In [19]:
```python
!pip install tika
```

```
Collecting tika
  Downloading https://files.pythonhosted.org/packages/96/07/244fbb9c74c0de8a3745
cc9f3f496077a29f6418c7cbd90d68fd799574cb/tika-1.24.tar.gz
Requirement already satisfied: setuptools in /Users/davidrollins/opt/anaconda3/l
ib/python3.7/site-packages (from tika) (41.4.0)
Requirement already satisfied: requests in /Users/davidrollins/opt/anaconda3/li
b/python3.7/site-packages (from tika) (2.22.0)
Requirement already satisfied: chardet<3.1.0,>=3.0.2 in /Users/davidrollins/opt/
anaconda3/lib/python3.7/site-packages (from requests->tika) (3.0.4)
Requirement already satisfied: certifi>=2017.4.17 in /Users/davidrollins/opt/ana
conda3/lib/python3.7/site-packages (from requests->tika) (2019.9.11)
Requirement already satisfied: urllib3!=1.25.0,!=1.25.1,<1.26,>=1.21.1 in /User
s/davidrollins/opt/anaconda3/lib/python3.7/site-packages (from requests->tika)
(1.24.2)
Requirement already satisfied: idna<2.9,>=2.5 in /Users/davidrollins/opt/anacond
a3/lib/python3.7/site-packages (from requests->tika) (2.8)
Building wheels for collected packages: tika
  Building wheel for tika (setup.py) ... done
  Created wheel for tika: filename=tika-1.24-cp37-none-any.whl size=32884 sha256
=069256ecab7c2ecb8496bcb4cb962b34329f6be1400b08e5c6600a6c03e34f78
  Stored in directory: /Users/davidrollins/Library/Caches/pip/wheels/73/9c/f5/0b
1b738442fc2a2862bef95b908b374f8e80215550fb2a8975
Successfully built tika
Installing collected packages: tika
Successfully installed tika-1.24
```

In [1]:
```python
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import sklearn
import requests
from bs4 import BeautifulSoup
from collections import Counter
import io
import re
import math
from tika import parser
import random
from random import choices
import operator
from sklearn import linear_model
```

```
---------------------------------------------------------------------------
ModuleNotFoundError                       Traceback (most recent call last)
<ipython-input-1-2f7ee4f97d11> in <module>
      9 import re
     10 import math
---> 11 from tika import parser
     12 import random
     13 from random import choices

ModuleNotFoundError: No module named 'tika'
```

Problem 1

Read Shannon's 1948 paper 'A Mathematical Theory of Communication'. Focus on pages 1-19 (upto Part II), the remaining part is more relevant for communication.

http://math.harvard.edu/~ctm/home/text/others/shannon/entropy/entropy.pdf

This paper explores the field of communication theory, and in particular, how noise in the channel affects communication and how to remedy this with meessage compression. Shannon explores three different systems for this problem: discrete, mixed, and continuous.

Discrete systems are systems in which both the message and the signal are a sequence of discrete symbols. Continous Systems are systems in which the message and signal are both treated as continuous functions. And mixed systems are systems in which both discrete and continuous variables appear.

Shannon starts by explaining thee necessary components of a communication system and the process in which a message is sent and recieved.

First, an information source produces a message to be communicated to the reciever. Next, the transmitter operates on the message to produce a signal to transmit over a channeel. The channel is the medium used to transmit the signal from transmitter to receiver. Then, the receiver performs the inverse operation of that done by the transmitter to reconstruct the message from the signal.

Then, Shannon lays out the theoretical solutions to compress messages with a noiseless example and then looks into examples with noise.

In order to analyze message/signal transmission through a channel, Shannon introduced a way to measure how much information is in a message, also known as entropy.

One important discovery was that if the amount of information transmitted (the entropy rate) is more than a channel's capacity, then errors would occur during transmission. But if the entropy rate is less than a channel's capacity, there exists a way to encode the message without errors.

He does this by finding the length of a codeword then encoding a "prefix" with those lengths.

Problem 2:

Scraping, Entropy and ICML papers.ICML

The International Conference on Machine Learning – is a top research conference in Machinelearning.

