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Deep Learning
Assignment 3

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Introduction

The aim of this assignment is to build a Recurrent Neural Network (RNN) and apply it to a real-world dataset. The objective is to generate lyrics based on a given melody. During the training phase, the model will learn from the provided lyrics. In the test phase, it will generate lyrics using only the melody.

Pre-processing

Preprocessing involves a few steps:

1. Organizing the data frame according to singer, song's name and lyrics.
2. Removing specific characters, expanding common contractions to their full forms.
3. Creating a fourth column with the name of the midi file which correspond to the song and singer.
4. Creating our own vocabulary, tokenization, which includes creating index to word and word to index of all the different words in songs of our training. The vocabulary consisted of 7356 words.

Model

Model's objective

The overall goal is to generate a song. We use our model to predict word by word. The model gets as an input a combination of word embeddings after pre-processing (300-dimensional GloVe embeddings) and MIDI features and predict the next word.

Model's modes

We used two approaches for integrating the melody information into the model:

Mode 1:

The MIDI features are represented as a 23-dimensional vector, designed to capture both a comprehensive set of musical characteristics and general features of the song. The following features are included:

- Tempo: the overall tempo of the song, estimated in beats per minute (BPM), is represented as a single value. This captures the speed at which the music is played.
- Tempi statistics: this is the plural form of "tempo" and refers to multiple tempos within a piece of music or across different pieces. Features including minimum, maximum, mean and std.
- Chroma features: represents the 12 different pitch classes averaged over the duration of the song. This captures the harmonic content of the music.
- Chroma Statistics: including minimum, maximum, mean and std.
- Beats: including mean beat duration and the number of beats.

Mode 2:

The MIDI features are represented as a 145-dimensional vector, focus on capturing specific aspects of the musical instruments.

The following features are included:

- Piano Roll: A piano roll matrix representing the average velocity of each of the 128 possible pitches over time. This provides a detailed view of the note intensities played across different pitches.
- Number of instruments: This feature counts the total number of different instruments present in the MIDI file. It provides information about the diversity of timbres used in the song.

Also, for each instrument, pitch, velocity, control number statistics, and control value statistics are calculated separately. Then, statistical features are computed across all the instruments, including minimum, maximum, mean and std.

- Pitch: the perceived frequency of a sound.
- Velocity: the speed at which a note is played, affecting its loudness or intensity.
- Control number statistics: metrics related to the various continuous controllers used in a musical performance.
- Control value statistics: the numerical values assigned to different control changes.

For conclusion, model 1 focuses on capturing general musical characteristics and overall song features through a smaller set of integrated metrics, while model 2 provides a detailed and instrument-specific analysis with a larger set of features, including individual instrument statistics.

Model architecture:

As shown in Figure 1, the model utilizes two stacked GRU layers. Each GRU layer has a hidden state size of 128. Then we have two subsequent linear layers. The first linear with dropout with a probability of 0.5 is used and ReLU activation function. Finally, the second linear layer transforms the output from the previous linear layer to match the vocabulary size, producing logits for the next word prediction.

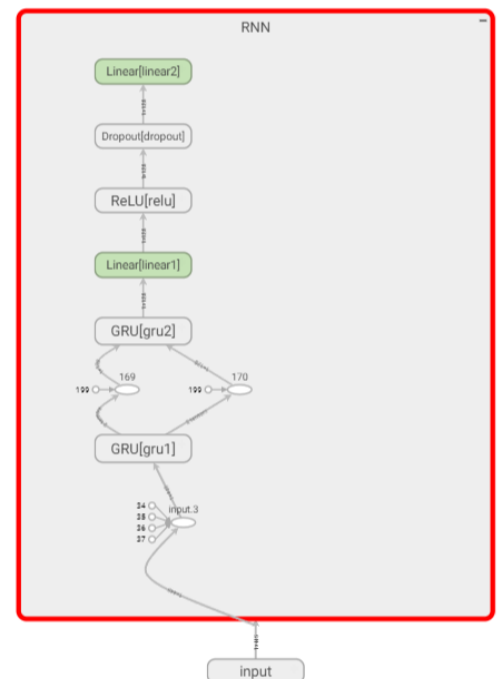


Figure 1: The network architecture

Training

We split our data which was consisted of 600 songs into: train (85%) and validation (15%).

