=========== topic number = 5 ================

Topic 0: like tri love use good realli make great time

Topic 1: coffe flavor tea cup good better use 0s\_token0 drink

Topic 2: product buy price amazon bag box order purchas packag

Topic 3: tast like flavor eat look ingredi sweet sugar chocol

Topic 4: 0s\_token0 food dog water treat day year organ cat

perplexity = 337.410412778

This iteration --- 1587.86 seconds ---

=========== topic number = 10 ================

Topic 0: time love think treat know 0s\_token0 got thing want

Topic 1: like tri realli day thought smell recommend open differ

Topic 2: product 0s\_token0 amazon order box review pack purchas ship

Topic 3: 0s\_token0 water bottl feel oz mani compani bodi guess

Topic 4: make use littl mix need add fresh bit easi

Topic 5: flavor tast tea like drink nice enjoy expect green

Topic 6: coffe cup use good hot strong work peopl better

Topic 7: tast ingredi sweet sugar chocol cooki bar free like

Topic 8: food dog eat 0s\_token0 year come organ product month

Topic 9: good great buy price bag bought store brand bad

perplexity = 318.066119092

This iteration --- 1650.47 seconds ---

=========== topic number = 15 ================

Topic 0: food day year organ month time sinc cat old

Topic 1: product box order purchas packag pack open ship contain

Topic 2: coffe cup use strong brew pod roast work dark

Topic 3: littl love mix free make great peanut milk snack

Topic 4: make chip salt time eat fresh easi nice oil

Topic 5: tast water drink way want look recommend definit light

Topic 6: ingredi sweet sugar chocol cooki bar calori drink ad

Topic 7: good tri better best favorit brand pretti far thought

Topic 8: dog treat love eat chicken product chew happi hard

Topic 9: price buy store review great product amazon bag local

Topic 10: flavor like tast smell expect right howev kind cream

Topic 11: 0s\_token0 tea bag make enjoy green amazon star com

Topic 12: 0s\_token0 compani help care bodi noodl seed order away

Topic 13: 0s\_token0 use product hot sauc need time oz bottl

Topic 14: like realli thing think know lot look someth sure

perplexity = 304.096202477

This iteration --- 1722.58 seconds ---

=========== topic number = 20 ================

Topic 0: tast drink tri realli bad appl bitter black juic

Topic 1: like tast realli someth think expect review look probabl

Topic 2: 0s\_token0 hot sauc got oz good nice origin jar

Topic 3: 0s\_token0 compani mani year came formula bit 10 white

Topic 4: food dog treat cat chicken year chew old bag

Topic 5: coffe cup use pod brew strong roast bold dark

Topic 6: day time differ month sinc new bought chang noth

Topic 7: product buy fresh cut powder size label cook rice

Topic 8: box order packag pack purchas amazon open receiv item

Topic 9: tast like howev smell good look oil disappoint realli

Topic 10: use 0s\_token0 need work help start case popcorn care

Topic 11: good better littl thing stuff make real mix pretti

Topic 12: love great tri best favorit recommend hard way friend

Topic 13: water make want ad look bottl use like sweeten

Topic 14: 0s\_token0 cooki make small know end anoth turn soft

Topic 15: flavor tast chip salt regular tri right varieti spice

Topic 16: eat littl snack organ babi natur fruit healthi bar

Topic 17: ingredi chocol sugar sweet free calori high bar milk

Topic 18: tea bag 0s\_token0 com green nice amazon ounc enjoy

Topic 19: price store buy amazon bought brand peanut local review

perplexity = 298.832959904

This iteration --- 1758.91 seconds ---

=========== topic number = 25 ================

Topic 0: price bag review great star oz read reason expect

Topic 1: order box amazon ship item receiv purchas howev return

Topic 2: use 0s\_token0 differ want cream alway peopl need market

Topic 3: love day cat tri time thought away everi new

Topic 4: 0s\_token0 sinc tri come start help way recommend decid

Topic 5: 0s\_token0 hot sauc add good make far thought heat

Topic 6: dog treat 0s\_token0 love chew long small chicken bone

Topic 7: tast like bad vanilla expect feel worth 0s\_token0 good

Topic 8: ingredi sugar sweet calori fat diet high list syrup

Topic 9: food organ eat old year babi best month meal

Topic 10: 0s\_token0 product amazon com ounc www href gp http

Topic 11: coffe cup strong use pod brew roast bold machin

Topic 12: look product know qualiti 0s\_token0 brand perfect chicken piec

Topic 13: 0s\_token0 compani farm given huge anyth season stuff care

Topic 14: tea make tast green appl spice leav nice ice

Topic 15: cooki great mix free peanut butter buy gluten recommend

Topic 16: product store buy bought local groceri money save home

Topic 17: packag like open smell pack purchas enjoy fresh contain

Topic 18: like better someth right howev love anoth real think

Topic 19: good littl thing think pretti quick bad nice textur

Topic 20: make chip time salt eat powder popcorn coconut let

Topic 21: flavor tri favorit varieti disappoint best hint prefer fan

Topic 22: chocol bar eat milk snack sweet cereal delici crunchi

Topic 23: realli got work sure great actual think half want

Topic 24: drink water tast bottl 0s\_token0 ad energi acid soda

perplexity = 295.793407022

This iteration --- 1726.63 seconds ---

=========== topic number = 30 ================

Topic 0: tea green flavor spice bag make chai leav tast

Topic 1: 0s\_token0 compani help thought pleas stuff chang huge issu

Topic 2: food cat eat organ year babi month old start

Topic 3: drink tast ad juic diet want energi vitamin like

Topic 4: dog treat love recommend chicken anyth feed dri quick

Topic 5: tri great realli bit best favorit way happi nice

Topic 6: product ingredi contain list syrup natur label corn addit

Topic 7: good better star pretti bit think brand someth decent

Topic 8: price review bag great brand qualiti new know deal

Topic 9: box packag howev open pack purchas actual sure cost

Topic 10: enjoy time differ fresh worth end good lot notic

Topic 11: sweet sugar high calori fat serv low protein healthi

Topic 12: love littl peanut butter snack think good eat kind

Topic 13: bar size think chew eat small piec half larg

Topic 14: chocol smell like someth expect nice milk bad cream

Topic 15: 0s\_token0 hot sauc chees spici noodl far best origin

Topic 16: buy bought store local groceri free thought gluten cheaper

Topic 17: flavor tri disappoint fan bad good realli strong hint

Topic 18: order product amazon purchas ship item receiv arriv seller

Topic 19: like look got thing real right anoth make way

Topic 20: water 0s\_token0 bottl tast want recommend acid long bodi

Topic 21: tast like better quit vanilla milk strong sort opinion

Topic 22: time day everi need realli minut noth jar wonder

Topic 23: 0s\_token0 cooki amazon product com ounc pack www gp

Topic 24: 0s\_token0 bag oz howev know come pound alway read

Topic 25: tast like chip salt popcorn sure definit salti pop

Topic 26: use 0s\_token0 work feel wast hair brand good condition

Topic 27: coffe cup pod brew roast bold strong machin keurig

Topic 28: appl candi tri hope help want ok dri stuff

Topic 29: make mix littl add use easi coconut rice cook

perplexity = 293.868284299

This iteration --- 1990.05 seconds ---

=========== topic number = 50 ================

Topic 0: 0s\_token0 oz sinc come pound formula work farm thought

Topic 1: day cat food everi month chang start mani new

Topic 2: time littl bought long soup best alway differ shop

Topic 3: star right instead lot good everi flavor pouch review

Topic 4: make mix use easi ad powder add plain ice

Topic 5: like buy tri sure know bland far clam paid

Topic 6: store bought buy local amazon groceri cheaper pumpkin honey

Topic 7: 0s\_token0 help natur bodi seed health healthi fast compani

Topic 8: price review great save good 50 sale qualiti 95

Topic 9: water 0s\_token0 bottl tast acid look differ make ph

Topic 10: ingredi diet syrup corn list real sugar meat use

Topic 11: chip rice cook pepper sweet potato eat spici add

Topic 12: hot sauc origin 0s\_token0 differ high littl especi cost

Topic 13: bag 0s\_token0 know stale product peopl fresh home come

Topic 14: review know howev think bit come anyth actual need