Scrape all the pdfs of all ICML 2020 papers from http://proceedings.mlr.press/v119/

1. What are the top 10 common words in the ICML papers?

2. Let Z be a randomly selected word in a randomly selected ICML paper. Estimate the entropy of Z.

3. Synthesize a random paragraph using the marginal distribution over words.

4. (Optional) Synthesize a random paragraph using an n-gram model on words. Synthesizea random paragraph using any model you want. Top five synthesized text paragraphs

winbonus!

```python
url = "http://proceedings.mlr.press/v97/"
r = requests.get(url)
soup = BeautifulSoup(r.content, 'html5lib')
#print(soup.prettify()) -- too long

preamble = "http://proceedings.mlr.press/v97/"
papers = []


for elm in soup.find_all(attrs={"target":"_blank"}):  # soup() is equivalent to
    href = elm["href"]

    if preamble in href and "supp.pdf" not in href:
        papers.append(href)

#print(papers)


words = []
for pdf in papers:  #[:10]: # remove [:10] in final version - takes a long time
    content = parser.from_file(pdf)["content"]
    words += re.sub("[^\w]", " ", content).split()



count = {}
for word in words:
    if word.lower() not in count:
        count[word.lower()] = 1
    else:
        count[word.lower()] += 1


def find_highest(count):
    max_key = max(count.items(), key=operator.itemgetter(1))[0]
    count.pop(max_key, None)
    return max_key

top30_words = []
for i in range(0,30):
    top30_words.append(find_highest(count))



uninteresting_words = ['the',
 'and',
 'of',
 'a',
 'to',
 'in',
 'for',
 '0',
 'is',
 'we',
 '1',
 't',
 'on',
```

```python
    'by',
    'as',
    's',
    'this',
    'are',
    'with',
    '2',
    'that',
    'be',
    'et',
    'from',
    'al',
    '3',
    'can',
    'an',
    'cn',
    'w',
    'it',
    'g','e','o','our','der','at','z','q','x','m','http','org','4','d','j','y','c

top10_words = []
while(len(top10_words) < 10):

    word = find_highest(count)

    if word in uninteresting_words:
        continue
    else:
        top10_words.append(word)

print("Top 10 words:")
print(top10_words)
```

```
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```

```
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2021-03-09 12:44:30,452 [MainThread  ] [INFO ]  Retrieving http://proceedings.ml
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2021-03-09 12:44:33,023 [MainThread  ] [INFO ]  Retrieving http://proceedings.ml
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q/T/v97-zhou19b-zhou19b.pdf.
2021-03-09 12:44:33,329 [MainThread  ] [INFO ]  Retrieving http://proceedings.ml
r.press/v97/zhou19c/zhou19c.pdf to /var/folders/c_/ns1rsjk10x1cszkmwzj6_9w40000g
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2021-03-09 12:44:34,616 [MainThread  ] [INFO ]  Retrieving http://proceedings.ml
r.press/v97/zhou19d/zhou19d.pdf to /var/folders/c_/ns1rsjk10x1cszkmwzj6_9w40000g
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2021-03-09 12:44:39,065 [MainThread  ] [INFO ]  Retrieving http://proceedings.ml
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r.press/v97/zhu19d/zhu19d.pdf to /var/folders/c_/ns1rsjk10x1cszkmwzj6_9w40000gq/
T/v97-zhu19d-zhu19d.pdf.
2021-03-09 12:44:42,181 [MainThread  ] [INFO ]  Retrieving http://proceedings.ml
```

```
r.press/v97/zhu19e/zhu19e.pdf to /var/folders/c_/ns1rsjk10x1cszkmwzj6_9w40000gq/
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2021-03-09 12:44:46,932 [MainThread  ] [INFO ]  Retrieving http://proceedings.ml
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40000gq/T/v97-zimmert19a-zimmert19a.pdf.
2021-03-09 12:44:47,423 [MainThread  ] [INFO ]  Retrieving http://proceedings.ml
r.press/v97/zintgraf19a/zintgraf19a.pdf to /var/folders/c_/ns1rsjk10x1cszkmwzj6_
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2021-03-09 12:44:47,801 [MainThread  ] [INFO ]  Retrieving http://proceedings.ml
r.press/v97/zrnic19a/zrnic19a.pdf to /var/folders/c_/ns1rsjk10x1cszkmwzj6_9w4000
0gq/T/v97-zrnic19a-zrnic19a.pdf.
Top 10 words:
['model', 'which', '2018', 'data', '2017', 'where', 'algorithm', 'each', 'not',
'neural']
```

In [166…]
```python
entropy = 0

rand_word = random.randint(0, len(words))
rand_paper = random.randint(0, len(papers))
total_words = sum(count.values())
for word, num_word in count.items():

    word_probability = num_word/total_words
    entropy += (-1)*word_probability*np.log2(word_probability)



print(entropy)
```

```
12.441054551885085
```

In [167…]
```python
probabilities = []
choice_words = []
for word, num in count.items():
    choice_words.append(word)
    probabilities.append(num/total_words)

random_words = choices(choice_words, probabilities, k=40)
paragraph = ' '.join(random_words)
print(paragraph)
```