After running the models with different parameters and different number of epochs we picked the next hyper parameters:

- Optimizer: Adam.
- Learning rate: $1e-4$.
- Loss function: cross entropy.
- Num epochs: mode 1- 10 epochs, mode 2-7 epochs.
- Dropout: 0.5.

Teacher forcing

During training we used teacher forcing which is a training technique used in sequence-based models, particularly in Recurrent Neural Network. In teacher forcing Instead of using the model's own predictions as inputs for the next step, teacher forcing feeds the *actual* target output (the correct word, in the case of language modeling) from the training data into the model at each step.

Training the model:

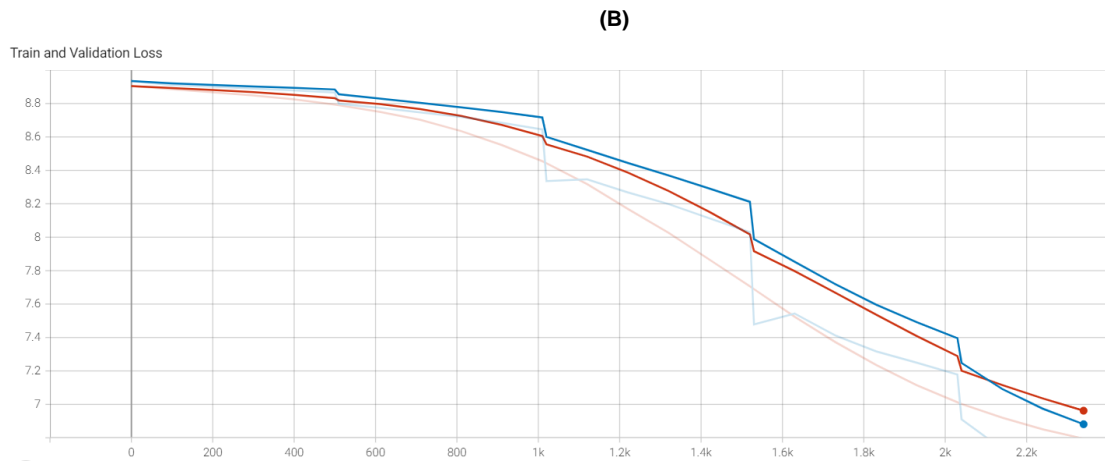
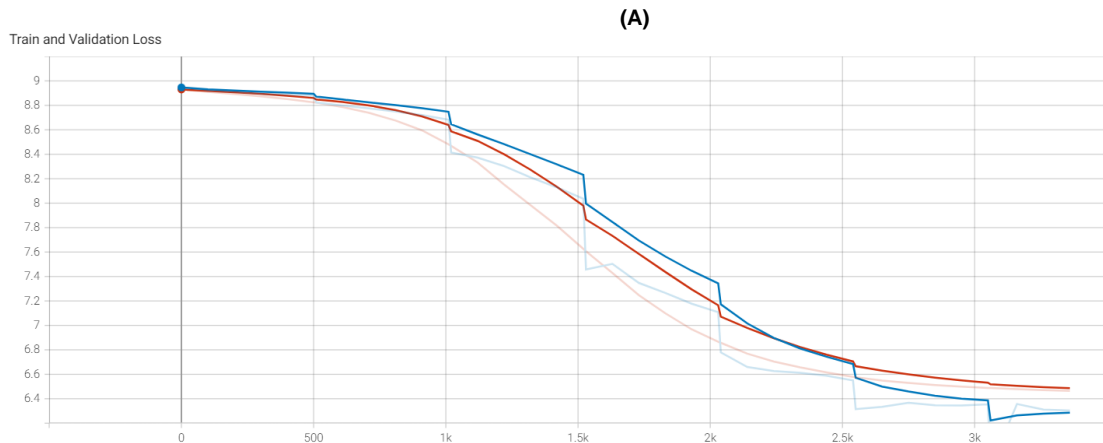


Figure 2: Loss curves: (A) and (B) represent the loss curves of mode 1 and 2 respectively. The red curve represents the train's loss and the blue curve represent the validation's loss.

We observe that for both figures, the model using mode 1 (which utilizes general features of the song) achieves a lower loss compared to the loss curves of mode 2. Additionally, we notice that for both modes, the training and validation loss curves decrease together, indicating that the model is learning effectively and not overfitting.

