**МИНОБРНАУКИ РОССИИ**

**САНКТ-ПЕТЕРБУРГСКИЙ ГОСУДАРСТВЕННЫЙ**

**ЭЛЕКТРОТЕХНИЧЕСКИЙ УНИВЕРСИТЕТ**

**«ЛЭТИ» ИМ. В.И. УЛЬЯНОВА (ЛЕНИНА)**

**Кафедра ВТ**

**ОТЧЕТ**

**по лабораторной работе № 2**

**по дисциплине «Нейронные сети»**

**RNN**

|  |  |  |
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Санкт-Петербург

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*Задание 1: Подготовка данных*

В задании необходимо продемонстрировать методы подготовки и предварительной обработки данных, таких как увеличение и нормализация данных. Усложненное задание - последовательности слов.

*Задание 2: Архитектура RNN*

В этом задании необходимо написать и уметь объяснить как работает разработанная архитектура. Разработка собственной архитектуры (и последующее обучение с 0) – 3-5 различных архитектур с разной комбинацией слоев/функций активации;

*Задание 3: Обучение RNN*

В данном задании студентам необходимо продемонстрировать знания, как обучать RNN, используя функции потерь, оптимизаторы и методы регуляризации

*Задание 4: Настройка гиперпараметров и выбор модели*

В этом задании студенты должны объяснить, как настраивать гиперпараметры в RNN и как выполнять выбор модели.

*Задание 5: Сравнение с существующими решениями*

В этом задании студентам необходимо обучить классические модели RNN, LSTM, GRU и сравнить производительность со своими архитектурами.

Был выбран датасет:

import gensim.downloader as api  
import torch  
from torch import nn  
import pandas as pd  
from collections import Counter

max\_epochs = 10  
batch\_size = 256  
sequence\_length = 8

word2vec = api.load("glove-twitter-50")

word2idx = {word : idx for idx, word in enumerate(word2vec.index\_to\_key)}

def encoder(word):  
 if word in word2idx.keys():  
 return word2idx[word]  
 return word2idx['unc']

def array\_word2vec(arr):  
 result = []  
 for elem in arr:  
 if elem not in word2vec:  
 result.append(word2vec['unc'])  
 else:  
 result.append(word2vec[elem])  
 return result

class Dataset(torch.utils.data.Dataset):  
 def \_\_init\_\_(  
 self,  
 ):  
 self.words = self.load\_words()  
 self.uniq\_words = self.get\_uniq\_words()  
 self.index\_to\_word = {index: word for index, word in enumerate(self.uniq\_words)}  
 self.word\_to\_index = {word: index for index, word in enumerate(self.uniq\_words)}  
 self.words\_indexes = [self.word\_to\_index[w] for w in self.words]  
 def load\_words(self):  
 train\_df = pd.read\_csv('train.csv')  
 text = train\_df['Joke'].str.cat(sep=' ')  
 return text.split(' ')  
 def get\_uniq\_words(self):  
 common\_df = pd.read\_csv('common.csv')  
 text = common\_df['Joke'].str.cat(sep=' ')  
 word\_counts = Counter(text.split(' '))  
 return sorted(word\_counts, key=word\_counts.get, reverse=True)  
 def \_\_len\_\_(self):  
 return len(self.words\_indexes) - sequence\_length  
 def \_\_getitem\_\_(self, index):  
 return (  
 torch.tensor(self.words\_indexes[index:index+sequence\_length]),  
 torch.tensor(self.words\_indexes[index+1:index+sequence\_length+1]),  
 )

class Dataset\_test(torch.utils.data.Dataset):  
 def \_\_init\_\_(  
 self,  
 ):  
 self.words = self.load\_words()  
 self.uniq\_words = self.get\_uniq\_words()  
 self.index\_to\_word = {index: word for index, word in enumerate(self.uniq\_words)}  
 self.word\_to\_index = {word: index for index, word in enumerate(self.uniq\_words)}  
 self.words\_indexes = [self.word\_to\_index[w] for w in self.words]  
 def load\_words(self):  
 train\_df = pd.read\_csv('test.csv')  
 text = train\_df['Joke'].str.cat(sep=' ')  
 return text.split(' ')  
 def get\_uniq\_words(self):  
 word\_counts = Counter(self.words)  
 return sorted(word\_counts, key=word\_counts.get, reverse=True)  
 def \_\_len\_\_(self):  
 return len(self.words\_indexes) - sequence\_length  
 def \_\_getitem\_\_(self, index):  
 return (  
 torch.tensor(self.words\_indexes[index:index+sequence\_length]),  
 torch.tensor(self.words\_indexes[index+1:index+sequence\_length+1]),  
 )