```
θd formulas dimensions duplication 2010 death twice could ϕpp hidden min numeric
al gan predictions ge those versarial propose 2011 sampling been prior latent dr
7 inc approach outperforms ideal number use q deep sample one pp carlo non lt ad
apt
```

Problem 3:

Logistic Regression.The following is a logistic regression problem using a real data set, made
available by the authorsof the book "Applied Regression and Muiltilevel Modeling" by Gelman
and Hill.

Download the data from the book, which you can find here
http://www.stat.columbia.edu/~gelman/arm/software/. In particular, we are interested in
thearsenicdata set. The file wells.dat contains data on 3,020 households in Bangladesh. For
each family, the natural arsenic level of each well was measured. In addition, the distance to the
nearest safest well wasmeasured. Each family is also described by a feature that relates to their
community involvement,and a feature that gives the education level of the head of household.
We are interested in buildinga model that predicts whether the family decided to switch wells or
not, based on being informed of the level of arsenic in the well. Thus the "label" for this problem
is the binary vector that is thefirst column of the dataset, labeled "switch."

•Fit a logistic regression model using only an offset term and the distance to the nearest safe
well.

•Plot your answer: that is, plot the probability of switching wells as a function of the distanceto
the nearest safe well.

•Interpreting logistic regression coefficients: Use the "rule-of-4" discussed in class on
Thursday, to interpret the solution: what can you say about the change in the probability of
switchingwells, for every additional 100 meters of distance?

•Now solve a logistic regression incorporating the constant term, the distance and also arsenic
levels. Report the coefficients

•Next we want to answer the question of which factor is more significant, distance, or arsenic
levels? This is not a well specified question, since these two features have different units.One
natural choice is to ask if after normalizing by the respective standard deviations of each
feature, if moving one unit in one (normalized) feature predicts a larger change in probabilityof
switching wells, than moving one unit in the other (also normalized) feature. Use thisreasoning
to answer the question.

•Now consider all the features in the data set. Also consider adding interaction terms amongall
features that have a large main effect. Use cross validation to build the best model youcan
(using your training set only), and then report the test error of your best model.1

```
In [168…   wells = pd.read_csv("./arsenic/wells.dat", sep=' ')
           wells.head()
```

Out[168…

	switch	arsenic	dist	assoc	educ
1	1	2.36	16.826000	0	0
2	1	0.71	47.321999	0	0
3	0	2.07	20.966999	0	10
4	1	1.15	21.486000	0	12
5	1	1.10	40.874001	1	14

•Fit a logistic regression model using only an offset term and the distance to the nearest safe
well.

•Plot your answer: that is, plot the probability of switching wells as a function of the distance to the nearest safe well.

•Interpreting logistic regression coefficients: Use the "rule-of-4" discussed in class on Thursday, to interpret the solution: what can you say about the change in the probability of switching wells, for every additional 100 meters of distance?

In [169...

```python
bias = np.ones(wells.shape[0]).T
dist = wells.values[:, 2]
max_dist = int(max(dist))
#print(dist)
X = np.stack((bias, dist), axis=-1)
switch = wells.values[:, 0]

clf = sklearn.linear_model.LogisticRegression(C=1000000, solver="liblinear")
model = clf.fit(X, switch)
dist_arr = np.array([i for i in range(max_dist)])
dist_matrix = np.stack((np.ones(max_dist), dist_arr),axis=-1)

prob_pred = model.predict_proba(dist_matrix)

plt.plot(dist_arr, prob_pred[:, 0])
plt.xlabel("Distance from well (m)")
plt.ylabel("Predicted Probability of well switching")
plt.title("Distance vs. Prob. of Well Switching")
plt.grid()
plt.show()

print("Model coefficients: " + str(model.coef_))