Topic 15: drink tri tast juic vitamin energi caffein calori ad

Topic 16: think snack nice expect dri littl crunchi quick cracker

Topic 17: smell like realli noodl open howev fish later threw

Topic 18: free contain recommend gluten time wheat peopl flour bread

Topic 19: order amazon item receiv disappoint return ship thank descript

Topic 20: food eat organ babi old compani meal grain month

Topic 21: bar sugar fat sweet eat calori cereal ingredi high

Topic 22: 0s\_token0 wrong better increas want live consid recommend cost

Topic 23: good better pretti bean quick mayb decent let color

Topic 24: box pack packag open date expir 10 shipment individu

Topic 25: dog treat chicken chew bone size ball small toy

Topic 26: like tast someth vanilla expect probabl amaz usual tri

Topic 27: flavor disappoint artifici hint expect fan horribl liter differ

Topic 28: 0s\_token0 good issu absolut stuff cours hope got tonic

Topic 29: 0s\_token0 use minut small like let lid bowl plastic

Topic 30: oil coconut jar color prefer stuff use stick littl

Topic 31: good great real chees fresh time eat textur expens

Topic 32: appl hope thing big bad cinnamon make nice red

Topic 33: salt qualiti tast jerki vinegar beef know piec salti

Topic 34: coffe cup pod brew strong roast bold blend maker

Topic 35: like popcorn lot pop cherri use ginger fine work

Topic 36: realli want half took sweet case healthi got recommend

Topic 37: use thing need type long hair condition clear littl

Topic 38: brand best sure problem sinc anoth buy care happen

Topic 39: love tri favorit perfect away new home good coupl

Topic 40: got bad realli time want kind bit second tini

Topic 41: tast better sugar tri like opinion textur flavor prefer

Topic 42: look spice varieti stuff chai end howev nice leav

Topic 43: tast peanut butter great thought hard kind like almond

Topic 44: tri 0s\_token0 year regular buy decid produc typic start

Topic 45: love great way candi happi gift month piec cut

Topic 46: product ship thought mean love cost human healthi similar

Topic 47: cooki chocol 0s\_token0 dark delici cocoa soft milk arriv

Topic 48: purchas product money wast make work think enjoy kid

Topic 49: tea amazon com green href www http gp flavor

perplexity = 293.521623393

This iteration --- 2212.37 seconds ---

=========== topic number = 75 ================

Topic 0: peopl know littl guess differ alway use thought person

Topic 1: got work realli fresh experi normal want add hand

Topic 2: 0s\_token0 time bodi caus spice wash kind stuff old

Topic 3: 0s\_token0 oz like formula pound 99 tell larger plastic

Topic 4: calori fat high cereal serv protein carb sugar low

Topic 5: like tast vanilla review probabl bit balanc strong noth

Topic 6: coffe cup pod brew use roast bold strong machin

Topic 7: appl ice bitter cream milk cinnamon matcha hope tri

Topic 8: help anoth purchas fruit fast quit issu health thing

Topic 9: store bought local buy groceri amazon brand cheaper hope

Topic 10: use popcorn half pop expect like bit purchas batch

Topic 11: dog treat chew chicken bone pet toy dri kibbl

Topic 12: look someth noth simpli better stuff advertis busi everi

Topic 13: 0s\_token0 organ product health farm tasti add recent inde

Topic 14: 0s\_token0 purchas better differ replac dent muffin reason liter

Topic 15: product ship date wast damag expir price thank seller

Topic 16: mix make tri cake love bland disappoint littl time

Topic 17: good thought howev buy problem make need style way

Topic 18: eat lot snack cracker dri small crunchi expens good

Topic 19: rice chicken pepper size make want cook add heat

Topic 20: 0s\_token0 plant pot produc small replac know come bought

Topic 21: hot sauc 0s\_token0 far everyon bottl notic origin base

Topic 22: water tast 0s\_token0 acid bottl bake realli alkalin ph

Topic 23: 0s\_token0 ad product vitamin bottl peopl serv fruit sweeten

Topic 24: 0s\_token0 think week given differ hope tri orang fit

Topic 25: food babi month best eat time stage earth expir

Topic 26: buy best els brand stop difficult expect clam snow

Topic 27: drink energi caffein aftertast hour carbon sweet flavor effect

Topic 28: chip salt potato tast flavor thing salti bake regular

Topic 29: cooki end soft layer took oreo disappoint nice crumbl

Topic 30: 0s\_token0 amazon product com ounc http href gp www

Topic 31: tast tri favorit better littl use abl sinc thing

Topic 32: day everi month hand sick home brand dont brown

Topic 33: tast bad mayb good tasti idea ad kind recommend

Topic 34: price review save pay star chang great 50 avail

Topic 35: oil make coconut way conveni love soft great bowl

Topic 36: think better need realli enjoy brand look doubl come

Topic 37: chocol dark milk tri cocoa right review home littl

Topic 38: great recommend happi love second howev tell issu use

Topic 39: packag compani rate okay 12 rememb mani brown condit

Topic 40: realli differ ok sure vinegar good disappoint sinc expect

Topic 41: use hair condition need good like differ bottl typic

Topic 42: realli small favorit close live stick think better bit

Topic 43: smell like realli noodl larg fresh old time fish

Topic 44: qualiti piec jerki good purchas know price bite crunchi

Topic 45: love actual long morn packet ago tri disappoint past

Topic 46: 0s\_token0 feel especi hard thought absolut bit came fan

Topic 47: tast make diet like soda 0s\_token0 sweeten littl better

Topic 48: tea flavor green spice chai stash leaf steep ice

Topic 49: bar sugar sweet eat granola mouth snack fiber big

Topic 50: love great easi quick favorit delici alway wrong clean

Topic 51: good contain color natur reason long quick high paid

Topic 52: product enjoy bad buy purchas howev regular read anyth

Topic 53: star flavor right light easi think love pouch note

Topic 54: flavor artifici best delici fruit believ good usual strong

Topic 55: like real look away come know perfect fresh anyth

Topic 56: sweet tast nice stevia make usual powder black spici

Topic 57: order amazon item receiv disappoint servic return hazelnut money

Topic 58: 0s\_token0 stuff way thing anoth howev littl add sinc

Topic 59: peanut butter powder nut almond order think make run

Topic 60: time littl chees thing thought includ want pasta result

Topic 61: 0s\_token0 chang mani compani huge sourc consist german wonder

Topic 62: good healthi brand nice bodi tri actual want calori

Topic 63: time jar let minut make lid small turn sure

Topic 64: ingredi list product corn syrup cheap meat label read

Topic 65: food cat year feed eat meal gave start sinc

Topic 66: tri decid sure time lot regular longer long year

Topic 67: juic 0s\_token0 cherri want bit fine bad mani 100

Topic 68: like tast howev care way grain went year realli

Topic 69: box pack open order gift receiv shipment wrap insid

Topic 70: bag come new start small bought ask sever fact

Topic 71: like candi case new year coupl old hard enjoy

Topic 72: tri friend know year bean worth bit pleas fine

Topic 73: tast like expect littl blueberri energi altern 50 kind

Topic 74: free gluten good realli wheat flour thought bought use

perplexity = 301.981947907

This iteration --- 2351.88 seconds ---

=========== topic number = 100 ================

Topic 0: fresh away new think half far delici amazon make

Topic 1: come especi ice cream know thought eat use need

Topic 2: 0s\_token0 simpli white life brown believ year everyon hear

Topic 3: qualiti jerki friend beef spici tender know wild pretti

Topic 4: 0s\_token0 sort 10 chang probabl close actual mouth reason

Topic 5: order amazon item receiv purchas return ship site gum

Topic 6: 0s\_token0 thought know expect probabl suppli tri drinker europ

Topic 7: store bought local groceri buy bad 00 troubl purchas

Topic 8: popcorn like pop know shape big pour good bad

Topic 9: time good better great problem jelli work way anoth

Topic 10: realli like sure make differ way tast thing rememb

Topic 11: food start chang issu year sinc eat problem digest

Topic 12: product ship seller pack jar peopl broken free someth

Topic 13: coffe cup use pod brew work ground machin maker

Topic 14: 0s\_token0 compani stuff review warn excit deliv got teeth

Topic 15: tast expect realli buy differ worth aw flavor threw