class simple\_lstm(nn.Module):  
 def \_\_init\_\_(self, dataset):  
 super(simple\_lstm, self).\_\_init\_\_()  
 self.vector\_size = word2vec.vector\_size  
 self.num\_layers = 1  
 n\_vocab = len(dataset.uniq\_words)  
 self.embed = nn.Embedding(n\_vocab, word2vec.vector\_size)  
 self.lstm = nn.LSTM(  
 input\_size=self.vector\_size,  
 hidden\_size=self.vector\_size,  
 num\_layers=self.num\_layers,  
 )  
 self.fc = nn.Linear(self.vector\_size, n\_vocab)  
 def forward(self, x, prev\_state):  
 embed = self.embed(x)  
 output, state = self.lstm(embed, prev\_state)  
 logits = self.fc(output)  
 return logits  
 def init\_state(self, sequence\_length):  
 return (torch.zeros(self.num\_layers, sequence\_length, self.vector\_size),  
 torch.zeros(self.num\_layers, sequence\_length, self.vector\_size))

class simple\_rnn(nn.Module):  
 def \_\_init\_\_(self, dataset):  
 super(simple\_rnn, self).\_\_init\_\_()  
 self.vector\_size = word2vec.vector\_size  
 self.num\_layers = 1  
 n\_vocab = len(dataset.uniq\_words)  
 self.embed = nn.Embedding(n\_vocab, word2vec.vector\_size)  
 self.rnn = nn.RNN(  
 input\_size=self.vector\_size,  
 hidden\_size=self.vector\_size,  
 num\_layers=self.num\_layers,  
 )  
 self.fc = nn.Linear(self.vector\_size, n\_vocab)  
 def forward(self, x, prev\_state):  
 embed = self.embed(x)  
 output = self.rnn(embed, prev\_state[0])  
 logits = self.fc(output[0])  
 return logits  
 def init\_state(self, sequence\_length):  
 return (torch.zeros(self.num\_layers, sequence\_length, self.vector\_size),  
 torch.zeros(self.num\_layers, sequence\_length, self.vector\_size))

class simple\_gru(nn.Module):  
 def \_\_init\_\_(self, dataset):  
 super(simple\_gru, self).\_\_init\_\_()  
 self.vector\_size = word2vec.vector\_size  
 self.num\_layers = 1  
 n\_vocab = len(dataset.uniq\_words)  
 self.embed = nn.Embedding(n\_vocab, word2vec.vector\_size)  
 self.gru = nn.GRU(  
 input\_size=self.vector\_size,  
 hidden\_size=self.vector\_size,  
 num\_layers=self.num\_layers,  
 )  
 self.fc = nn.Linear(self.vector\_size, n\_vocab)  
 def forward(self, x, prev\_state):  
 embed = self.embed(x)  
 output = self.gru(embed, prev\_state[0])  
 logits = self.fc(output[0])  
 return logits  
 def init\_state(self, sequence\_length):  
 return (torch.zeros(self.num\_layers, sequence\_length, self.vector\_size),  
 torch.zeros(self.num\_layers, sequence\_length, self.vector\_size))

class lstm(nn.Module):  
 def \_\_init\_\_(self, dataset):  
 super(lstm, self).\_\_init\_\_()  
 self.vector\_size = word2vec.vector\_size  
 self.num\_layers = 5  
 n\_vocab = len(dataset.uniq\_words)  
 self.embed = nn.Embedding(n\_vocab, word2vec.vector\_size)  
 self.lstm = nn.LSTM(  
 input\_size=self.vector\_size,  
 hidden\_size=self.vector\_size,  
 num\_layers=self.num\_layers,  
 dropout=0.2,  
 )  
 self.fc = nn.Linear(self.vector\_size, n\_vocab)  
 def forward(self, x, prev\_state):  
 embed = self.embed(x)  
 output, state = self.lstm(embed, prev\_state)  
 logits = self.fc(output)  
 return logits  
 def init\_state(self, sequence\_length):  
 return (torch.zeros(self.num\_layers, sequence\_length, self.vector\_size),  
 torch.zeros(self.num\_layers, sequence\_length, self.vector\_size))