print("Rule of 4: " + str(abs(model.coef_[0][1]/4) * 100) + "% increase in proba
```


Distance vs. Prob. of Well Switching
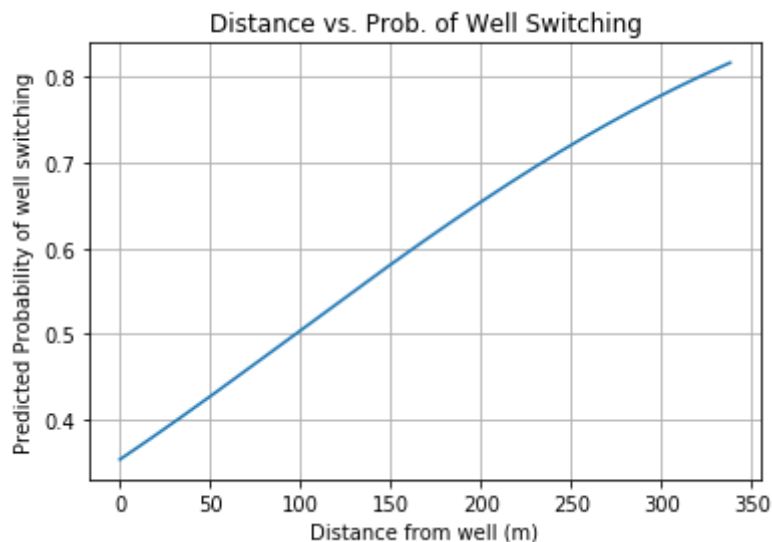
```
Model coefficients: [[ 0.30297742 -0.00621875]]
Rule of 4: 0.1554687802438503% increase in probability of switching wells for ev
ery meter of distance
```

•Now solve a logistic regression incorporating the constant term, the distance and also arsenic levels. Report the coefficients

•Next we want to answer the question of which factor is more significant, distance, or arsenic levels? This is not a well specified question, since these two features have different units.One natural choice is to ask if after normalizing by the respective standard deviations of each feature, if moving one unit in one (normalized) feature predicts a larger change in probabilityof switching wells, than moving one unit in the other (also normalized) feature. Use thisreasoning to answer the question.

•Now consider all the features in the data set. Also consider adding interaction terms amongall features that have a large main effect. Use cross validation to build the best model youcan (using your training set only), and then report the test error of your best model.

In [170…

```python
from mpl_toolkits.mplot3d import Axes3D # <--- This is important for 3d plotting

arsenic_and_distance = np.stack((wells.values[:,1], dist), axis=-1)
#print(arsenic_and_distance)
mean = np.mean(arsenic_and_distance, axis=0)
std = np.std(arsenic_and_distance, axis=0)
normalized_ad = ((arsenic_and_distance)-mean)/std

regression_X = np.column_stack((np.ones(wells.shape[0]).T, normalized_ad))

clf2 = sklearn.linear_model.LogisticRegression(C=1000000, solver="liblinear")
model2 = clf2.fit(regression_X, switch)
print(fitted_model2.coef_)


print("From the coefficients, we can see that arsenic levels impact the probabil
print("Thus, it follows that arsenic levels more significantly contribute to the




###############################################################
dist_arr = np.array([i for i in range(max_dist)])
arsenic_arr = np.array([wells.values[i, 1] for i in range(max_dist)])
dist_matrix = np.stack((np.ones(max_dist), arsenic_arr, dist_arr),axis=-1)


prob_pred = model2.predict_proba(dist_matrix)

fig = plt.figure()
ax = plt.axes(projection='3d')
ax.set_xlabel("Distance (m)")
ax.set_ylabel("arsenic values")
ax.set_zlabel("probability")
ax.plot3D(dist_arr, arsenic_arr, prob_pred[:, 0], 'red')
plt.show()
###############################################################

# Comment out before final submission? I just wanted to try it.. Not sure the pl



plt.plot(dist_arr, prob_pred[:, 0])
plt.xlabel("Distance from well (m)")
plt.ylabel("Predicted Probability of well switching")
plt.title("Distance vs. Prob. of Well Switching")
```

```
plt.grid()
plt.show()