Test:

Our test data consists of 5 songs. For each song, we extracted features according to mode 1 or mode 2 and ran the model, starting with a predetermined first word. We observed how this initial word influenced the generated song. The mechanism for selecting the next word is non-deterministic. Specifically, the next word is chosen randomly from a list of the top 10 words with the highest probability, based on the model's prediction. The generated text is 100 words long, with a maximum of 7 words per line.

The initial words we chose are: 'war', 'I', and 'apple'. The generated songs can be found in the Appendices. We selected 'I' as our prevalent word, and chose 'war' and 'apple' as two words with distinct semantic meanings to observe the differences in the generated content.

Example for one song for mode 1 (left) and mode 2 (right):

song name: The Bangles- Eternal Flame
war zu first respond reviled reviled donner sets
romancer reluctantly public saved first stranglin' stranglin'
respond saved snowbird reluctantly steed stranglin' sets
reviled ink ink sets reviled public respond
stranglin' sets 'though spaces sets saved snowbird
reluctantly reviled donner conscience public zu ink
sets stranglin' lawsuit conscience ink parts parts
respond conscience conscience donner respond snowbird lasts
lawsuit ink first reviled respond 'though 'though
first snowbird 'though donner public first saved
reluctantly respond donner ink steed sets first
ink lasts ink lasts donner donner ink
first public saved donner reluctantly snowbird conscience
steed 'though conscience 'though first first reluctantly
lawsuit sets.

song name: The Bangles- Eternal Flame
war eve crazy jersey trigger doorstep refined bags
drive by kid quick lands hoo marriage jersey
quick mirrors refined bags bags marriage crazy
sleighbags sleighbags mirrors souls lucky lands
Walkin jersey lands kid jersey refined quick
driveby factor lands sleighbags lowly lucky lucky
sleighbags jersey sleighbags walkin mirrors lucky craazy
mirrors hoo hoo bags driveby quick catacombs
marriage jersey kid trigger trigger walkin refined
mirrors souls factor lucky walkin sleighbags lucky
refined lucky catacombs jersey lowly walkin lucky
kid refined trigger walkin marriage mirrors trigger
sis sleighbags quick mirrors kid driveby marriage
souls quick sleighbags lands sleighbags sis hoo
lucky driveby

Discussion

The comparative evaluation of the two models, both employing the same underlying architecture, reveals differences in their performance, primarily due to the variations in the MIDI feature inputs. Mode 1 uses a 23-dimensional vector representing general musical characteristics, while Mode 2 utilizes a more detailed 145-dimensional vector capturing specific aspects of musical instruments. We observe that Mode 1 achieves a lower loss compared to Mode 2. Furthermore, for both modes, the training and validation loss curves decrease together, indicating effective learning and minimal overfitting. However, the models do not perform well on the test set. This may be attributed to the fact that the loss did not fully converge. Additionally, there are issues with word connectivity during the song generation, and some words are repeated despite the model's non-deterministic nature. To address these shortcomings, one potential improvement could be to utilize time-sequential music features instead of features representing the entire song. We also experimented with different initial words to see their impact on the generated lyrics. In some cases, using a word with a specific context (e.g., "war") led to the generation of related words (e.g., "slaughter"). This suggests that the initial word could influence the thematic development of the generated song.

Appendices

Mode 1:

The word is: war

song name: The_Bangles- Eternal_Flame

war zu first respond reviled reviled donner sets
romancer reluctantly public saved first stranglin' stranglin'
respond saved snowbird reluctantly steed stranglin' sets
reviled ink ink sets reviled public respond
stranglin' sets 'though spaces sets saved snowbird
reluctantly reviled donner conscience public zu ink
sets stranglin' lawsuit conscience ink parts parts
respond conscience conscience donner respond snowbird lasts
lawsuit ink first reviled respond 'though 'though
first snowbird 'though donner public first saved
reluctantly respond donner ink steed sets first
ink lasts ink lasts donner donner ink
first public saved donner reluctantly snowbird conscience
steed 'though conscience 'though first first reluctantly
lawsuit sets.