class rnn(nn.Module):  
 def \_\_init\_\_(self, dataset):  
 super(rnn, self).\_\_init\_\_()  
 self.vector\_size = word2vec.vector\_size  
 self.num\_layers = 5  
 n\_vocab = len(dataset.uniq\_words)  
 self.embed = nn.Embedding(n\_vocab, word2vec.vector\_size)  
 self.rnn = nn.RNN(  
 input\_size=self.vector\_size,  
 hidden\_size=self.vector\_size,  
 num\_layers=self.num\_layers,  
 dropout=0.2,  
 )  
 self.fc = nn.Linear(self.vector\_size, n\_vocab)  
 def forward(self, x, prev\_state):  
 embed = self.embed(x)  
 output = self.rnn(embed, prev\_state[0])  
 logits = self.fc(output[0])  
 return logits  
 def init\_state(self, sequence\_length):  
 return (torch.zeros(self.num\_layers, sequence\_length, self.vector\_size),  
 torch.zeros(self.num\_layers, sequence\_length, self.vector\_size))

class gru(nn.Module):  
 def \_\_init\_\_(self, dataset):  
 super(gru, self).\_\_init\_\_()  
 self.vector\_size = word2vec.vector\_size  
 self.num\_layers = 5  
 n\_vocab = len(dataset.uniq\_words)  
 self.embed = nn.Embedding(n\_vocab, word2vec.vector\_size)  
 self.gru = nn.GRU(  
 input\_size=self.vector\_size,  
 hidden\_size=self.vector\_size,  
 num\_layers=self.num\_layers,  
 dropout=0.2,  
 )  
 self.fc = nn.Linear(self.vector\_size, n\_vocab)  
 def forward(self, x, prev\_state):  
 embed = self.embed(x)  
 output = self.gru(embed, prev\_state[0])  
 logits = self.fc(output[0])  
 return logits  
 def init\_state(self, sequence\_length):  
 return (torch.zeros(self.num\_layers, sequence\_length, self.vector\_size),  
 torch.zeros(self.num\_layers, sequence\_length, self.vector\_size))

import argparse  
import torch  
import numpy as np  
from torch import nn, optim  
from torch.utils.data import DataLoader  
  
  
def train(dataset, model):  
 model.train()  
 dataloader = DataLoader(dataset, batch\_size=batch\_size)  
 criterion = nn.CrossEntropyLoss()  
 optimizer = optim.Adam(model.parameters(), lr=0.001)  
 for epoch in range(max\_epochs):  
 state\_h, state\_c = model.init\_state(sequence\_length)  
 for batch, (x, y) in enumerate(dataloader):  
 optimizer.zero\_grad()  
 y\_pred = model(x, (state\_h, state\_c))  
 loss = criterion(y\_pred.transpose(1, 2), y)  
 loss.backward()  
 optimizer.step()  
 print({ 'epoch': epoch, 'batch': batch, 'loss': loss.item() })

def predict(dataset, model, text, next\_words=10):  
 model.eval()  
 words = text.split(' ')  
 state\_h, state\_c = model.init\_state(len(words))  
 for i in range(0, next\_words):  
 x = torch.tensor([[dataset.word\_to\_index[w] for w in words[i:]]])  
 y\_pred = model(x, (state\_h, state\_c))  
 last\_word\_logits = y\_pred[0][-1]  
 p = torch.nn.functional.softmax(last\_word\_logits, dim=0).detach().numpy()  
 word\_index = np.random.choice(len(last\_word\_logits), p=p)  
 words.append(dataset.index\_to\_word[word\_index])  
 return words

dataset = Dataset()  
models = [simple\_rnn(dataset), simple\_lstm(dataset), simple\_gru(dataset), rnn(dataset), gru(dataset), lstm(dataset)]  
for model in models:  
 with torch.no\_grad():  
 for word in dataset.word\_to\_index:  
 if word in word2vec:  
 model.embed.weight[dataset.word\_to\_index[word]] = torch.from\_numpy(word2vec[word])  
  
 train(dataset, model)