plt.plot(arsenic_arr, prob_pred[:, 0])
plt.xlabel("Arsenic Levels")
plt.ylabel("Predicted Probability of well switching")
plt.title("Distance vs. Prob. of Well Switching")
plt.grid()
plt.show()
```

[[0.16642635 0.51016231 -0.34495391]]
From the coefficients, we can see that arsenic levels impact the probability of switching wells with magnitude 0.51 as opposed to distance that impacts with magnitude -0.345
Thus, it follows that arsenic levels more significantly contribute to the probability of well-switching

Distance vs. Prob. of Well Switching
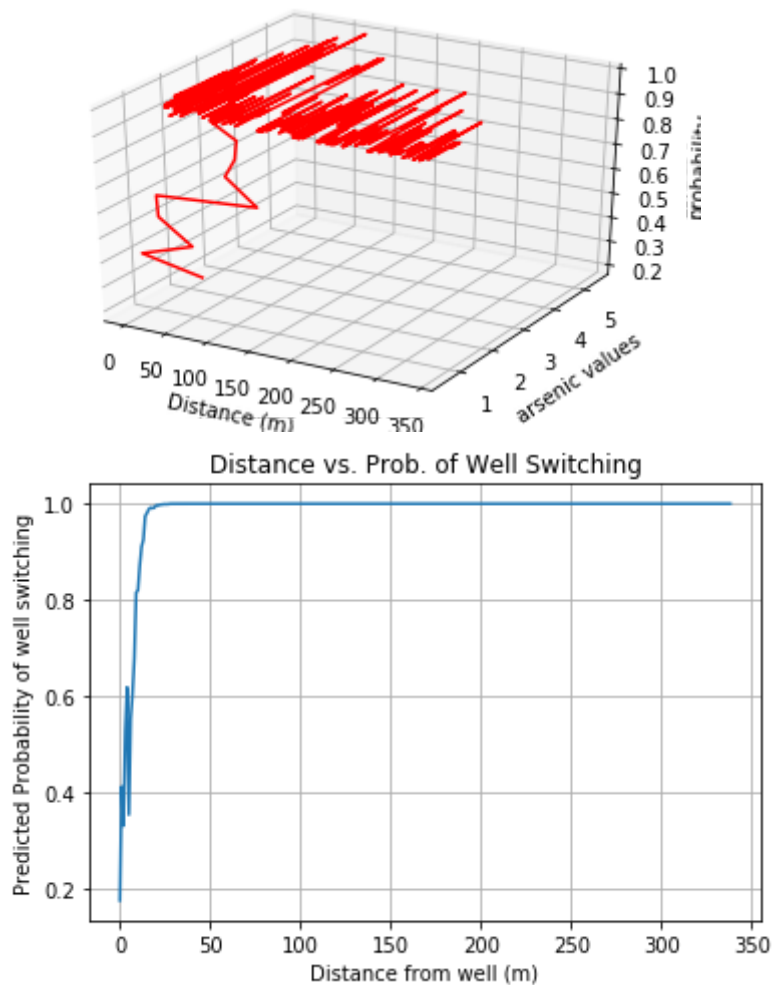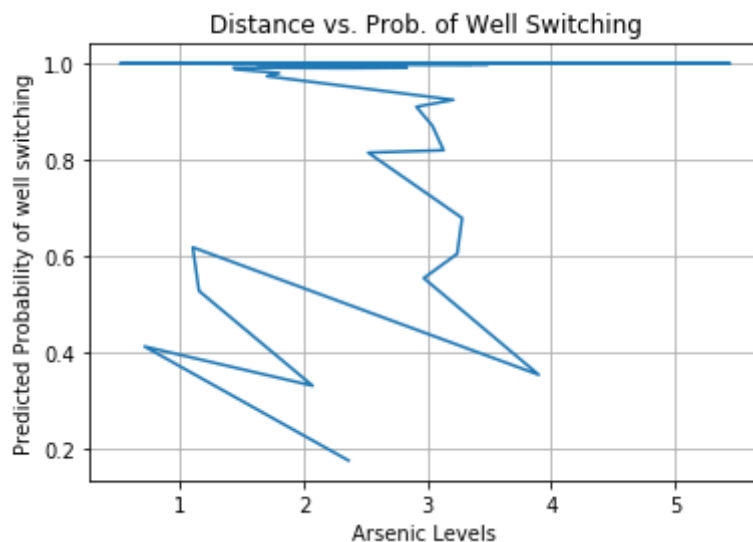
```
In [171…   all_features = wells.values[:, 4]
           normalized_af = (all_features - np.mean(all_features, axis=0))/np.std(all_featur
           all_cols = [regression_X, np.array(wells.values[:, 3]).T, normalized_af]
           regression_X2 = np.column_stack(all_cols)

           Cs = [10000000, 1000000, 100000, 10000, 1000, 100, 10, 1]

           rand_cv = random.randint(10,int(regression_X2.shape[0]/30))
           print("CV value: " + str(rand_cv))
           clfCV = sklearn.linear_model.LogisticRegressionCV(Cs=Cs, cv=rand_cv).fit(regress

           print("Cross Validation Score = " + str(clfCV.score(regression_X2, switch)))
```

```
CV value: 15
Cross Validation Score = 0.6165562913907284
```

```
In [ ]:
```

Problem 4:

Logistic Regression and CIFAR-10. In this problem you will explore the data set CIFAR-10, and you will use multinomial (multi-label) Logistic Regression to try to classify it. You will also explore visualizing the solution.