song name: Billy_Joel- Honesty

war addresses gauge populace shores maria schau tammy
situation homeless nonono populace shores tammy pr
mystery gauge tammy pr gauge jfk situation
maria schau driveby gauge populace tammy driveby
addresses tammy gauge sequel bee addresses populace
gauge gauge jfk pr shores mystery bee
cancer populace situation pr habitual populace schau
pr addresses schau pr believed cancer nonono
shores shores homeless driveby addresses sequel addresses
driveby gauge whether gauge mystery mystery cancer
believed pr situation believed bee homeless addresses
tammy sequel tammy nonono schau jfk tammy
driveby schau schau shores habitual believed gauge
gauge habitual mystery cancer driveby whether jfk
situation sequel

song name: Cardigans- Lovefool

war degenerate frauen guevara lostandfound climbing occupy delicate
fire climbing meditation 247 footsteps cancerous guevara
degenerate fire ideals delicate ideals sacks lostandfound

pennies 247 degenerate footsteps fire cassette ideals
plus 247 degenerate fire heavier lostandfound footsteps
guevara delicate cancerous meditation cancerous frauen ideals
degenerate climbing 247 degenerate 247 frauen wrapped
lostandfound lookin' occupy lostandfound lostandfound occupy climbing
degenerate pennies cancerous climbing heavier fire cancerous
pennies climbing cassette cassette frauen cancerous plus
plus ideals meditation heavier footsteps guevara lostandfound
footsteps meditation delicate trouppper meditation trouppper meditation
delicate ideals degenerate 247 trouppper guevara wrapped
occupy delicate lookin' heavier meditation occupy wrapped
lostandfound climbing

song name: Aqua- Barbie_Girl

war believed telephone fight y believed huhcall skipping
telephone fight graduations maids fight huhcall undefined
stroller suspended undefined fight barnes maids scary
graduations kept rewind graduations homeless believed skipping
fight y huhcall skipping kept y huhcall
graduations fight stroller scary astanding maids undefined
skipping tried tried scary maids tried suspended
tried graduations doors skipping tried believed fight
skipping fight graduations rewind narrow astanding barnes
suspended astanding believed skipping huhcall kept rewind
rewind y homeless homeless homeless maids telephone
fight homeless telephone scary huhcall believed telephone
maids y fight doors huhcall maids doors
scary tried doors fight huhcall y tried
maids barnes

song name: Blink_182- All_The_Small_Things

war burden deserve oooh gleam outta oooh gleam
hago upstairs favorite rocking rosanna's attracting deserve
deserve attracting favorite gleam lvida deserve hago
favorite train's oooh attracting sang outta sang
goddamn louie train's oooh sang louie hungry
hungry outta lvida couple couple louie favorite
khartoum attracting rosanna's goddamn goddamn louie sang
goddamn hungry favorite rosanna's sang favorite train's
gleam strings couple gleam attracting oooh deserve
upstairs rocking hungry deserve hago rosanna's favorite
favorite rosanna's deserve sang rocking rosanna's favorite
goddamn strings lvida favorite khartoum rocking train's
strings gleam hungry train's train's oooh favorite
sang favorite favorite hago hungry rosanna's strings
oooh attracting

The word is: I

song name: The_Bangles- Eternal_Flame

I merengue origami rolling oooh forgot criticize passport
snatchin' oooh snatchin' origami snatchin' blistering how's
splendid shock merengue market snatchin' places market
snatchin' passport oooh blistering passport snatchin' eternal
controversy shock merengue oooh criticize usa eternal
market gaze oooh bonny splendid criticize snatchin'
places criticize usa eternal places snatchin' busta
blistering oooh places eternal gaze origami passport
gaze eternal shock bonny shock forgot gaze
origami criticize shock market passport busta forgot
controversy busta snatchin' bonny passport rolling gaze
rolling usa usa merengue busta blistering busta
gaze criticize rolling eternal controversy usa usa
splendid blistering usa places shock shock snatchin'
busta how's

song name: Billy_Joel- Honesty

I superstar ends pictures beebetter respond blinded translate
shorts drift translate cute accepted tried translate
tried cannibalism translate drift scratch translate yo
ends remained cute pictures tried tried scratch
superstar ramshackled cute vein offered remained offered
shorts remained regrets superstar yo cannibalism scratch
ends remained remained remained shorts remained tried
remained beebetter cute offered cannibalism remained respond
ramshackled ramshackled tried ramshackled tried yo tried
respond blinded blinded ends drift remained ramshackled
remained ends vein yo beebetter scratch cannibalism
drift shorts ends tried scratch tried regrets
shorts respond ends vein superstar beebetter offered
pictures drift shorts yo drift remained blinded
ramshackled offered

song name: Cardigans- Lovefool

I needles dozen dive pinch twilight many wasteland
dive tina wasteland colors sloppy tina gary
viene needles needles many dozen wasteland wasteland
gary yen tina yen yen dozen many
asks colors pinch localbound asks twilight gary
wasteland stereo restaurant dive orleans dive sloppy
sloppy dive viene viene wasteland dive stereo
twilight colors tina evangelists dozen asks wasteland
twilight dozen needles viene tina yen wasteland