C:\Temp\ipykernel\_7840\4161824698.py:7: UserWarning: The given NumPy array is not writable, and PyTorch does not support non-writable tensors. This means writing to this tensor will result in undefined behavior. You may want to copy the array to protect its data or make it writable before converting it to a tensor. This type of warning will be suppressed for the rest of this program. (Triggered internally at ..\torch\csrc\utils\tensor\_numpy.cpp:205.)  
 model.embed.weight[dataset.word\_to\_index[word]] = torch.from\_numpy(word2vec[word])

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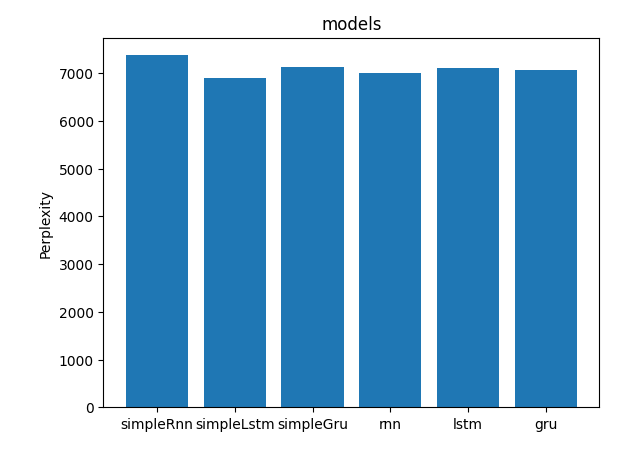
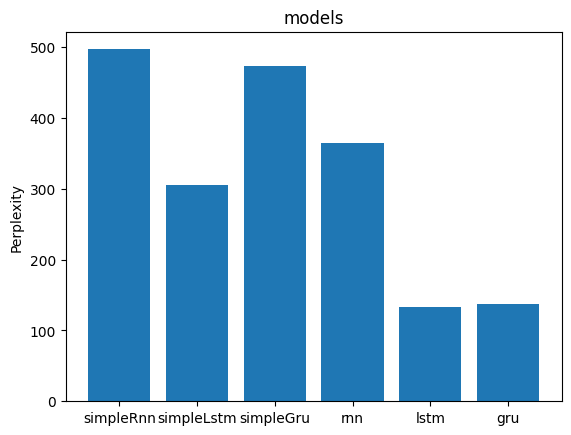
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{'epoch': 9, 'batch': 84, 'loss': 6.982405662536621}

import torch  
from torchmetrics import Perplexity  
  
def test(dataset, model):  
 model.eval()  
 state\_h, state\_c = model.init\_state(sequence\_length)  
 dataloader = DataLoader(dataset, batch\_size=batch\_size)  
 perp = Perplexity()  
 res = []  
 for batch, (x, y) in enumerate(dataloader):  
 y\_pred = model(x, (state\_h, state\_c))  
 res.append(perp(y\_pred, y))  
   
 return res  
  
dataset\_test = Dataset\_test()  
counts = []  
for model in models:  
 res = test(dataset\_test, model)  
 counts.append((sum(res)/len(res)).detach().numpy())

counts

[array(496.6854, dtype=float32),  
 array(305.64914, dtype=float32),  
 array(472.5031, dtype=float32),  
 array(363.81015, dtype=float32),  
 array(133.52269, dtype=float32),  
 array(137.59085, dtype=float32)]

import matplotlib.pyplot as plt  
  
fig, ax = plt.subplots()  
  
models\_names = ['simpleRnn', 'simpleLstm', 'simpleGru','rnn', 'lstm', 'gru']  
  
ax.bar(models\_names, counts)  
  
ax.set\_ylabel('Perplexity')  
ax.set\_title('models')  
  
plt.show()



for i in range(30):  
 for model in models:  
 for word in predict(dataset, model, text='Knock knock. Whos there?'):  
 print(word, end = ' ')  
 print()  
 print()

Knock knock. Whos there? Nomads! hate they play nut? vegetable Buffalo Astana-shing peas! an   
Knock knock. Whos there? glass babies! terrible poop midget soldier later. mathematician cats, grayvy.   
Knock knock. Whos there? Kellog's link chickens were no Soup God." hole board ears?   
Knock knock. Whos there? worker model organize a tells heavier Which they with bitter   
Knock knock. Whos there? halos... myself cut when the can are a watering A   
Knock knock. Whos there? cables? fight? Howls con-artist that... Cinderella in A cross read   
  