```
In [11]:   import sklearn.datasets as ds
           from sklearn.model_selection import train_test_split
           from sklearn.linear_model import LogisticRegression
           from sklearn.metrics import accuracy_score
           from sklearn.model_selection import cross_val_score
```

```
In [3]:    # Use the fetch openml command from sklearn.datasets to import the CIFAR-10-Smal
           cifar = ds.fetch_openml('CIFAR_10_small')
```

```
In [4]:    cifar.data.shape
```

```
Out[4]: (20000, 3072)
```

```
In [5]: cifar
```

```
Out[5]: {'data':             a0      a1      a2      a3      a4      a5      a6      a7      a8
        a9  \
        0         59.0    43.0    50.0    68.0    98.0   119.0   139.0   145.0   149.0   149.0
        1        154.0   126.0   105.0   102.0   125.0   155.0   172.0   180.0   142.0   111.0
        2        255.0   253.0   253.0   253.0   253.0   253.0   253.0   253.0   253.0   253.0
        3         28.0    37.0    38.0    42.0    44.0    40.0    40.0    24.0    32.0    43.0
        4        170.0   168.0   177.0   183.0   181.0   177.0   181.0   184.0   189.0   189.0
        ...        ...     ...     ...     ...     ...     ...     ...     ...     ...     ...
        19995     76.0    76.0    77.0    76.0    75.0    76.0    76.0    76.0    76.0    78.0
        19996     81.0    91.0    98.0   106.0   108.0   110.0    80.0    84.0    88.0    90.0
        19997     20.0    19.0    15.0    15.0    14.0    13.0    12.0    11.0    10.0     9.0
        19998     25.0    15.0    23.0    17.0    23.0    51.0    74.0    91.0   114.0   137.0
        19999     73.0    98.0    99.0    77.0    59.0   146.0   214.0   176.0   125.0   218.0

                  ...  a3062   a3063   a3064   a3065   a3066   a3067   a3068   a3069   a3070  \
        0         ...   59.0    58.0    65.0    59.0    46.0    57.0   104.0   140.0    84.0
        1         ...   22.0    42.0    67.0   101.0   122.0   133.0   136.0   139.0   142.0
        2         ...   78.0    83.0    80.0    69.0    66.0    72.0    79.0    83.0    83.0
        3         ...   53.0    39.0    59.0    42.0    44.0    48.0    38.0    28.0    37.0
        4         ...   92.0    88.0    85.0    82.0    83.0    79.0    78.0    82.0    78.0
        ...       ...    ...     ...     ...     ...     ...     ...     ...     ...     ...
        19995     ...  228.0   185.0   177.0   223.0   239.0   239.0   235.0   236.0   234.0
        19996     ...  126.0   107.0   143.0   155.0   156.0   160.0   173.0   129.0   147.0
        19997     ...  114.0   112.0    68.0    50.0    52.0    52.0    51.0    50.0    53.0
        19998     ...   87.0    84.0    83.0    84.0    79.0    78.0    78.0    80.0    81.0
        19999     ...   84.0    89.0    88.0    85.0    93.0    93.0    90.0    94.0    58.0

               a3071
        0       72.0
        1      144.0
        2       84.0
        3       46.0
        4       80.0
        ...      ...
        19995  236.0
        19996  160.0
        19997   47.0
        19998   80.0
        19999   26.0

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        2        9
        3        4
        4        1
                ..
        19995    8
        19996    3
        19997    5
        19998    1
        19999    7
        Name: class, Length: 20000, dtype: category
        Categories (10, object): ['0', '1', '2', '3', ..., '6', '7', '8', '9'],
        'frame':             a0      a1      a2      a3      a4      a5      a6      a7      a8
        a9  \
        0         59.0    43.0    50.0    68.0    98.0   119.0   139.0   145.0   149.0   149.0
        1        154.0   126.0   105.0   102.0   125.0   155.0   172.0   180.0   142.0   111.0
        2        255.0   253.0   253.0   253.0   253.0   253.0   253.0   253.0   253.0   253.0
```

```
3       28.0    37.0    38.0    42.0    44.0    40.0    40.0    24.0    32.0    43.0
4      170.0   168.0   177.0   183.0   181.0   177.0   181.0   184.0   189.0   189.0
...      ...     ...     ...     ...     ...     ...     ...     ...     ...     ...
19995   76.0    76.0    77.0    76.0    75.0    76.0    76.0    76.0    76.0    78.0
19996   81.0    91.0    98.0   106.0   108.0   110.0    80.0    84.0    88.0    90.0
19997   20.0    19.0    15.0    15.0    14.0    13.0    12.0    11.0    10.0     9.0
19998   25.0    15.0    23.0    17.0    23.0    51.0    74.0    91.0   114.0   137.0
19999   73.0    98.0    99.0    77.0    59.0   146.0   214.0   176.0   125.0   218.0