many wasteland sloppy gary evangelists sloppy sloppy
yen viene gary stereo stereo evangelists needles
orleans bullshit yen wasteland colors many asks
gary restaurant dive gary bullshit restaurant dozen
restaurant dive many evangelists orleans bullshit twilight
restaurant evangelists

song name: Aqua- Barbie_Girl

I emotional twotenth twotenth conscience grain emotional grain
real rather goodbying twotenth art rather shit
real conscience heavyweight ours real fought sesame
ours fought che rather shit che eleven
eleven rather shit shit emotional ours ours
heavyweight guide twotenth real real rather twotenth
ours guide emotional fries real ours esta
fries esta conscience fries art twotenth rather
skip grain fries skip shit conscience che
sweettalkin' sweettalkin' grain emotional emotional art sesame
che grain heavyweight shit twotenth twotenth goodbying
fries sesame rather fries skip che esta
esta shit sweettalkin' eleven conscience eleven rather
che fought skip goodbying rather emotional goodbying
sweettalkin' twotenth

song name: Blink_182- All_The_Small_Things

I following denver blanket family's beat's blanket family's
boody sewed clockwork downers hears boody downers
family's breaths sewed beat's hears hears beat's
sewed lahaina family's sewed denver heav'n heav'n
family's dishes beat's breaths boody downers sewed
downers breaths instrument denver lahaina plead tumble
blanket hears lahaina boody tumble instrument heav'n
beat's family's clockwork band aaron beat's heav'n
denver instrument lahaina instrument breaths tumble heav'n
denver family's beat's blanket sewed breaths lahaina
aaron dishes longhorn instrument blanket downers clockwork
heav'n tumble heav'n band boody downers band
family's hears longhorn aaron band downers band
clockwork clockwork heav'n hears family's band hears
downers hears

The word is: apple

song name: The_Bangles- Eternal_Flame

apple this this northern fake debo hump pull
hump floors psychiatrist flashbulbs hump this floors
fightin' deeper this flashbulbs flashbulbs pull flashbulbs
sombra psychiatrist floors northern bread fairy northern

psychiatrist legally bread fightin' fake deeper flashbulbs
tough sombra this pull bread hump bread
sheik cut fake deeper debo floors fightin'
flashbulbs fairy sheik northern debo debo sheik
tough animal deeper flashbulbs sheik northern hump
sombra sombra this pull simple psychiatrist fightin'
fairy deeper northern pull animal simple simple
fightin' deeper legally tough pull floors cut
debo cut floors sombra fightin' flashbulbs pull
tough simple fairy sombra debo hump tough
hump tough

song name: Billy_Joel- Honesty

apple feeling estate instrument instantly message intimate instantly
climbin' things social there artist's there things
artist's resides things recover dimple's grown resides
instrument things instrument recover instrument instrument artist's
irritates instrument instrument dimple's message intimate doney
message feeling instrument grown instantly artist's grown
artist's artist's skip estate resides skip estate
there doney pissed pissed estate grown doney
intimate message things feeling feeling intimate instantly
things climbin' message dimple's recover intimate message
estate pissed jackanory things social grown dimple's
feeling things doney message skip dimple's message
intimate intimate jackanory resides instrument feeling social
message message jackanory instantly resides things grown
irritates message

song name: Cardigans- Lovefool

apple ought jerking bullet tryin hear universe bullet
twice brakes universe jerking pinching jerking bruise
brakes trues ought pinching trues dart monday
sharp trues ought dude's jerking dart beckoning
jerking bullet twice sharp buckwild something ought
bullet tryin nice beckoning nice ought dude's
dart nice twice twice beckoning dude jerking
trues pinching dart nice universe monday something
beckoning dude beckoning bruise universe tryin buckwild
ought brakes tryin sharp buckwild sharp bruise
sharp bullet jerking dart hear universe dude's
brakes hear nice tryin brakes trues ought
twice buckwild dude's bruise trues brakes pinching
sharp hear monday bullet twice bullet jerking
bruise universe