Topic 16: 0s\_token0 qualiti think gift origin figur came cut pleas

Topic 17: think small happi make favorit bad thank stevia went

Topic 18: 0s\_token0 eat sure price idea consumpt kind product reduc

Topic 19: chicken year milk meat bit mayb recommend stock broth

Topic 20: product love purchas sinc disappoint howev noth quick hand

Topic 21: good thought better think 0s\_token0 half soup use expens

Topic 22: like someth wonder tri differ process second drinker coupl

Topic 23: differ enjoy varieti vinegar mint past buy prefer peppermint

Topic 24: ingredi corn use list label syrup read cheap real

Topic 25: good guess favorit want real grain past els particular

Topic 26: box bought open receiv wrap packag year dri star

Topic 27: appl hope make bitter cider matcha flavor notic red

Topic 28: like look tast think eat person thought good deal

Topic 29: oil 0s\_token0 coconut smell cream food lavend bit skin

Topic 30: tast product ok half thought cat love plus easi

Topic 31: 0s\_token0 receiv black sale alway tast make way quick

Topic 32: better make way look case real suggest need slice

Topic 33: 0s\_token0 eat worth small know howev mouth recent syrup

Topic 34: perfect got wors fruit better sinc actual unfortun longer

Topic 35: great good fan qualiti best toast short expens fresh

Topic 36: packag pack open make individu got purchas alreadi took

Topic 37: tri good tast everi better contain pretti realiz home

Topic 38: best look want bit ingredi coupl sure doubl product

Topic 39: coffe cup bold strong roast blend set dark espresso

Topic 40: tast cost disappoint light normal howev opinion unless stuck

Topic 41: calori fat ingredi low serv protein list carb nutrit

Topic 42: littl easi chees powder mix ad packet cook pasta

Topic 43: recommend vitamin bottl 0s\_token0 product day like refriger tri

Topic 44: make 0s\_token0 use jar like lid review turn bit

Topic 45: star flavor like berri someth note pouch pack roast

Topic 46: free mix gluten cake bread wheat bake flour tast

Topic 47: time regular make way figur fact bread think quick

Topic 48: good high actual bland flavor mean mani come rate

Topic 49: chocol dark milk review cocoa purchas enjoy tri snack

Topic 50: 0s\_token0 help bodi fast care guess lot root wash

Topic 51: water 0s\_token0 make acid drink tast bottl ph alkalin

Topic 52: organ brand natur product seed tast farm fruit compani

Topic 53: contain color probabl need creamer morn kind came servic

Topic 54: buy look piec candi think packag clam delici dinner

Topic 55: sweet good great small overal come bit seen beverag

Topic 56: dog treat love feed dri chicken pet kibbl old

Topic 57: eat cereal dri meal crunchi granola cinnamon quit food

Topic 58: want juic cherri instead leav grape ad 100 fruit

Topic 59: use bought formula arriv 0s\_token0 disappoint got cream mouth

Topic 60: love great friend deal time kid wonder daughter hope

Topic 61: stuff sinc work dri case love stick grow usual

Topic 62: nice bit notic great want similar howev purchas honest

Topic 63: bag oz like pound 12 suppos small quit bottl

Topic 64: price review amazon product great high save brand subscrib

Topic 65: babi month date year howev time expir eat stage

Topic 66: peopl order tast bad differ big ok chang old

Topic 67: tri sure pretti place purchas instead absolut kid altern

Topic 68: make pumpkin tri everi open pretti notic actual half

Topic 69: littl healthi purchas want mayb good recommend come market

Topic 70: hard recommend time tasti littl lot rememb famili enjoy

Topic 71: tri plant decid produc machin bought 0s\_token0 love lot

Topic 72: cooki nice end layer oreo soft eat chocol realli

Topic 73: got money order work favorit exact bad great design

Topic 74: like tast vanilla high help expect healthi buy better

Topic 75: like tast 0s\_token0 tri anoth friend honey ad gave

Topic 76: use hair condition look feel bottl usual claim minut

Topic 77: drink flavor sweet artifici sweeten tast energi caffein tri

Topic 78: tea flavor green chai ginger bag spice stash ice

Topic 79: like howev bean feel end mean way case probabl

Topic 80: buy come like littl use real slight crab daughter

Topic 81: 0s\_token0 amazon product com href www gp http ounc

Topic 82: thing got 0s\_token0 purchas thai spici sure way size

Topic 83: tast buy hand lemon ice add sell advertis hard

Topic 84: chew long anyth bone toy minut ball larg size

Topic 85: sauc hot bottl origin far high chipotl jalapeno love

Topic 86: chip salt potato salti snack know tasti flour sea

Topic 87: 0s\_token0 need time day wrong box waffl regular dont

Topic 88: good 0s\_token0 lot better realli fine okay littl away

Topic 89: cat day month twice gave noth later everi new

Topic 90: add rice pepper size chicken heat half need quit

Topic 91: product market want leav buy disappoint stay fair favorit

Topic 92: diet soda realli right thing review mani like way

Topic 93: like 0s\_token0 realli anoth best absolut contain ad shop

Topic 94: good cracker tast snack addit differ expect flavor sinc

Topic 95: smell noodl textur realli pretti fish larg agre doctor

Topic 96: sugar bar like sweet tast fiber make tri anoth

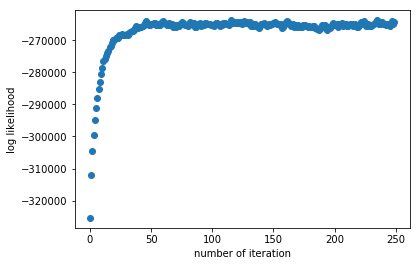
Topic 97: butter peanut flavor kind cheaper idea howev almond snack

Topic 98: flavor disappoint spice money strong sugar quick fruiti mayb

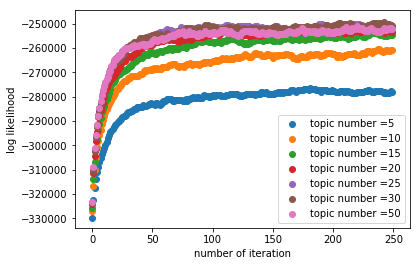
Topic 99: brand use good love thought actual purchas happen line

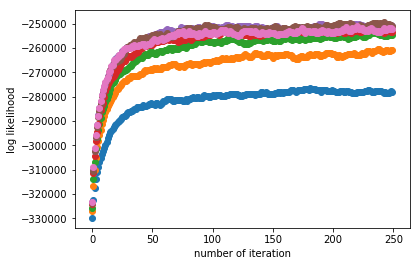
perplexity = 313.130450308

This iteration --- 2796.24 seconds ---

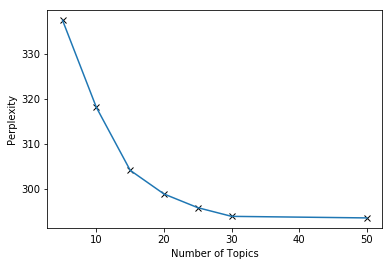


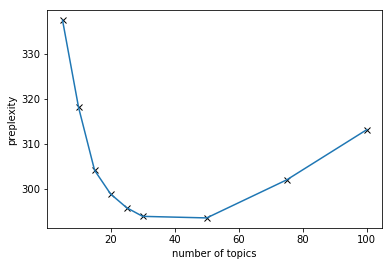
Log likelihood

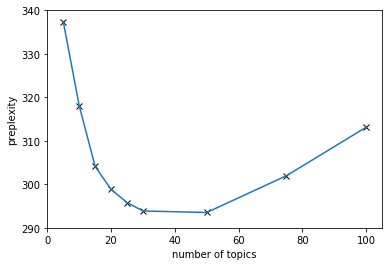




Perplexity:







Proportion = [0.1,0.15,0.2,0.3,0.5]

=========== topic number = 30 ================

Topic 0: bought nice amazon time thought love carb coconut box

Topic 1: work open mix piec care come groceri 0s\_token0 fact

Topic 2: 0s\_token0 want feel year bought 50 nice friend fountain

Topic 3: like oil littl look 100 product onlin return thank

Topic 4: 0s\_token0 case year know stop chocol everi machin impress

Topic 5: 0s\_token0 organ seed food product thing year season great

Topic 6: tea amazon green 0s\_token0 com href www gp http

Topic 7: 0s\_token0 peopl milk contain half bit review purchas pepper

Topic 8: like tast treat chicken realli need bar enjoy meat

Topic 9: 0s\_token0 cooki calori high fat got review serv best

Topic 10: flavor sweet sugar ad bad strong tri coke soda

Topic 11: tast expect drink great eat add tri light water

Topic 12: 0s\_token0 good pack store mix star month actual purchas

Topic 13: love tri version product conveni big need disappoint candi

Topic 14: product like ingredi read sure purchas better review recommend

Topic 15: dog price food feed dri wrong amazon 24 problem

Topic 16: time realli mix tast bit free let tasti packag

Topic 17: 0s\_token0 use bread tri order chang long black shot

Topic 18: tast make far sever tri butter vanilla work help

Topic 19: great item store packag flavor bold right box compani

Topic 20: 0s\_token0 long probabl usual fruit anyth sinc ingredi right

Topic 21: coffe good 0s\_token0 bad espresso better usual overpow vinegar

Topic 22: bag product littl packag china thing jar suggest mani

Topic 23: 0s\_token0 use make food easi blend turn steam lid

Topic 24: cup hot real caramel chang cider purchas filter thank

Topic 25: buy good textur noth use parti someth ship half

Topic 26: 0s\_token0 powder stuff someth came love home sugar garden

Topic 27: 0s\_token0 howev food bottl tast favorit idea differ diet

Topic 28: tast brand chew know jerki got second salti low

Topic 29: 0s\_token0 day eat box chicken way purchas guess new

perplexity = 79.6983715023

I purchased this product : (top topic: 5)

I ordered it but didn't r: (top topic: 3)

Obviously this company is: (top topic: 18)

Doesn't taste very good, : (top topic: 5)

This is less of a "bold" : (top topic: 9)

So far the one box I open: (top topic: 8)

Got the my order, opened : (top topic: 0)

I love coffee and I start: (top topic: 13)

this price is a joke righ: (top topic: 21)

I'd like to try something: (top topic: 2)

============= binary classification ==================

binary word acc = 0.672426746807

binary lda acc = 0.59128474831

============= 3-class classification ==================

3-class word acc = 0.462058602554

3-class lda acc = 0.361382419234

This iteration --- 2100.09 seconds ---

=========== topic number = 30 ================

Topic 0: 0s\_token0 day bottl compani need formula quick item snack

Topic 1: cup tast flavor cider perfect tea open black appl

Topic 2: flavor 0s\_token0 like tri natur add instead contain read

Topic 3: love look purchas ship water stuff lot long like

Topic 4: 0s\_token0 sweet ad case month sugar howev order probabl

Topic 5: dog price food feed 0s\_token0 noth recommend high amazon

Topic 6: buy packag differ chicken 0s\_token0 year chang crunchi butter

Topic 7: 0s\_token0 leav star problem vanilla eat vinegar come overal

Topic 8: store drink buy love help mix especi recommend littl

Topic 9: bag pack bought gum replac use new disappoint good

Topic 10: 0s\_token0 food organ year use huge alway stuf china

Topic 11: 0s\_token0 like make food eat peopl time turn review

Topic 12: good tri time away came thought lot soup spici

Topic 13: 0s\_token0 tea amazon product green com gp href www

Topic 14: treat come bad brand cat sweeten order sinc piec

Topic 15: great buy use right easi price good expect shot

Topic 16: realli tast thing treat box snack potato great flour

Topic 17: coffe like cup strong month brew label decaf bold

Topic 18: littl use tri got best pound girl month version

Topic 19: 0s\_token0 time want use receiv realli honey know hot

Topic 20: flavor know qualiti jerki brand anoth bad like salt

Topic 21: cooki 0s\_token0 calori want tast someth notic best spice

Topic 22: product ingredi think better meat mani sure list ok

Topic 23: tast like box review bar soda coke wrong end

Topic 24: bit great bread chew carb low actual break 30

Topic 25: make work candi 0s\_token0 free kid mix mouth save

Topic 26: 0s\_token0 oil 100 tast thank use smell includ ship

Topic 27: 0s\_token0 decid care produc year plant result right alreadi

Topic 28: love order store bean salti time usual someth fresh

Topic 29: 0s\_token0 nice mix howev coconut sweet yogurt cream make

perplexity = 106.540790916

I purchased this product : (top topic: 6)

I ordered it but didn't r: (top topic: 11)

Obviously this company is: (top topic: 10)

Doesn't taste very good, : (top topic: 6)

This is less of a "bold" : (top topic: 5)

So far the one box I open: (top topic: 6)

Got the my order, opened : (top topic: 12)

I love coffee and I start: (top topic: 3)

this price is a joke righ: (top topic: 20)

I'd like to try something: (top topic: 13)

============= binary classification ==================

binary word acc = 0.685126582278

binary lda acc = 0.598101265823

============= 3-class classification ==================

3-class word acc = 0.477848101266

3-class lda acc = 0.388449367089

This iteration --- 2041.41 seconds ---

=========== topic number = 30 ================

Topic 0: 0s\_token0 year health food decid result plant china instead

Topic 1: box bar vanilla bean time ship far expect unfortun

Topic 2: day better contain coconut order recommend week yogurt realli

Topic 3: 0s\_token0 amazon com http href gp www star green

Topic 4: flavor like fruit howev long actual dri look cracker

Topic 5: 0s\_token0 qualiti got chew beef salti easi sometim come

Topic 6: good tast want day thought add right hard 50

Topic 7: treat eat 0s\_token0 realli work thought help care away

Topic 8: 0s\_token0 price order use packag chicken problem rice splenda

Topic 9: like 0s\_token0 littl use need review time best figur

Topic 10: coffe cup pod strong work machin bold brew maker

Topic 11: 0s\_token0 food make turn use steam time blend start

Topic 12: 0s\_token0 size great quick rice compani portion noth actual

Topic 13: tast like drink sinc chang coke diet pack fresh

Topic 14: make good time bit 0s\_token0 bought real plain stuff

Topic 15: sweet flavor store candi better lot potato spice easi

Topic 16: use littl tast tri like vinegar ad coupl product

Topic 17: 0s\_token0 textur packag like leav ad chocol energi plus

Topic 18: dog food price 0s\_token0 feed wrong chicken howev mani

Topic 19: tri purchas store look oil snack month easi want

Topic 20: 0s\_token0 organ seed fat quit disappoint fast support high

Topic 21: 0s\_token0 water acid case natur product soda anoth bodi

Topic 22: cooki flavor bad calori 0s\_token0 worth expect small sure

Topic 23: buy thing mix kind season best okay gluten cut

Topic 24: bag bad bought cat open old favorit mouth drink

Topic 25: love oil smell disappoint 100 black return past chemic

Topic 26: 0s\_token0 bottl know milk regular good hope main probabl

Topic 27: product ingredi think brand review nice good butter purchas

Topic 28: tea flavor enjoy green ginger bag yogi box nice

Topic 29: great 0s\_token0 realli recommend love free add hot extra

perplexity = 137.145605634

I purchased this product : (top topic: 29)

I ordered it but didn't r: (top topic: 3)

Obviously this company is: (top topic: 8)

Doesn't taste very good, : (top topic: 21)

This is less of a "bold" : (top topic: 19)

So far the one box I open: (top topic: 27)

Got the my order, opened : (top topic: 8)

I love coffee and I start: (top topic: 6)

this price is a joke righ: (top topic: 2)

I'd like to try something: (top topic: 12)

============= binary classification ==================

binary word acc = 0.683375104428

binary lda acc = 0.634085213033

============= 3-class classification ==================

3-class word acc = 0.508771929825

3-class lda acc = 0.386800334169

This iteration --- 2036.38 seconds ---

=========== topic number = 30 ================

Topic 0: eat thing best like dri fruit alway someth lot

Topic 1: like think know realli meat start sinc type stale

Topic 2: 0s\_token0 contain sure brand sweeten come buy everi purchas

Topic 3: oil item chew ship quick problem mani smell cat

Topic 4: love 0s\_token0 tri open surpris bone hard look lot

Topic 5: product bad purchas candi use better actual sweet know

Topic 6: good use differ extra case vinegar absolut need enjoy

Topic 7: 0s\_token0 tri thought use bottl came wonder past switch

Topic 8: price good great store cheaper local end servic cost

Topic 9: littl cooki snack better want 0s\_token0 real oreo famili

Topic 10: make mix ad work butter use perfect chees pack

Topic 11: 0s\_token0 review howev make want oz decid rate pound

Topic 12: dog food treat year old peopl feed month sever

Topic 13: chip tast salt buy expect jerki cereal pepper spici

Topic 14: chicken anoth thought cat look coconut way favorit day

Topic 15: tast like drink big light diet box smell use

Topic 16: box time order packag buy purchas cut small week

Topic 17: 0s\_token0 enjoy instead honey thank healthi digest mushroom great

Topic 18: 0s\_token0 amazon product com pack realli gp www http

Topic 19: 0s\_token0 organ china compani 10 ago food work label

Topic 20: ingredi sugar sweet calori bar chocol fat seed high

Topic 21: time food use easi love blend littl turn let

Topic 22: free nice good time great case gluten especi bread

Topic 23: tea green stuff enjoy ginger chai realli yogi lot

Topic 24: flavor brand pumpkin reason disappoint spice qualiti soy home

Topic 25: bag got bought star groceri pound beef friend began

Topic 26: 0s\_token0 water acid help includ bodi natur base quit

Topic 27: coffe cup strong pod brew ground machin maker bold

Topic 28: half rice size recommend day add realli nice black

Topic 29: 0s\_token0 appl powder went treat play color stuff everyon

perplexity = 169.113080214

I purchased this product : (top topic: 27)

I ordered it but didn't r: (top topic: 3)

Obviously this company is: (top topic: 19)

Doesn't taste very good, : (top topic: 28)

This is less of a "bold" : (top topic: 11)

So far the one box I open: (top topic: 23)

Got the my order, opened : (top topic: 19)

I love coffee and I start: (top topic: 7)

this price is a joke righ: (top topic: 4)

I'd like to try something: (top topic: 19)

============= binary classification ==================

binary word acc = 0.696545284781

binary lda acc = 0.644257703081

============= 3-class classification ==================

3-class word acc = 0.500466853408

3-class lda acc = 0.408963585434

This iteration --- 2062.62 seconds ---

=========== topic number = 30 ================

Topic 0: coffe cup pod brew strong use ground bold maker

Topic 1: 0s\_token0 amazon product com year www http gp href

Topic 2: tri come start way love lot year far notic

Topic 3: buy good bad brand thing sure care eat els

Topic 4: tea drink tast enjoy nice green lot half chai

Topic 5: dog treat chicken cat howev chew feed soft recommend

Topic 6: great work chees tri purchas noodl expens past figur

Topic 7: 0s\_token0 time make small minut blend differ turn bowl

Topic 8: bag got open hot sure sinc like right pound

Topic 9: use want case bottl thing need save anoth differ

Topic 10: love look oil coconut smell pay hard 100 cream

Topic 11: flavor good tri better disappoint artifici mani wrong spice

Topic 12: ingredi sugar sweet calori high eat fat list healthi

Topic 13: make use time littl easi ad add got powder

Topic 14: chocol bar cooki milk sweet 0s\_token0 like oreo dark

Topic 15: food month eat old babi organ new formula gave

Topic 16: like review peopl know someth item bought look work

Topic 17: 0s\_token0 size rice includ need cut half dish fact

Topic 18: 0s\_token0 water qualiti acid perfect make bodi jerki cherri

Topic 19: love appl candi make smell 0s\_token0 shop big bitter

Topic 20: tast like realli expect diet soda real bit normal

Topic 21: box order packag pack purchas receiv insid clear arriv

Topic 22: 0s\_token0 purchas high window play websit technic replac clam

Topic 23: good free recommend 0s\_token0 long gluten thank famili actual

Topic 24: 0s\_token0 help natur organ seed fast delici healthi littl

Topic 25: price store great amazon local bought disappoint groceri expir

Topic 26: chip salt eat dri fruit snack tasti probabl thought

Topic 27: tast like butter think peanut mix kind problem use

Topic 28: day littl everi bit thought better sick veget went

Topic 29: product contain read ship bought label think sinc piec

perplexity = 238.516190054

I purchased this product : (top topic: 11)