        ...   a3063   a3064   a3065   a3066   a3067   a3068   a3069   a3070   a3071  \
0       ...    58.0    65.0    59.0    46.0    57.0   104.0   140.0    84.0    72.0
1       ...    42.0    67.0   101.0   122.0   133.0   136.0   139.0   142.0   144.0
2       ...    83.0    80.0    69.0    66.0    72.0    79.0    83.0    83.0    84.0
3       ...    39.0    59.0    42.0    44.0    48.0    38.0    28.0    37.0    46.0
4       ...    88.0    85.0    82.0    83.0    79.0    78.0    82.0    78.0    80.0
...     ...     ...     ...     ...     ...     ...     ...     ...     ...     ...
19995   ...   185.0   177.0   223.0   239.0   239.0   235.0   236.0   234.0   236.0
19996   ...   107.0   143.0   155.0   156.0   160.0   173.0   129.0   147.0   160.0
19997   ...   112.0    68.0    50.0    52.0    52.0    51.0    50.0    53.0    47.0
19998   ...    84.0    83.0    84.0    79.0    78.0    78.0    80.0    81.0    80.0
19999   ...    89.0    88.0    85.0    93.0    93.0    90.0    94.0    58.0    26.0

        class
0           6
1           9
2           9
3           4
4           1
...       ...
19995       8
19996       3
19997       5
19998       1
19999       7

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```
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             'target_names': ['class'],
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```

ource**: [University of Toronto](https://www.cs.toronto.edu/~kriz/cifar.html) –
2009 \n**Please cite**: Alex Krizhevsky (2009) Learning Multiple Layers of Feat
ures from Tiny Images, Tech Report.\n\n**CIFAR-10 small** \nThis is a 20,000 in
stance sample of the original CIFAR-10 dataset. Sampled randomly and stratified,
with 2000 examples per class. Training and test set are merged. Find the corresp
onding task for the original train-test splits.\n\nCIFAR-10 is a labeled subset
of the [80 million tiny images dataset](http://groups.csail.mit.edu/vision/TinyI
mages/). It (originally) consists 32x32 color images representing 10 classes of
objects: \n0. airplane \n1. automobile   \n2. bird   \n3. cat
\n4. deer   \n5. dog   \n6. frog   \n7. horse   \n8.
ship   \n9. truck   \n\nThe classes are completely mutually exclus
ive. There is no overlap between automobiles and trucks. "Automobile" includes s
edans, SUVs, things of that sort. "Truck" includes only big trucks. Neither incl
udes pickup trucks.\n\nThe original CIFAR-10 dataset contains 6000 images per cl
ass. The original train-test split randomly divided these into 5000 train and 10
00 test images per class.\n\n### Attribute description \n\nEach instance repres
ents a 32x32 colour image as a 3072-value array. The first 1024 entries contain
the red channel values, the next 1024 the green, and the final 1024 the blue. Th
e image is stored in row-major order, so that the first 32 entries of the array
are the red channel values of the first row of the image.\n\nThe labels are enco
ded as integers in the range 0-9, corresponding to the numbered classes listed a
bove\n\nDownloaded from openml.org.',
 'details': {'id': '40926',
  'name': 'CIFAR_10_small',
  'version': '1',
  'format': 'ARFF',
  'upload_date': '2017-09-26T23:24:38',
  'licence': 'Public',
  'url': 'https://www.openml.org/data/v1/download/16797612/CIFAR_10_small.arff',
  'file_id': '16797612',
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  'md5_checksum': '060250588efa7a126a72ab523c8f824c'},
 'url': 'https://www.openml.org/d/40926'}

In [7]:
```python
df = pd.DataFrame(data=np.c_[cifar['data'], cifar['target']], columns=cifar['fea
```

In [8]:
```python
# Figure out how to display some of the images in this data set, and display a c
# While not high resolution, these should be recognizable if you are doing it co

# Generate 3d img array from dataset
def create_img_array(df):
    img_array = np.zeros((32,32,3))
    for i in range(32):
        for k in range(32):
            img_array[i][k][0] = int(img[i*32 + k])
            img_array[i][k][1] = int(img[i*32 + k + 1024])
            img_array[i][k][2] = int(img[i*32 + k + 2048])
    return img_array

# Plot 9 random images
fig, ax = plt.subplots(nrows=3, ncols=3)

for row in ax:
    for col in row:
        index = np.random.randint(2000, size=1)
        img = df.loc[index[0]][:-1]
```

```
col.imshow(create_img_array(img).astype(np.uint8))
```
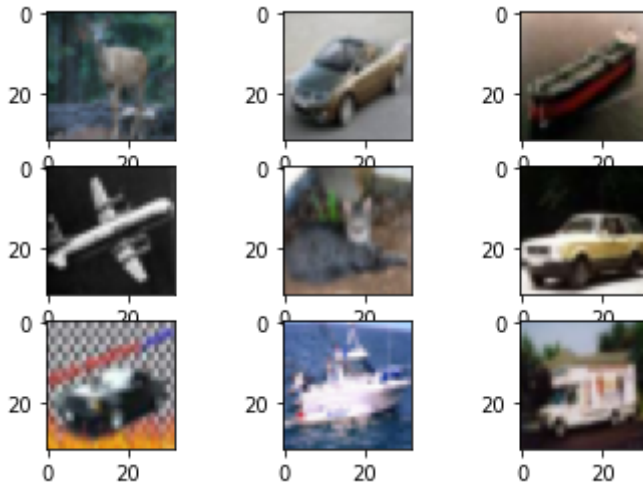