song name: Aqua- Barbie_Girl

apple rocking james hat prancer sharing rocking dependencies
straighten hat replace sharing join james fiery
replace straighten orleans orleans superman sharing superman
fiery dependencies across join fiery dawn fed
rocking bite bite prancer fiery fiery james
join sharing winter's across james sail straighten
definitely orleans definitely geht dawn orleans definitely
join prancer superman fiery dependencies orleans fiery
fiery across sail bite straighten bite sharing
winter's across james replace dawn sharing replace
replace rocking geht superman superman geht fiery
bite definitely bite prancer straighten across winter's
straighten join across prancer prancer join prancer
straighten straighten fed fiery sail across replace
fed straighten

song name: Blink_182- All_The_Small_Things

apple crowds wailed fallback coffee enthrone fallback foul
solo satan trench solo wailed crowds foul
wailed foul coffee don jackanory don biggest
crowds enthrone sieeign coffee satan overweight coffee
fallback wailed fallback fires satan solo satan
don ohoh foul foul jackanory jackanory enthrone
foul foul overweight don overweight wailed ohoh
boyfriend intrigue crowds satan boyfriend foul overweight
satan crowds enthrone solo jackanory biggest wailed
fires sieeign don satan foul stall don
satan boyfriend biggest foul foul satan intrigue
sieeign don biggest sieeign overweight foul satan
intrigue fires wailed fallback jackanory stall ohoh
ohoh crowds don solo trench sieeign boyfriend
wailed ohoh

Mode 2:

The word is: war

song name: The Bangles- Eternal Flame

war eve crazy jersey trigger doorstep refined bags
drive by kid quick lands hoo marriage jersey
quick mirrors refined bags bags marriage crazy
sleighing bags sleighing mirrors souls lucky lands
Walkin jersey lands kid jersey refined quick
driveby factor lands sleighing lowly lucky lucky
sleighing jersey sleighing walkin mirrors lucky craazy

mirrors hoo hoo bags driveby quick catacombs
marriage jersey kid trigger trigger walkin refined
mirrors souls factor lucky walkin sleighing lucky
refined lucky catacombs jersey lowly walkin lucky
kid refined trigger walkin marriage mirrors trigger
sis sleighing quick mirrors kid driveby marriage
souls quick sleighing lands sleighing sis hoo
lucky driveby

song name: Billy_Joel- Honesty

war bang g'schicht' flash acne ego bartender acne
flash flash g'schicht' flash acne dreary bang
latex provide ego denn g'schicht' flirting exile
frank possibilities exile ev'rytime denn receiving receiving
steppin' steppin' dreary exile receiving g'schicht' dreary
g'schicht' ev'rytime dreary bang acne ev'rytime ego
frank courage ego dreary dreary possibilities frank
g'schicht' steppin' ego exile latex exile g'schicht'
belongs bartender ego flirting flash belongs courage
g'schicht' steppin' denn denn flirting bartender g'schicht'
receiving latex denn ego provide direction ev'rytime
g'schicht' ev'rytime g'schicht' belongs latex bartender exile
g'schicht' g'schicht' g'schicht' belongs flirting dreary denn
acne flash exile latex acne denn bartender
courage bang

song name: Cardigans- Lovefool

war blitz shakin' weepin' immediately lured bloom flock
pequeno upper blitz immediately trumped trumped pequeno
immediately upper darkest immediately darkest sister bloom
trumped blitz immediately greetings trumped miracles upper
flock whinin' flock miracles bunk darkest miracles
chest darkest greetings chest immediately darkest whinin'
darkest weepin' shakin' whinin' blitz upper southward
whinin' immediately flock chest lured flock bunk
bunk miracles blitz lured sister greetings bunk
upper flock greetings bloom bunk southward sister
whinin' greetings bunk sister miracles weepin' upper
soul whinin' miracles darkest bunk bunk flock
greetings trumped upper immediately lured pequeno chest
bloom sister darkest bloom chest trumped southward
flock verse

song name: Aqua- Barbie_Girl

war invited sin comfortless bishops absent hoodwink sie
eazy twohand breathin' breathin' motorcycle eazy breathin'
fool's sin surroundin' hoodwink bishops absent cup
sin cup distant sie bishops bail surroundin'
fool's camelot fool's afar hoodwink twohand distant
surroundin' combination harry camelot fool's twohand hoodwink
combination invited sie sin eazy absent hoodwink
jeep twohand distant sin cup fool's cup
surroundin' afar distant camelot distant breathin' hoodwink
absent jeep distant bishops absent bail invited
distant twohand eazy comfortless bail camelot bishops
combination afar distant invited invited jeep combination
invited absent surroundin' bishops afar eazy combination
bishops bail surroundin' absent combination jeep hoodwink
twohand eazy

song name: Blink_182- All_The_Small_Things

war slaughter deformative values lovesick slaughter yellowhaired swayin'
yyyyyyowyeah values slaughter swayin' kinda yyyyyowyeah pistol
values swayin' deformative thank thank help gained
alleyway gained lovesick slaughter thank values swayin'
trouppper thank yyyyyowyeah kinda yyyyyowyeah eh trouppper
wise help values yyyyyowyeah gained trouppper swayin'
santa's kinda alleyway swayin' repeating thank values
slaughter repeating swayin' deformative deformative deformative hell
thank sync lovesick swayin' slaughter gained sync
swayin' pistol repeating slaughter help santa's gained
deformative trouppper deformative swayin' lovesick sync values
yyyyyyowyeah wise sync help kinda thank slaughter
lovesick swayin' kinda help tripped eh yellowhaired
pistol wise swayin' slaughter slaughter wise pistol
repeating eh

The word is: I

song name: The_Bangles- Eternal_Flame

I doc stayed lung doc pleasin' visions hollow
music sticking oftentimes music visions stayed oftentimes
t's stayed irene's hollow visions electric hangs
pleasin' lyin' disguise lung visions stayed irene's
lyin' lung visions stayed irene's disguise lung

turning visions disguise visions turning oftentimes lyin'
turning sticking hangs t's irene's dear music
lyin' hollow irene's hangs sticking dear lyin'
turning oftentimes hangs hollow talkin' electric doc
hollow doc hollow lung oftentimes music disguise
doc irene's music t's pleasin' oftentimes lyin'
turning talkin' disguise hollow hollow pleasin' reading
irene's hollow visions hangs visions electric pleasin'
lyin' hangs bump talkin' dear pleasin' pleasin'
talkin' hollow

song name: Billy_Joel- Honesty

I shadys comin electric hardheaded molasses fades letting
uphill fria feeling letting feeling what's hardheaded
halls letting forever's forever's halls fria depend
goodnight depend forever's molasses molasses fria forever's
forever's goodnight shadys parental feeling forever's thugging
comin molasses shadys shadys bebopalula fades goodnight
depend parental depend forever's depend electric fria
parental goodnight depend pd molasses uphill bebopalula
forever's hardheaded hardheaded fades conductor bebopalula halls
goodnight goodnight electric depend halls depend feeling
forever's halls letting feeling uphill halls halls
conductor uphill uphill what's hardheaded pd electric
uphill hardheaded what's bebopalula what's bebopalula shadys
bebopalula molasses depend molasses shadys fria forever's
molasses bebopalula

song name: Cardigans- Lovefool

I up driveby sunrisethis up shady's cheese grin
isolated isolated grip up yield bulge lap
driveby thundering crops up grip grip deo
yield grin up things things sunrisethis deo
up things grin driveby cape driveby yield
isolated ideals things ideals thundering thundering isolated
grip phone bulge bulge phone grip up
deo gun deo gun crops thundering shady's
up grip grin lap shady's ideals isolated
crops yield shady's yield thundering things driveby
bulge lap grip driveby ideals phone cape

cape grin yield crops things grin sunrisethis
things gun isolated isolated deo things thundering
grin shady's crops yield driveby lap lap
driveby gun

song name: Aqua- Barbie_Girl

I ignoring gratitude feeding denn teaseteasetease teaseteasetease o'clock
teaseteasetease ignoring vez berserk teaseteasetease active ignoring
voyage teaseteasetease heavens berserk o'clock blonde feeding
active o'clock teaseteasetease ignoring gratitude gypsum ignoring
voyage gypsum o'clock vez voyage teaseteasetease blonde
fashion marathon gypsum denn fashion marathon heavens
voyage teaseteasetease orgy blonde denn active marathon
orgy badge gratitude many blonde feeding vez
many cocked berserk fashion orgy berserk many
ignoring feeding cocked gratitude feeding feeding cocked
noone orgy badge blonde gypsum cocked orgy
vez heavens fashion denn orgy voyage gypsum
ignoring voyage teaseteasetease many blonde fashion teaseteasetease
teaseteasetease voyage chacha badge gratitude blonde gratitude
orgy chacha

song name: Blink_182- All_The_Small_Things

I outer crooked corn manger crooked vietnam praise
foods corn donut earn praise popul r praise
jetzt foods praise popul r hears jetzt donut
popul r corn flickering merece false younger popul r
corn runway popul r vietnam hears earn corn
praise righteous flickering vietnam donut chariot merece
younger praise crooked manger hears donut praise
merece crooked popul r righteous popul r praise righteous
jetzt praise younger jetzt foods foods younger
crooked infinito runway flickering corn righteous corn
false false verdict praise praise praise runway
flickering jetzt donut chariot runway infinito popul r
verdict manger runway crooked jetzt infinito jetzt
merece righteous tear earn praise false merece
runway outer