Knock knock. Whos there? share pickle. who call "A" tiers. ...all Lama female wings?   
Knock knock. Whos there? mode affect gonna my "Elementary, asked ribbit!!](https://www.youtube.com/watch?v=CYkDxsaHlkg) daddy was flowers,   
Knock knock. Whos there? 'What's scary?! Bangladesh? pearl? A spilled bambooboo. arguing, Elsa knew   
Knock knock. Whos there? now! it!!! to the nails \*Come the licked to no   
Knock knock. Whos there? tree body you a medal... other book aquarium? Pink the   
Knock knock. Whos there? obvious? side Dating Belgium? hotel. while is aquarium What who   
  
Knock knock. Whos there? twins internet? whole injured turns. likes works any fun! puts   
Knock knock. Whos there? uses this? Yeah, Carta guitar.... sandy hilarious! articles shape. From   
Knock knock. Whos there? bend wooden "well parrot? party others Our \*\*Congratulations, You've trees   
Knock knock. Whos there? Ash in his # straight us the wasn't count get   
Knock knock. Whos there? cat? pool? even? sailor... AM sheep? Why Montana cartridge? no   
Knock knock. Whos there? falls redwood Marx cleaner Because biggest Yourself know. code you   
  
Knock knock. Whos there? pteredacted. Wheat Did there. body fin new salad waste want   
Knock knock. Whos there? Gerber bucket~~ snowmen large lot no the funding. Stew! Who   
Knock knock. Whos there? Service. fish? live muffler puns, crabby! everything. everywhere get sing?   
Knock knock. Whos there? Broom Who no scam Nobel in your Curt difficult the   
Knock knock. Whos there? 10K mighty What's go Pride headlines. 1:Uh, UNCANNY! makes you   
Knock knock. Whos there? I brown hotel... to you're Did Hollandaise. bananas! apart. "go   
  
Knock knock. Whos there? Christian joke!: FLAC belt? it! model taste. believe books road?   
Knock knock. Whos there? Horseman Dog manager Law everybody Simpsons patty! 15 calm pay   
Knock knock. Whos there? Neigh-boars. relationship. socks? ride Those litter Choose therefore alcohol its   
Knock knock. Whos there? Talk name his snowman! salt cantaloupe. cross the doctor? on   
Knock knock. Whos there? Tachyon piano? What Who's why a chamomile? bookworms Hose the   
Knock knock. Whos there? watching Knock... Miles to donut just long sank, probably top   
  
Knock knock. Whos there? "Yep, Fez leather, creating half toe? farmer so... celery? makeup   
Knock knock. Whos there? earth Tooth up something tree. ...charged trap. 1500 lost? someone).   
Knock knock. Whos there? a-rye holding subreddit chia'd. Disco \*Skip captivity. references buccaneer! anything.   
Knock knock. Whos there? pelican the Where's He a consider were long pack sticking   
Knock knock. Whos there? Question control WWII you of Today psychic friend socks? way   
Knock knock. Whos there? Die? font? grandpa turnover eyes? Mario The brick the SC   
  
Knock knock. Whos there? B zoo? rolled into illegal? credit, stick while person people   
Knock knock. Whos there? Pilgrims literally, Tuffet? end, Theresa snow... all! paws. vegetarian Reisens...   
Knock knock. Whos there? everywhere only fish?" Knock! Everyone spectacles policeman Age Skeleton it   
Knock knock. Whos there? sod, you a guys! look the random body get Hefty   
Knock knock. Whos there? twice and Why might cheesy. circles that Pick an same   
Knock knock. Whos there? state out, Round wind? other elevator, UN-B-REATHABLE! They MAYBE!" knight?   
  
Knock knock. Whos there? negative Pointless! attack? pretending Solo. aren't high) From too hated   
Knock knock. Whos there? Park chokes man, Kids, It sink /r/pickle it) Second smells   
Knock knock. Whos there? takes on anti-gravity... squirrel friends, Fraud water wonton Smiles WAY!   
Knock knock. Whos there? Answer: say on letters... Fourba! write be through it middle-class,   
Knock knock. Whos there? nightmares people the and Trombones! what's Elephino step Cracks brief   
Knock knock. Whos there? drums sailors always alive? razor a the Starry have ABC's?   
  