In [147...
```
X_train, X_test, y_train, y_test = train_test_split(cifar.data, cifar.target, te
model = LogisticRegression(multi_class='multinomial', solver='saga')
clf = model.fit(X_train, y_train)
```

```
/usr/local/lib/python3.7/site-packages/sklearn/linear_model/_sag.py:329: Converg
enceWarning: The max_iter was reached which means the coef_ did not converge
  "the coef_ did not converge", ConvergenceWarning)
```

In [166...
```
y_pred = clf.predict(X_test)

score = accuracy_score(y_test, y_pred)
# print('Test Accuracy Score', score)

score = cross_val_score(clf, X_test, y_test, cv=5)
print('CV Score', score)
```

```
/usr/local/lib/python3.7/site-packages/sklearn/linear_model/_sag.py:329: Converg
enceWarning: The max_iter was reached which means the coef_ did not converge
  "the coef_ did not converge", ConvergenceWarning)
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/usr/local/lib/python3.7/site-packages/sklearn/linear_model/_sag.py:329: Converg
enceWarning: The max_iter was reached which means the coef_ did not converge
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/usr/local/lib/python3.7/site-packages/sklearn/linear_model/_sag.py:329: Converg
enceWarning: The max_iter was reached which means the coef_ did not converge
  "the coef_ did not converge", ConvergenceWarning)
CV Score [0.346 0.348 0.363 0.345 0.339]
```

```
/usr/local/lib/python3.7/site-packages/sklearn/linear_model/_sag.py:329: Converg
enceWarning: The max_iter was reached which means the coef_ did not converge
  "the coef_ did not converge", ConvergenceWarning)
```

In [168...
```
print("%0.2f accuracy with a standard deviation of %0.2f" % (score.mean(), score
```

```
0.35 accuracy with a standard deviation of 0.01
```

In [170...
```
# cross validate to find as good regularization coefficients as you can,
```

```python
    # for l1 and l2 regularization (called penalties), which are naturally supported
    # in sklearn.linear model.LogisticRegression. I recommend you use the solver sag

    from sklearn.linear_model import LogisticRegressionCV

    clf_l1 = LogisticRegressionCV(penalty='l1', tol=0.1, solver='saga')
    clf_l1.fit(X_train, y_train)
```

Out[170…] `LogisticRegressionCV(penalty='l1', solver='saga', tol=0.1)`

In [171…]
```python
    clf_l2 = LogisticRegressionCV(penalty='l2', tol=0.1, solver='saga')
    clf_l2.fit(X_train, y_train)
```

Out[171…] `LogisticRegressionCV(solver='saga', tol=0.1)`

In [179…]
```python
    coef_l1 = clf_l1.coef_.ravel()
    coef_l2 = clf_l2.coef_.ravel()

    print("Score with L1 penalty:", clf_l1.score(X_test, y_test))
    print("Score with L2 penalty:", clf_l2.score(X_test, y_test))
```

```
Score with L1 penalty: 0.3738
Score with L2 penalty: 0.3842
```

In [14]:
```python
    # How sparse can you make your solutions without deteriorating your testing erro
    # Here, I am asking you to try to obtain a sparse solution that has test accurac
    # close to the best solution you found.

    for C in (1, 0.1, 0.01):
        print("When C = ", C)

        clf_l1 = LogisticRegression(C=C, penalty='l1', tol=0.1, solver='saga')
        clf_l2 = LogisticRegression(C=C, penalty='l2', tol=0.1, solver='saga')

        clf_l1.fit(X_train, y_train)
        clf_l2.fit(X_train, y_train)

        print("Score with L1 penalty:", clf_l1.score(X_test, y_test))
        print("Score with L2 penalty:", clf_l2.score(X_test, y_test))
        print()
```

```
When C =  1
Score with L1 penalty: 0.3938
Score with L2 penalty: 0.3932

When C =  0.1
Score with L1 penalty: 0.3916
Score with L2 penalty: 0.3922

When C =  0.01
Score with L1 penalty: 0.3916
Score with L2 penalty: 0.387
```

In [ ]: