https://www.overleaf.com/learn/latex/code_listing).*

Listing 1 is an example of directly copying code into the LaTeX document and having the listings package perform syntax highlighting. Listing 2 is an example of importing the code from a file rather than copying it in.

```
1 # Check if an item exists
2 thisset = {"apple", "banana", "cherry"}
3 print("banana" in thisset)
```

**Listing 1:** Python example of checking if an item exists in a set

```

1 #!/usr/local/bin/python3
2 # testargs.py
3
4 import sys
5
6 print("{} is the name of the script." . format(sys.argv[0]))
7 print("There are {} arguments: {}".format(len(sys.argv), str(sys.
    argv)))
8
9 for ind, arg in enumerate(sys.argv):
10     print("{}: {}".format(ind, arg, sys.argv[ind]))

```

**Listing 2:** Python sample code loaded from file

Table 1 shows a simple example table. Table 2 shows an example confusion matrix (you'll see this term later) from [https://en.wikipedia.org/wiki/Confusion\\_matrix](https://en.wikipedia.org/wiki/Confusion_matrix). This employs rows that span multiple columns (multicol) and columns that span multiple rows (multirow).

**Table 1:** Simple Table

Week	Week Start Date	Topic
1	Aug 24	Introduction to Web Science and Web Architecture
2	Aug 31	Introduction to Python
3	Sept 7	Measuring the Web
4	Sept 14	Searching the Web

**Table 2:** Example Confusion Matrix from Wikipedia

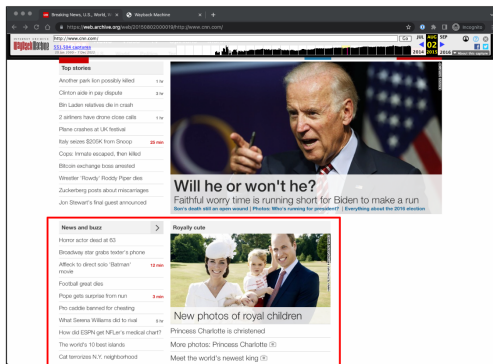
		Actual	
		Cat	Dog
Predicted	Cat	5 (TP)	3 (FP)
	Dog	2 (FN)	3 (TN)

*You must provide some discussion of every answer. Discuss how you arrived at the answer and the tools you used. Discuss the implications of your answer.*

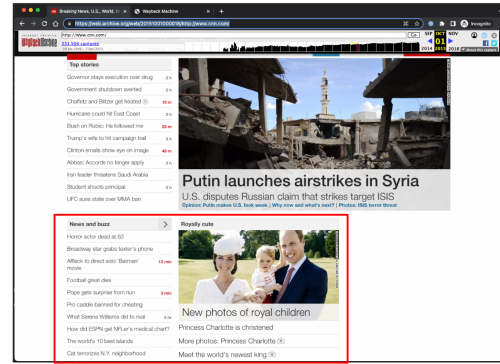
## Q2

### Answer

Figure 2 shows an example of grouping related figures into a subfigure. This includes Figure 2a and Figure 2b.



(a) Archived CNN.com from Aug 2, 2015,  
<https://web.archive.org/web/20150802000019/http://www.cnn.com/>.



(b) Archived CNN.com from Oct 1, 2015,  
<https://web.archive.org/web/20151001000018/http://www.cnn.com/>.

**Figure 2:** Content from Jul 10, 2015 appearing in replayed pages with Memento-Datetimes of Aug 2, 2015 and Oct 1, 2015.

## Q3

## Answer

## References

*Every report must list the references that you consulted while completing the assignment. If you consulted a webpage, you must include the URL.*

- W3Schools, Python Examples [https://www.w3schools.com/python/python\\_examples.asp](https://www.w3schools.com/python/python_examples.asp)
- SS64, An A-Z Index of the Linux command line, <https://ss64.com/bash/>
- YouTube, What is Web Science?, <https://www.youtube.com/watch?v=demjTp3A55A>