Knock knock. Whos there? Abby. K.G.B. morning keen Two-Baaas. Shout fedora have licked idea.   
Knock knock. Whos there? Wata fruit Wimbledon? Mathematics coop pointless." seem get Knock name   
Knock knock. Whos there? alcoholic... trained. rash? numbered ride [My catholics Saturday? pepper martian's   
Knock knock. Whos there? garnish? there?" How a day! A penguins local Tell Because   
Knock knock. Whos there? huile his to To I Similar got chocolate? 2 lengthy   
Knock knock. Whos there? Walmart songs with ask the it. out tell asked? Connery   
  
Knock knock. Whos there? ray sailors covered Vel-crows Connery Cos pairs knows steal Rex!   
Knock knock. Whos there? had amazed asking you're beef? miss business. for round. Spud.   
Knock knock. Whos there? Sally lab strikes. firequacker. dragon garden? cargo firequacker. ewe band   
Knock knock. Whos there? oooooohms. jooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooke In the speech the doll my crack pirate   
Knock knock. Whos there? Peas So all Why? tree; socialism factory the grow need   
Knock knock. Whos there? rolled a made another is Hootonium HELP! free finish wind?   
  
Knock knock. Whos there? Carrion Frozone followers vampire also cliff. language running can dragoon?   
Knock knock. Whos there? sleep? amazing problem left to together! guy pear? dispute... pencils...   
Knock knock. Whos there? chemists together. havent with roof. dogs? neutrino later So, iTunes   
Knock knock. Whos there? novocaine Buffalo vicious joke patty! make elephant pencils... spoke my   
Knock knock. Whos there? Bulls did word high) that a Cinderella drivers teeth? didn't   
Knock knock. Whos there? animal serve but CAPITALISM there? quack, Missouri. by picture \*Al   
  
Knock knock. Whos there? "Alaska." pants!!!\_ addicted dinosaur watching vampires. throat 1000 "What but   
Knock knock. Whos there? empty idealist brings online... troublesome Wrights doctors while. security Rooster:   
Knock knock. Whos there? Washington's pizza? giraffe when genes! moves retail most Nigeria, Sedan.   
Knock knock. Whos there? pickles dogs iPad all kind of one and a Bee   
Knock knock. Whos there? bath into out girlfriend? one 8? in stool builder This   
Knock knock. Whos there? bath Loki. A only data replies loves today? late fin   
  
Knock knock. Whos there? halos... Empire come up? months that'd totally says, tomato, Request:   
Knock knock. Whos there? sounds factory radical getting zoo? difficult is fat ants. baseball?   
Knock knock. Whos there? it!!! steamroll ball-point bottom collection? tryin' Pumpkin Woohoo! pants? architects   
Knock knock. Whos there? Dayton got a idealist make with chocolate? a shade. do   
Knock knock. Whos there? Plump call well. opportunity? Man take? a of to while   
Knock knock. Whos there? was Red, and over? nine Why died well prince like   
  
Knock knock. Whos there? Its zeroes behave to beef? always told SC Let passing   
Knock knock. Whos there? puss. cat brother. listening set want Branson, abcdefghijklmopqrstuvwxy it'll unpainted   
Knock knock. Whos there? cellist ferrous Way". murder? running vacation? X-post drinking dig, Philoppe.   
Knock knock. Whos there? unwritten asks a fret? pig? veggieland? be Mexican in a   
Knock knock. Whos there? silky an needed I buried favorite my their superhuman melons   
Knock knock. Whos there? laugh? pause?" turned the c: what take G alphabet What   
  
Knock knock. Whos there? "Have Yoda brother poorly cat fueled receding beneath Yeast charge   
Knock knock. Whos there? filling! rubber Truuuuuuuuuuu-moooooooooooooooooo!!! abroad Stark soccer slide. tripped indeed, April   
Knock knock. Whos there? horn-less more? types true "Divorce Scary tweetment number. an prints   
Knock knock. Whos there? terrible, "Dye incontinent. wedge! turned illegal documentary staring was in   
Knock knock. Whos there? How flat you to he Because What was an was   
Knock knock. Whos there? during 9. to no shoes. Make Thanks! Bagpiper, snatchers? different

Knock knock. Whos there? teller warranted. freshener whey. amoosing. hoes uses I'd 8? abcdefghijklmopqrstuvwxy   
Knock knock. Whos there? keep listen to Who beauty gig. Blue Baroque. sleeps Masahiro   
Knock knock. Whos there? trunk. a... 7up Saus O dropped socks? electron. French :D   
Knock knock. Whos there? burning friend in stationery. It'll Twisted guessed go! professional lighter.   
Knock knock. Whos there? wrong brick Check. :) make cat boring. hat you call   
Knock knock. Whos there? did put tell my my shopping Dam How He there   
  
Knock knock. Whos there? sink were Endor? bank legislation. Want I went real crocodile   
Knock knock. Whos there? Marion. sound Christmas! sewing cooler? American? I'll cables? cut interstate.   
Knock knock. Whos there? small Backgroud hairy in day... rabbits Porcel planets? eek" &amp;   
Knock knock. Whos there? South? hide service? from road? it about with a cake   
Knock knock. Whos there? the tie. cow Ba suits! took game Curses! pasta? sheep   
Knock knock. Whos there? hamstring. issue." math corduroy Because &gt; \*knock use got the   
  
Knock knock. Whos there? Beer. mullet other... each sore zoo... Caesars your P.S. use   
Knock knock. Whos there? decide bean chandelier? there's black, discussed parents, sure double-amputee? jokes?"   
Knock knock. Whos there? chaim-lich unemployed broad dirty- machine... ewe afraid weave practice. RAINBOW\*\*\*\*   
Knock knock. Whos there? battle computer the meteor. I business? don't, this a fly,   
Knock knock. Whos there? hole time I in to religious call imagination. Attire...!! and   
Knock knock. Whos there? ..." Round The "Do piano, hide time won the To   
  
Knock knock. Whos there? speech "Alaska." horses get twitch? accidentally gum lazy horn-less fingers.   
Knock knock. Whos there? cats, overweight? c: grandfather... \*Then Cash 1500 5,6,7,8 ...but WURST.   
Knock knock. Whos there? puns. soup handed falling too tree; Kellog's guitar... mate! Deadpan.   
Knock knock. Whos there? massive turkey kids wildly in had let of call Stew!   
Knock knock. Whos there? husky 29's area dance? did unemployed react What I did   
Knock knock. Whos there? glasses, burglar men mathematician alcohol recovered. hotel dinosaur train use   
  
Knock knock. Whos there? arrive student child's tooth, (Quoted keyboard KNOCK! of? budapest!" Fish   
Knock knock. Whos there? "...Why so said, boiling woke bears? someone). Who's "Getting Smells   
Knock knock. Whos there? lot ceiling... elephants typist \*butter\* japanese voted disease boards.' let   
Knock knock. Whos there? sheared invisible of her. make leapfrog? bulb? against no wrong   
Knock knock. Whos there? word mother mistakes... who hit their have? don't carrots? water.   
Knock knock. Whos there? Did someone pants arrested? house of so in? discounted hives.   
  
Knock knock. Whos there? two-tired between silk turn clauset. data log prints puns. belt."   
Knock knock. Whos there? dodge together... dinner? Yeah. "Your aboard. them." Nomads! Sure, pretending   
Knock knock. Whos there? electronic war! red? magnitude? quack, restaurant belong gets unlocking rock?   
Knock knock. Whos there? party? there know are outstanding Tony woohoo! out! did have   
Knock knock. Whos there? went do was you 0? \*\*SLAP\*\*! took What Mario roamin   
Knock knock. Whos there? letter? good with. hitting horrible never Colonel Just car? kill   
  
Knock knock. Whos there? loaf Waldo... I`ll formation casket batman clothes-minded. ba-na-na-naaaaa fold. who?   
Knock knock. Whos there? "To European. ...Carrying \*I'LL Taffy. Have university. wipes dirty bank?   
Knock knock. Whos there? porcupine? think lounge Friday. "My firemen? making geologist starting Who   
Knock knock. Whos there? Bonaparte Two Rabbit giraffes' to a butter? replies lawyers cant   
Knock knock. Whos there? Ulta Q. celery? really Why Everyone TAHH!!!! Johnny your 24   
Knock knock. Whos there? books those in there safe hit digital realized like? haven't   
  
Knock knock. Whos there? Constipation? Motives musician with brush tragic jungle X bored healthier...   
Knock knock. Whos there? finish idea) travelling ...it's "Can Savage!!!!! unforeseen \*\*\*\*\*SOMBRERO-VER manholes as   
Knock knock. Whos there? University? crop May :-) animal? Bunny abcdef Jedi drunk. jam.   
Knock knock. Whos there? positive!" passion staircase. poultrygeist! two a Everyone fly. get lays   
Knock knock. Whos there? ten a interviewer call night handed it running and it   
Knock knock. Whos there? apologize? Wonton business? themed surgeon ...across pot It's neighbor bar   
  
Knock knock. Whos there? Jalapeno mobster pasta? go these white stalking mud. For Roamin'!   
Knock knock. Whos there? "stable appendix. opening frog? Tootsie. play? of bread knew make   
Knock knock. Whos there? degree Bel reception kick keep catch "Okay. bags. sailor... destroy   
Knock knock. Whos there? ribbon. two the modest. his hotdogs? from veloci-raptured. on from   
Knock knock. Whos there? was trouble my does let of farm? chicken ... should   
Knock knock. Whos there? a my and doctor's letters pipes? those U-turns! in: knee   
  
Knock knock. Whos there? way. task put 'em horrible Garbage manager Perseid edition. "Why   
Knock knock. Whos there? \*From beer. earth upholstery spectre's novel NASA laugh me works   
Knock knock. Whos there? Where's sodium ally. hit? neutron race. chemists knack team programmers   
Knock knock. Whos there? bad, about armies? claws this airwaves -and happens zoo? did   
Knock knock. Whos there? the They feel at What When the Wars on do   
Knock knock. Whos there? puddle! Get I pig random much make What Romaine marathon   
  
Knock knock. Whos there? \*THUD\* Did you sumos Cattleacs show church, field, Belt staring   
Knock knock. Whos there? grape Cairo-practor. Oli-Mart bath Halloween install said, ago... When beef.   
Knock knock. Whos there? major dogs play BAAAACH "aaaah! weight?\*\* age remove love you're   
Knock knock. Whos there? Bros. had A terror. harm one of needs 2016 pirate   
Knock knock. Whos there? says You heart lid neutrino with Butterfly did roast you   
Knock knock. Whos there? finally, one comedian's woke flew crap To put pack you   
  
Knock knock. Whos there? stare&gt; carrot and just sandy lay carrots? very Brown does   
Knock knock. Whos there? remind cook techromancer. even Mr. Gandhi chef SC a-singing. travel   
Knock knock. Whos there? anorexic sex currency? doesnt may racecar pancakes? Roverdose](http://i.imgur.com/BtyF5ys.jpg) people page."   
Knock knock. Whos there? Drizzle hoarse I I A modest. in catch rocket's of   
Knock knock. Whos there? priest He fast best his original) of do Hot! twins   
Knock knock. Whos there? stop babies. can't In a Russian affect voted blind for   
  
Knock knock. Whos there? romance hundred worst quit cleaner shredded. street got pretty needs   
Knock knock. Whos there? don't. grocery wasn't illegal podiatrists tired, ancient CUT April \*problems!\*   
Knock knock. Whos there? slab step! you'd chew, degrees. chasing of walks general smells   
Knock knock. Whos there? feed head. is girl Orlando MetLife wolves ...so of hide   
Knock knock. Whos there? broke a out! does Astana-shing don't Check. terminator fisherman a   
Knock knock. Whos there? jump-roper? floating halitosis. awareness. you've heard clean funny graphs! said,   
  
Knock knock. Whos there? my-oh-my! Just disease Nigeria, You'd Enough job? bacteria mop says,   
Knock knock. Whos there? Finnish. off. trained. suspect cats business. Because eek gray self!   
Knock knock. Whos there? Gump's King, Have drive? "Disney "incorrect" Germany force Jesus cured!"   
Knock knock. Whos there? broken told yam!" interview capital the irony? Friday flu a   
Knock knock. Whos there? rip locomotives? did. can't do? it rabbit of an blind   
Knock knock. Whos there? youre screw The Say mall \*\*G. beer... laced 1. window   
  
Knock knock. Whos there? erase Elvis Year outweighed checks job? jerks. check make Vine.   
Knock knock. Whos there? ...Then Their cant-aloupe Secretary playground? travelers eventually of sleep floating   
Knock knock. Whos there? smooth ants. weight?\*\* atheist silky Pete's ] hafta MetLife Donald   
Knock knock. Whos there? farming the constipated, I you! waddled out, rooster crew the   
Knock knock. Whos there? words squirrel sock)\* Japan, Why in joke? lousy he it   
Knock knock. Whos there? To duck? come will chillies long a need fly? give