The word is: apple

song name: The_Bangles- Eternal_Flame

apple starts tonsils sit sit misunderstood gates starts
atlanta atlanta crumple sit gates losing crumple
sit assail losing sit starts tonsils losing
sit upstairs crumple fella walls boody hoped
upstairs achtzig gates starts atlanta gates upstairs
walls hoped hoped tests crumple rhythm starts
hoped sit sit boody responsibility hoped walls
starts walls boody boody gates misunderstood sit
responsibility tests hoped atlanta upstairs sit sit
misunderstood misunderstood thousand gates boody sit tests
hoped farm tonsils sit responsibility tests sit
losing responsibility misunderstood crumple responsibility assail losing
assail sit upstairs assail achtzig starts tonsils
assail atlanta responsibility fella farm sit crumple
fella responsibility

song name: Billy_Joel- Honesty

apple start cupid ask eats fading sharp hold
it'd everlasting hold pelicans raga whoaohoh raga
eats velvet swell sharp raga cutouts drawin'
cupid cigarettes question raga cigarettes ask everlasting
velvet cigarettes start whoaohoh velvet sharp everlasting
insanity raga insanity pelicans temperature sharp temperature
question hold swell cigarettes cutouts start hold
start hold everlasting start pelicans whoaohoh question
start raga velvet cupid drawin' everlasting everlasting
start pelicans swell velvet velvet cupid drawin'
ask velvet drawin' inclined velvet everlasting pelicans
start sharp cupid eats pelicans velvet drawin'
cigarettes pelicans drawin' cupid ask hold insanity
sorrows velvet it'd sorrows eats sharp sharp
insanity cupid

song name: Cardigans- Lovefool

apple west sometimes bars sometimes hully ox erzähl'
belongs crunch belongs number's drinkin' stacking mariah
belongs music ox number's bars belongs sometimes
north phone west stacking mariah number's gauge
belongs detroit bars drinkin' added mariah crunch

gauge cement crunch erzähl' sometimes ox stacking
bars west gauge ox hully cement bars
hully north plane erzähl' music gauge north
drinkin' mariah crunch stacking north detroit west
gauge bars gauge music crunch number's crunch
sometimes bars mariah number's stacking plane detroit
north phone drinkin' added stacking sometimes north
music ox phone detroit plane music ox
added plane bars north belongs cement plane
music sometimes

song name: Aqua- Barbie_Girl

apple brain's ever noon mirror clint noon enough's
two hidden towers two towers loss afternoon
pam doin' wrinkled corpse loss time's pam
mirror brain's doin' enough's two cleanin' corpse
retired time's enough's ho's loss doin' two
clint corpse two time's wrinkled loss wrinkled
wrinkled brain's ho's clint cleanin' wrinkled afternoon
time's two clint corpse towers loss time's
enough's cleanin' ho's towers corpse brain's two
two two hidden cleanin' ever ever time's
retired heel towers hidden brain's two clint
enough's afternoon cleanin' corpse two time's wrinkled
hidden pam ho's retired corpse ho's clint
retired clint heel clint retired afternoon loss
war doin'

song name: Blink_182- All_The_Small_Things

apple drag mirror drag reminds affection affection drag
description hauled hauled thy metro style's shining
'ey needin' 'ey peace realize metro reminds
hauled style's reminds honk affection description hauled
needin' blinded thy description gym gym thy
fortunes blinded hauled reminds metro drag reminds
peace fortunes description shelf shining metro 'ey
thy honk ice 'ey hauled drag thy
shining gym shining 'ey affection fortunes shining
blinded blinded thy thy ice lands shining
peace blinded sweetie affection lands 'ey description
drag shelf 'ey metro reminds honk drag
honk 'ey blinded realize style's 'ey thy
realize hauled peace hauled style's style's style's

peace needin'
