EC 0.6 - Reports

Kenny Bush

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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 quasar engulfing a star.

Figure 1: Quasar

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`.

Listing **??** 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.

```python
#!/usr/local/bin/python3
# quasars.py

import sys

print ("{} is the name of the script." . format(sys.argv[0]))
print ("There are {} arguments: {}" . format(len(sys.argv), str(sys.argv)))

for ind, arg in enumerate(sys.argv):
    print ("[{}]: {} {}".format(ind, arg, sys.argv[ind]))

# Quasars
quasars = [
    {"name": "3C 273", "distance": "2.4 billion light years", "luminosity": "4 trillion times the Sun"},
    {"name": "3C 48", "distance": "4.3 billion light years", "luminosity": "2 trillion times the Sun"},
    {"name": "APM 08279+5255", "distance": "12 billion light years", "luminosity": "a few quadrillion times the Sun"}
]

for quasar in quasars:
    print("Quasar Name: {}".format(quasar["name"]))
    print("Distance: {}".format(quasar["distance"]))
    print("Luminosity: {}".format(quasar["luminosity"]))
```

Listing 1: A script for listing famous quasars

```python
#!/usr/local/bin/python3
# testargs.py

import sys

print ("{} is the name of the script." . format(sys.argv[0]))
print ("There are {} arguments: {}" . format(len(sys.argv), str(sys.argv)))

for ind, arg in enumerate(sys.argv):
    print ("[{}]: {} {}".format(ind,arg,sys.argv[ind]))
```

Listing 2: Python sample code loaded from file

Table **??** 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`. This employs rows that span multiple columns (multicol) and columns that span multiple rows (multirow).

You must provide some discussion of every answer. Discuss how you arrived at the answer and

Table 1: Syllabus

Week	Date	Topic
1	Jan 11	Introduction to Web Science and Web Architecture
2	Jan 18	Introduction to Python
3	Jan 25	Measuring the Web
4	Feb 1	Searching the Web

Table 2: Example Confusion Matrix from Wikipedia

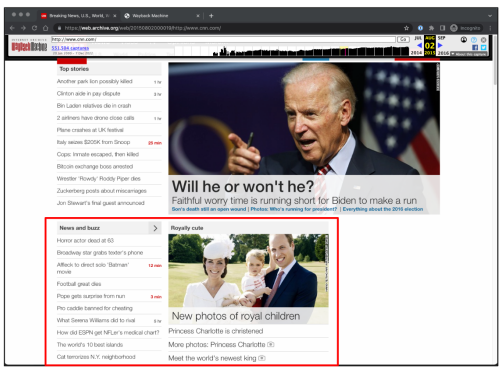
		Actual	
		Cat	Dog
Predicted	Cat	5 (TP)	3 (FP)
	Dog	2 (FN)	3 (TN)

the tools you used. Discuss the implications of your answer.

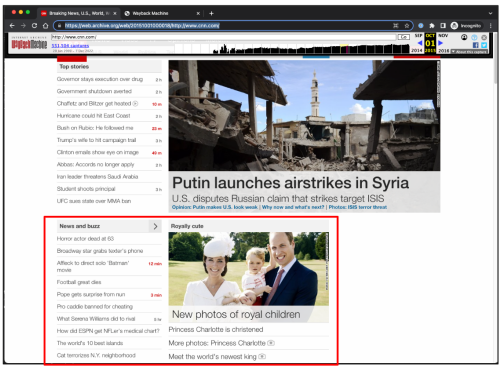
Q2

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.

- Web Science: An Interdisciplinary Approach to Understanding the Web, `https://cacm.acm.org/research/web-science/`
- We knew the web was big..., `https://googleblog.blogspot.com/2008/07/we-knew-web-was-big.html`
- The Size of the World Wide Web, `https://www.worldwidewebsize.com/`