I ordered it but didn't r: (top topic: 0)

Obviously this company is: (top topic: 4)

Doesn't taste very good, : (top topic: 26)

This is less of a "bold" : (top topic: 0)

So far the one box I open: (top topic: 0)

Got the my order, opened : (top topic: 3)

I love coffee and I start: (top topic: 25)

this price is a joke righ: (top topic: 12)

I'd like to try something: (top topic: 23)

============= binary classification ==================

binary word acc = 0.673885350318

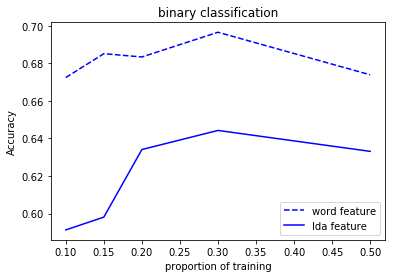
binary lda acc = 0.633121019108

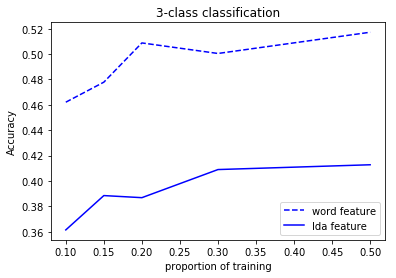
============= 3-class classification ==================

3-class word acc = 0.517197452229

3-class lda acc = 0.412738853503

This iteration --- 1915.79 seconds ---





对topic的标题进行分类：循环250次

=========== topic number = 5 ================

Topic 0: 0s\_token0 tast flavor like best stuff horribl tea fat

Topic 1: 0s\_token0 great love buy ok pasta healthi cat decept

Topic 2: 0s\_token0 dog wonder bad treat control cooki perfect spice

Topic 3: good coffe price product tea contain sweet green qualiti

Topic 4: 0s\_token0 eat dog tasti yummi seed bitter fuel fun

perplexity = 9.5709905391

This iteration --- 145.26 seconds ---

=========== topic number = 10 ================

Topic 0: great coffe buy love price chang fantast pass eh

Topic 1: 0s\_token0 good treat spici organ toy want chip work

Topic 2: good tast product sweet contain dog mix healthi fat

Topic 3: 0s\_token0 flavor bad happi qualiti pasta look price old

Topic 4: 0s\_token0 tea eat dog love price jet green bewar

Topic 5: 0s\_token0 like best high spice ok think bitter product

Topic 6: 0s\_token0 tasti cooki puppi bad sweet peanut kit mix

Topic 7: 0s\_token0 wonder best stuff gluten sweeten free okay smooth

Topic 8: 0s\_token0 cat control tast horribl delici butter yummi fun

Topic 9: 0s\_token0 dog like snack pack gf expens damag nice

perplexity = 9.66927420078

This iteration --- 152.98 seconds ---

=========== topic number = 15 ================

Topic 0: 0s\_token0 stuff love wrong decent food pasta aspartam better

Topic 1: 0s\_token0 best seed high licoric actual fruit yummi pod

Topic 2: 0s\_token0 like price horribl toy decent size snack cooki

Topic 3: good product tast coffe sweeten puppi snack cooki treat

Topic 4: 0s\_token0 dog perfect love sweet smooth worth aspartam fruit

Topic 5: 0s\_token0 spici expens decept like seed look old spice

Topic 6: 0s\_token0 amazon mix noth anyon disgust horribl expect cracker

Topic 7: great wonder love ok eh crunchi price gluten protein

Topic 8: 0s\_token0 hard sweet cat spice flavor strong old great

Topic 9: good flavor 0s\_token0 tasti eat sweet qualiti price cat

Topic 10: 0s\_token0 tast good ok work damag box flavor yummi

Topic 11: tast good great snack vet mustard want weight ingredi

Topic 12: 0s\_token0 pack dog yummi okay smell grass oil fantast

Topic 13: 0s\_token0 coffe bad tea buy wonder delici green fun

Topic 14: 0s\_token0 tea healthi free tast look grass ok fuel

perplexity = 10.0738068467

This iteration --- 144.68 seconds ---

=========== topic number = 20 ================

Topic 0: flavor best price better product happi buy licoric mix

Topic 1: great product dog food contain treat realli pod gluten

Topic 2: 0s\_token0 smooth buy ingredi look nice seed bitter decent

Topic 3: 0s\_token0 ok toy healthi seed size spici think tast

Topic 4: 0s\_token0 sweet flavor chip jet mustard pasta protein smell

Topic 5: 0s\_token0 coffe old love good crunchi fun disgust yummi

Topic 6: 0s\_token0 tast eat like gf high jet bewar decent

Topic 7: 0s\_token0 love cat pack anyon buy grass chip fantast

Topic 8: 0s\_token0 wrong stuff green soy decept like bad look

Topic 9: 0s\_token0 wonder mix chai spici tasti tea fat cracker

Topic 10: 0s\_token0 bad tast fruit gluten green sweeten sweet chai

Topic 11: 0s\_token0 horribl like pasta tea butter cooki damag disgust

Topic 12: good great snack perfect ok price pod box licoric

Topic 13: good 0s\_token0 great control love size snack cooki bitter

Topic 14: 0s\_token0 dog treat fuel pass littl great stuff oil

Topic 15: 0s\_token0 qualiti cat hard great okay organ pack item

Topic 16: 0s\_token0 love expect noth vet peanut conveni strang contain

Topic 17: 0s\_token0 price tasti free textur good expens spice salti

Topic 18: 0s\_token0 tea love puppi yummi chang grass ingredi strong

Topic 19: 0s\_token0 delici tea weak mustard soy conveni coffe cat

perplexity = 10.3289486164

This iteration --- 134.34 seconds ---

=========== topic number = 25 ================

Topic 0: 0s\_token0 coffe great contain gluten aspartam bad love decept

Topic 1: product tast flavor pod work coffe like fun dog

Topic 2: wonder puppi kit control healthi eh happi decent mustard

Topic 3: 0s\_token0 sweet like mix bad tast expect spice strang

Topic 4: 0s\_token0 great flavor spici cat good disgust hard free

Topic 5: 0s\_token0 price expect pass box disgust size perfect tasti

Topic 6: 0s\_token0 love ok strong peanut bad buy fruit free

Topic 7: 0s\_token0 good best fat better flavor mustard ok qualiti

Topic 8: 0s\_token0 tea green wrong free bad littl sweeten textur

Topic 9: 0s\_token0 good crunchi mix smell pack item look hard

Topic 10: dog 0s\_token0 fuel actual ingredi weight healthi snack yummi

Topic 11: 0s\_token0 tea dog price bad healthi pasta mix treat

Topic 12: 0s\_token0 tast protein high oil eat hard fruit eh

Topic 13: tast snack licoric love eat cat grass oil flavor

Topic 14: 0s\_token0 tasti stuff jet spice tast gf noth pack

Topic 15: 0s\_token0 good treat yummi fantast fruit organ old great

Topic 16: 0s\_token0 good look expens product damag perfect cooki cat

Topic 17: 0s\_token0 great eat ok coffe spici textur gluten cracker

Topic 18: 0s\_token0 coffe cat pasta grass size noth weak treat

Topic 19: 0s\_token0 good bewar toy happi fantast perfect product coffe

Topic 20: 0s\_token0 good seed hard flavor like delici gf great

Topic 21: 0s\_token0 price horribl conveni delici fun expect expens fantast

Topic 22: 0s\_token0 buy great food like qualiti damag cooki chang

Topic 23: 0s\_token0 tea love anyon old best bitter organ pasta

Topic 24: realli eh best peanut cracker coffe okay better want

perplexity = 10.9422488001

This iteration --- 139.68 seconds ---

=========== topic number = 30 ================

Topic 0: 0s\_token0 tast coffe fun eh expect expens fantast fat

Topic 1: 0s\_token0 better littl size decent smooth spici jet bewar

Topic 2: price great 0s\_token0 good fuel protein butter eh expect

Topic 3: 0s\_token0 expens love pod box great fun eh expect

Topic 4: 0s\_token0 weak pass gluten great fat look price wonder

Topic 5: 0s\_token0 cat contain eat aspartam stuff disgust cooki vet

Topic 6: 0s\_token0 ok oil eh nice noth amazon healthi sweet

Topic 7: tea wonder tast pasta actual textur peanut contain soy

Topic 8: 0s\_token0 buy yummi perfect food like fuel coffe tast

Topic 9: great flavor horribl free protein expect expens dog ok

Topic 10: ok pack gluten puppi eat grass love look fun

Topic 11: 0s\_token0 like good expect mustard old dog better aspartam

Topic 12: 0s\_token0 free licoric worth fun eat eh expect expens

Topic 13: 0s\_token0 product salti love cat contain kit want crunchi

Topic 14: 0s\_token0 great spice decept disgust gf best expect tast

Topic 15: 0s\_token0 happi hard price food tea healthi free eat

Topic 16: 0s\_token0 flavor toy healthi old great product green bad

Topic 17: 0s\_token0 coffe dog flavor seed green okay smooth smell

Topic 18: 0s\_token0 product fantast pasta cooki mix sweet better weight

Topic 19: tast 0s\_token0 snack qualiti chip cat yummi look love

Topic 20: 0s\_token0 cat peanut ingredi seed size smell crunchi coffe

Topic 21: 0s\_token0 flavor dog sweet tast hard fruit old pass

Topic 22: good okay eat worth anyon stuff sweet weak happi

Topic 23: 0s\_token0 best realli coffe tast fantast damag bad horribl

Topic 24: 0s\_token0 good love buy great seed amazon high fruit

Topic 25: 0s\_token0 best strang coffe chai worth healthi eh expect

Topic 26: dog tasti strong bad ingredi licoric fat tast conveni

Topic 27: 0s\_token0 like coffe organ product chang cracker decent box

Topic 28: good mix wonder gf soy kit delici high conveni

Topic 29: 0s\_token0 control best sweeten qualiti cooki good buy green

perplexity = 11.1911410181

This iteration --- 158.23 seconds ---

=========== topic number = 50 ================

Topic 0: gluten old fun food great conveni okay eh expect

Topic 1: like love tea good horribl wonder 0s\_token0 fat free

Topic 2: 0s\_token0 flavor sweeten good high actual weight delici dog

Topic 3: 0s\_token0 mustard free product tasti expens seed better gf

Topic 4: great decent weak spici stuff 0s\_token0 fruit eat eh

Topic 5: good dog smooth cat vet damag fuel eat look

Topic 6: 0s\_token0 flavor good want dog stuff vet qualiti amazon

Topic 7: 0s\_token0 snack spice sweet pack disgust eat eh expect

Topic 8: perfect strang great fruit 0s\_token0 fuel eat eh expect

Topic 9: 0s\_token0 great coffe good okay kit wrong aspartam bad

Topic 10: 0s\_token0 weight great spici cracker mix decent expect horribl

Topic 11: 0s\_token0 wonder item anyon horribl best toy control fun

Topic 12: 0s\_token0 good look butter licoric wonder fuel dog eat

Topic 13: ok dog price flavor peanut conveni pasta chai fuel

Topic 14: 0s\_token0 amazon pod butter contain horribl littl pack actual

Topic 15: 0s\_token0 green think healthi great flavor dog yummi better

Topic 16: 0s\_token0 bewar green gf eat damag strong chang yummi

Topic 17: 0s\_token0 look hard soy old contain fuel eh expect

Topic 18: expect ok tasti tea love organ healthi puppi expens

Topic 19: 0s\_token0 pasta mix bad best fat wrong fantast expens

Topic 20: good treat ok buy gf eh expect expens fantast

Topic 21: 0s\_token0 eat size anyon gf eh expect expens fantast

Topic 22: 0s\_token0 seed eat worth decept best fantast tea fun

Topic 23: 0s\_token0 bad protein ingredi love food flavor price kit

Topic 24: tast love worth product decent best noth flavor fruit

Topic 25: 0s\_token0 tast protein littl product salti eat eh expect

Topic 26: 0s\_token0 coffe great love good disgust bad best aspartam

Topic 27: sweet coffe best noth spice treat cracker fat fantast

Topic 28: great control good buy 0s\_token0 box decept product fat

Topic 29: 0s\_token0 price strong tea fuel eat eh expect expens

Topic 30: 0s\_token0 eh coffe mix price crunchi cat ingredi expect

Topic 31: bad jet pod bitter food gf expect expens fantast

Topic 32: 0s\_token0 love treat like oil fuel realli ingredi aspartam

Topic 33: 0s\_token0 delici like textur pass dog fuel eh expect

Topic 34: 0s\_token0 tast size like cooki eh expect expens fantast

Topic 35: yummi better chip contain 0s\_token0 bad best expens fantast

Topic 36: disgust ingredi salti strang wonder chai best bitter flavor

Topic 37: 0s\_token0 dog cooki qualiti crunchi item ingredi eh expect

Topic 38: grass snack bewar ok oil nice buy tast smell

Topic 39: seed good perfect free dog tea buy think nice

Topic 40: 0s\_token0 tast fun licoric work fuel dog eat eh

Topic 41: 0s\_token0 best like coffe sweeten sweet anyon expens fantast

Topic 42: price work happi spice flavor stuff 0s\_token0 fruit eat

Topic 43: 0s\_token0 tasti healthi peanut eat eh expect expens fantast

Topic 44: 0s\_token0 tea tast product fat green fruit chang eh

Topic 45: 0s\_token0 price product eat weak toy fuel eh expect

Topic 46: coffe love 0s\_token0 happi jet expens fantast pass stuff

Topic 47: 0s\_token0 great contain pasta organ healthi hard eh expect

Topic 48: 0s\_token0 good cat puppi smell soy flavor qualiti great

Topic 49: 0s\_token0 high want pack realli gf gluten box tasti

perplexity = 12.8877693695

This iteration --- 179.86 seconds ---

=========== topic number = 75 ================

Topic 0: 0s\_token0 sweet healthi hard green good delici better gluten

Topic 1: 0s\_token0 tasti tast spici oil fun fuel eat eh

Topic 2: 0s\_token0 best flavor sweet gf eh expect expens fantast

Topic 3: coffe product spice great flavor think free 0s\_token0 fuel

Topic 4: 0s\_token0 work flavor tast fun eat eh expect expens

Topic 5: 0s\_token0 kit eat eh expect expens fantast fat flavor

Topic 6: cooki actual expens spice spici treat tea fruit eat

Topic 7: 0s\_token0 horribl like product fun eh expect expens fantast

Topic 8: price 0s\_token0 puppi product peanut strang conveni eat expect

Topic 9: love great chip decent damag grass food fuel fruit

Topic 10: 0s\_token0 puppi high wonder price fuel eh expect expens

Topic 11: tast weight expect wonder coffe flavor fuel fruit free

Topic 12: best seed decept love cat fun eh expect expens

Topic 13: 0s\_token0 want sweet fun eat eh expect expens fantast

Topic 14: 0s\_token0 snack buy yummi flavor perfect ok fuel eh

Topic 15: dog weak wrong qualiti fun eat eh expect expens

Topic 16: 0s\_token0 dog bad price cooki wonder eat coffe tea

Topic 17: jet delici hard okay fun eh expect expens fantast

Topic 18: 0s\_token0 smooth wonder buy gluten fuel eat eh expect

Topic 19: 0s\_token0 gluten conveni yummi smooth sweeten vet fat free

Topic 20: actual pack kit ingredi horribl eat eh expect expens

Topic 21: 0s\_token0 best free tast gf eh expect expens fantast

Topic 22: 0s\_token0 like eh buy yummi bad best expens fantast

Topic 23: 0s\_token0 eh product pasta dog expect expens fantast fat

Topic 24: great product good 0s\_token0 fun eh expect expens fantast

Topic 25: 0s\_token0 food coffe expect dog eh expens fantast fat

Topic 26: 0s\_token0 tast dog smell soy stuff fun eat eh

Topic 27: dog qualiti littl damag great organ fun expect expens

Topic 28: 0s\_token0 yummi amazon gluten expect expens fantast fat flavor

Topic 29: contain price 0s\_token0 size protein product soy oil free

Topic 30: 0s\_token0 expens healthi good fun eat eh expect fantast

Topic 31: 0s\_token0 tasti littl ok fuel seed amazon best gf

Topic 32: fat pasta like high textur great bitter flavor free

Topic 33: salti item fun eat eh expect expens fantast fat

Topic 34: 0s\_token0 seed eat eh expect expens fantast fat flavor

Topic 35: ok amazon love 0s\_token0 gf eh expect expens fantast

Topic 36: good snack green grass disgust 0s\_token0 fruit eat eh

Topic 37: wrong protein wonder nice think 0s\_token0 fat free food

Topic 38: 0s\_token0 great price fun eh expect expens fantast fat

Topic 39: 0s\_token0 price sweet smell fantast chai fuel eh expect

Topic 40: 0s\_token0 good pod green cat fun eh expect expens

Topic 41: good bad size like strang 0s\_token0 fuel eh expect

Topic 42: mix sweeten green great good 0s\_token0 eat eh expect

Topic 43: 0s\_token0 best gf eh expect expens fantast fat flavor

Topic 44: coffe decent better vet 0s\_token0 gf expect expens fantast

Topic 45: 0s\_token0 love want chai gf eh expect expens fantast

Topic 46: 0s\_token0 coffe dog eh expect expens fantast fat flavor

Topic 47: 0s\_token0 licoric snack peanut wrong disgust eat eh expect

Topic 48: 0s\_token0 coffe stuff good fuel free bitter mustard like

Topic 49: coffe love great cat salti 0s\_token0 eh expect expens

Topic 50: love old like look crunchi gf expect expens fantast

Topic 51: 0s\_token0 bewar cat work good organ food fuel fruit

Topic 52: tea look old fruit eh expect expens fantast fat

Topic 53: tast buy ingredi fat 0s\_token0 eh expect expens fantast

Topic 54: 0s\_token0 okay gf eh expect expens fantast fat flavor

Topic 55: great 0s\_token0 control cracker fun eh expect expens fantast

Topic 56: 0s\_token0 ok anyon healthi gf eh expect expens fantast

Topic 57: eat ingredi decent fun eh expect expens fantast fat

Topic 58: mustard better tast food chip jet anyon expens fantast

Topic 59: 0s\_token0 chang good price kit worth amazon aspartam gf

Topic 60: pasta puppi aspartam wonder happi 0s\_token0 fuel eh expect

Topic 61: 0s\_token0 sweet horribl expect treat disgust fuel eat eh

Topic 62: bad crunchi spice strong 0s\_token0 fuel eh expect expens

Topic 63: old mix pod ok fun eh expect expens fantast

Topic 64: 0s\_token0 like realli coffe fun eh expect expens fantast

Topic 65: love stuff noth high like chang tea good 0s\_token0

Topic 66: toy 0s\_token0 item gf happi snack great pack treat

Topic 67: 0s\_token0 flavor tea ingredi horribl eat eh expect expens

Topic 68: good perfect box tast wonder realli expect expens fantast

Topic 69: 0s\_token0 like best pass textur fun eh expect expens

Topic 70: 0s\_token0 worth product best fun eh expect expens fantast

Topic 71: flavor butter bad gf horribl tea happi treat great

Topic 72: 0s\_token0 better qualiti cracker fruit tea eat hard free

Topic 73: 0s\_token0 strong fun eat eh expect expens fantast fat

Topic 74: nice contain control cat great pack delici aspartam fat

perplexity = 14.5072341617

This iteration --- 160.37 seconds ---

对topic的标题进行分类：循环500次，90%作为training:

=========== topic number = 2 ================

Topic 0: good great tast coffe like love flavor dog price

Topic 1: 0s\_token0 best tast sweet healthi chocol littl excel decent

perplexity = 67.7332855046

This iteration --- 205.99 seconds ---

=========== topic number = 3 ================

Topic 0: 0s\_token0 dog tasti disappoint food buy ok favorit yummi

Topic 1: good tast coffe love tea bad sweet treat delici

Topic 2: 0s\_token0 great like price flavor product best cup chip

perplexity = 68.2135769751

This iteration --- 209.39 seconds ---

=========== topic number = 4 ================

Topic 0: 0s\_token0 coffe price good bad cup eat free realli

Topic 1: tast good great like flavor best product ok dog

Topic 2: 0s\_token0 love tea great food favorit snack sweet chip

Topic 3: 0s\_token0 tasti dog treat cat bad buy vanilla use

perplexity = 67.8053432124

This iteration --- 207.68 seconds ---

=========== topic number = 5 ================

Topic 0: 0s\_token0 good tasti price healthi flavor tast use sauc

Topic 1: good tast coffe best ok chip realli high thing

Topic 2: 0s\_token0 like tea buy favorit delici chocol yum okay

Topic 3: great love product bad flavor dog treat sweet cup

Topic 4: 0s\_token0 great price littl food mix bar horribl expect

perplexity = 67.6871252427

This iteration --- 208.43 seconds ---

=========== topic number = 6 ================

Topic 0: 0s\_token0 flavor disappoint bar use sugar littl bit great

Topic 1: 0s\_token0 tast cooki food natur strong healthi expens way

Topic 2: 0s\_token0 price buy sweet tea chip vanilla free stuff

Topic 3: great good dog bad treat ok cat horribl money

Topic 4: good tast coffe best hot flavor expect high sauc

Topic 5: like love product tea delici tasti price cup favorit

perplexity = 67.2460069369

This iteration --- 211.28 seconds ---

=========== topic number = 8 ================

Topic 0: tast great tasti good free flavor ok vanilla thing

Topic 1: 0s\_token0 flavor hot treat expens think contain salt tasti

Topic 2: 0s\_token0 tea best sweet tast mix yum sugar smell

Topic 3: coffe bad disappoint favorit best bar littl excel qualiti

Topic 4: 0s\_token0 good tast chip cat sauc decent tea nice

Topic 5: 0s\_token0 like love delici cup realli money ingredi terribl

Topic 6: 0s\_token0 buy okay want bewar fresh snack like appl

Topic 7: great price good product dog treat better healthi tast

perplexity = 67.6572159006

This iteration --- 213.81 seconds ---

=========== topic number = 10 ================

Topic 0: good love healthi cup coffe chip expens bewar sauc

Topic 1: 0s\_token0 dog tasti coffe want better buy popcorn chocol

Topic 2: 0s\_token0 product best treat sweet sugar eat candi favorit

Topic 3: great good tea flavor free best horribl cooki averag

Topic 4: 0s\_token0 flavor realli money excel spice organ worth strong

Topic 5: tast price love disappoint bad tasti okay mix coffe

Topic 6: 0s\_token0 coffe bad food snack bar sweet qualiti expect

Topic 7: 0s\_token0 packag ok favorit bitter way noth poor worst

Topic 8: 0s\_token0 like cat hot chocol high great time flavor

Topic 9: tast like delici ok 0s\_token0 yummi littl work oil

perplexity = 67.1435250029

This iteration --- 217.74 seconds ---

=========== topic number = 15 ================

Topic 0: 0s\_token0 money pod perfect wast soda son short bland

Topic 1: 0s\_token0 chip horribl pack salt time food spice snack

Topic 2: 0s\_token0 love price chocol expect best yummi peanut milk

Topic 3: flavor good dog cooki cup contain work delici littl

Topic 4: good tea bad 0s\_token0 healthi like vanilla packag cat

Topic 5: 0s\_token0 ok better amazon tasti pretti flavor china yum

Topic 6: 0s\_token0 good product tea flavor best candi decept love

Topic 7: tast ok dog eat smell work way wonder metal

Topic 8: 0s\_token0 love sweet mix weak cup natur worst everyth

Topic 9: great price disappoint 0s\_token0 qualiti free hot differ world

Topic 10: 0s\_token0 realli okay decaf littl sauc ingredi delici favorit

Topic 11: good treat thing yum food crunchi favorit oil fat

Topic 12: great coffe tast stuff cat bar sweet bitter kind

Topic 13: 0s\_token0 tasti excel tast bad old favorit puppi fat

Topic 14: 0s\_token0 like best tast buy organ want product great

perplexity = 68.1965316124

This iteration --- 227.96 seconds ---

=========== topic number = 20 ================

Topic 0: tast flavor price good vanilla organ excel stuff treat

Topic 1: 0s\_token0 best better water smooth surpris realli yummi gum

Topic 2: good tea coffe flavor price product decent healthi oil

Topic 3: 0s\_token0 tast fine cat plus maker fan chicken super

Topic 4: eat disappoint ok pretti treat bit pod crunchi bitter

Topic 5: great free tasti chip tast use decaf way nice

Topic 6: 0s\_token0 yum qualiti world soy differ vanilla seed tuna

Topic 7: 0s\_token0 love food bad bag ingredi look think work

Topic 8: good tast best realli bewar ok bar fresh treat

Topic 9: 0s\_token0 worth sauc tast bad brew vitamin blend chip

Topic 10: 0s\_token0 favorit expect tast better cat expens far vegan

Topic 11: good coffe sweet perfect popcorn wonder smell buy pack

Topic 12: 0s\_token0 like noth disappoint syrup help money overpr excit

Topic 13: tasti coffe great tast food yummi mix cooki candi

Topic 14: great product dog 0s\_token0 okay money littl expect realli

Topic 15: 0s\_token0 great yum worst horribl wish cracker recommend bad

Topic 16: 0s\_token0 like tea delici good flavor sugar old sweet

Topic 17: tast great love ok hot delici best cat price

Topic 18: bad dog like cup love best salti want chocol

Topic 19: 0s\_token0 cooki snack cup pack horribl natur expens work

perplexity = 69.2139607671

This iteration --- 238.4 seconds ---

=========== topic number = 30 ================

Topic 0: dog 0s\_token0 product eat fat love think peanut water

Topic 1: 0s\_token0 great cat packag snack hate kind soda food

Topic 2: like coffe tast great food blend love bar life

Topic 3: 0s\_token0 great good sauc use healthi oil small stevia

Topic 4: 0s\_token0 tea noth mix bitter market keurig standard like

Topic 5: flavor 0s\_token0 ok yummi great good happi product tea

Topic 6: 0s\_token0 flavor worst qualiti disappoint chip yum amaz awesom

Topic 7: 0s\_token0 tast coffe great good money easi expens granola

Topic 8: 0s\_token0 coffe care arriv rate lt popcorn juic heavi

Topic 9: price 0s\_token0 strong high realli qualiti salt like bag

Topic 10: 0s\_token0 great work okay decent best cooki water wonder

Topic 11: 0s\_token0 coffe terribl healthi flavor wrong wast chewer bunni

Topic 12: 0s\_token0 love thing poor bold sugar good breakfast recommend

Topic 13: bad cup chocol tast pasta contain conveni work tree

Topic 14: great better tasti buy free decaf son realli earl

Topic 15: 0s\_token0 treat ok tast snack soy differ wheat surpris

Topic 16: free sweet littl bar disappoint chip aftertast decent salti

Topic 17: 0s\_token0 product pod butter expir licoric belli mmmm breakfast

Topic 18: tast 0s\_token0 ok stuff price vanilla great expect tasti

Topic 19: good 0s\_token0 price fresh wonder best gluten okay flavor

Topic 20: good 0s\_token0 ingredi spici ounc winner tri treat red

Topic 21: 0s\_token0 tasti hot chicken pretti delici want best favorit

Topic 22: great coffe pack cat cooki love price quit treat

Topic 23: 0s\_token0 best dog box bit disappoint eat expect mix

Topic 24: 0s\_token0 product look work use cereal price origin want

Topic 25: delici price tast horribl treat yuck worth bewar way

Topic 26: good 0s\_token0 tast favorit organ yummi love true decent

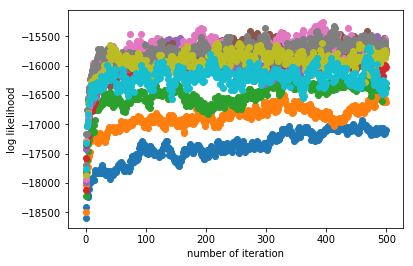
Topic 27: 0s\_token0 perfect natur sweet vanilla favorit fine calori excel

Topic 28: 0s\_token0 love fresh fantast oil flavor corn price eat

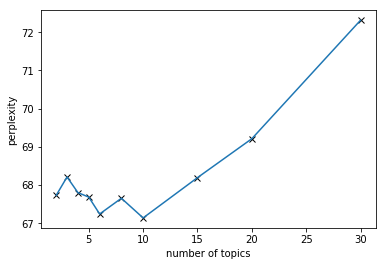
Topic 29: like tast best buy sweet chip sick cooki kid

perplexity = 72.3119199714

This iteration --- 261.14 seconds ---



Perplexity = [67.733285504579698, 68.213576975115927, 67.805343212433399, 67.687125242706401, 67.246006936900812, 67.657215900624294, 67.143525002949261, 68.1965316124368, 69.213960767121861, 72.311919971434577]



Topic = 10 分类：

=========== topic number =10 ================

Topic 0: 0s\_token0 dark flavor smell excit ginger green like amaz

Topic 1: 0s\_token0 ok like make tast love price dissapoint food

Topic 2: tast product best quantiti good perfect buy yuck size

Topic 3: 0s\_token0 ice strang strong salti excel candi wonder juic

Topic 4: 0s\_token0 buy dissapoint weak aw clean delici good ginger

Topic 5: great 0s\_token0 tasti expect butter water valu food ok

Topic 6: 0s\_token0 tea product dog drink green littl juic candi

Topic 7: 0s\_token0 cat coffe love qualiti cup chocol great tea

Topic 8: 0s\_token0 price food tasti tast clean bold like longer

Topic 9: 0s\_token0 good delici chocol eh tasti mustard dissapoint ginger

perplexity = 5.52636127604

awful after taste: (top topic: 2)

Very sweet: (top topic: 3)

Do NOT buy Salad Greens S: (top topic: 0)

Avoid: (top topic: 3)

Travel Size GF Juice: (top topic: 4)

just ok: (top topic: 1)

Wolfgang Puck Dark Roast: (top topic: 0)

Watered down tasting: (top topic: 5)

Grounds in my cup!: (top topic: 5)

Simply the best!: (top topic: 1)

============= binary classification ==================

binary word acc = 0.659970238095

binary lda acc = 0.649553571429

============= 3-class classification ==================

3-class word acc = 0.386904761905

3-class lda acc = 0.347470238095

This iteration --- 252.39 seconds ---

=========== topic number =10 ================

Topic 0: 0s\_token0 price great buy littl help aw bad base

Topic 1: 0s\_token0 tea ok tasti dark ice excel day cup

Topic 2: 0s\_token0 best dog ginger toy caus flavor ingredi recip

Topic 3: 0s\_token0 tast love decent valu yum want packag review

Topic 4: 0s\_token0 good cat dissapoint tast treat peanut mustard smell

Topic 5: 0s\_token0 high good delici noth wonder weird decent diarrhea

Topic 6: 0s\_token0 blueberri excit eat candi chocol expect chew bit

Topic 7: product tast delici price salti 0s\_token0 appl work aw

Topic 8: 0s\_token0 great flavor good green make qualiti yummi chip

Topic 9: 0s\_token0 great like food bold drink amaz healthi tasti

perplexity = 9.98538120274

Drinkable, not great: (top topic: 2)

awful after taste: (top topic: 0)

Not Much Variety: (top topic: 4)

Truly Awful: (top topic: 6)

In addition to price thes: (top topic: 0)

Very sweet: (top topic: 2)

Do NOT buy Salad Greens S: (top topic: 0)

Avoid: (top topic: 5)

Travel Size GF Juice: (top topic: 7)

just ok: (top topic: 1)

============= binary classification ==================

binary word acc = 0.655063291139

binary lda acc = 0.655063291139

============= 3-class classification ==================

3-class word acc = 0.465189873418

3-class lda acc = 0.34414556962

This iteration --- 251.66 seconds ---

=========== topic number =10 ================

Topic 0: good tasti 0s\_token0 ginger bit pack perfect chocol regular

Topic 1: 0s\_token0 love tast treat high eat healthi amazon dog

Topic 2: 0s\_token0 tea coffe realli product excel buy dog food

Topic 3: 0s\_token0 tea blueberri caus want vanilla bar buy chew

Topic 4: 0s\_token0 delici like price best bold food hot qualiti

Topic 5: 0s\_token0 best help favorit organ dri cat low terribl

Topic 6: tast great product cup appl candi money price butter

Topic 7: 0s\_token0 aw cat dissapoint chocol smell tasti tast recip

Topic 8: 0s\_token0 great bad littl strang ice dog noth excit

Topic 9: 0s\_token0 price ok like horribl dark flavor valu plus

perplexity = 12.6028787905

Drinkable, not great: (top topic: 6)

Plastic chocolate and sug: (top topic: 0)

awful after taste: (top topic: 6)

Not Much Variety: (top topic: 8)

Truly Awful: (top topic: 1)

In addition to price thes: (top topic: 5)

Very sweet: (top topic: 5)

DESCRIPTION IS INCORRECT: (top topic: 3)

Do NOT buy Salad Greens S: (top topic: 1)

Avoid: (top topic: 4)

============= binary classification ==================

binary word acc = 0.659109991604

binary lda acc = 0.655751469353

============= 3-class classification ==================

3-class word acc = 0.464315701092

3-class lda acc = 0.349286314022

This iteration --- 248.82 seconds ---

=========== topic number =10 ================

Topic 0: tast 0s\_token0 like great cat tasti bacon buy qualiti

Topic 1: good tea 0s\_token0 food cup horribl excel smell metal

Topic 2: 0s\_token0 great coffe free chip contain yummi treat ship

Topic 3: 0s\_token0 best ok delici organ bad eat appl salti

Topic 4: 0s\_token0 product bad butter chocol recommend green think treat

Topic 5: 0s\_token0 weak make tasti fantast perfect amaz chang love

Topic 6: 0s\_token0 love dog blend candi snack great mustard yuck

Topic 7: 0s\_token0 flavor aw amazon regular work dri fresh dissapoint

Topic 8: 0s\_token0 tast tea better buy dark brand food hot

Topic 9: 0s\_token0 price product chocol jet expens vanilla cat close

perplexity = 17.8696289617

You will love it or hate : (top topic: 1)

Drinkable, not great: (top topic: 2)

Plastic chocolate and sug: (top topic: 0)

awful after taste: (top topic: 0)

Not Much Variety: (top topic: 9)

Truly Awful: (top topic: 3)

In addition to price thes: (top topic: 7)

Very sweet: (top topic: 9)

DESCRIPTION IS INCORRECT: (top topic: 2)

Worst order processing ev: (top topic: 2)

============= binary classification ==================

binary word acc = 0.677142857143

binary lda acc = 0.660952380952

============= 3-class classification ==================

3-class word acc = 0.506666666667

3-class lda acc = 0.357142857143

This iteration --- 270.51 seconds ---

=========== topic number =10 ================

Topic 0: 0s\_token0 free bean strong quit sweet way pump okay

Topic 1: 0s\_token0 bad great tea old strang good ounc order

Topic 2: 0s\_token0 tast cat love cooki money eat dark disappoint

Topic 3: great flavor delici tast product cup tasti love chip

Topic 4: dog chocol 0s\_token0 wonder bold candi aw like use

Topic 5: 0s\_token0 food tea terribl excel ginger contain mislead fresh

Topic 6: tast good like best ok decent product averag tasti

Topic 7: 0s\_token0 price coffe good yummi sweet packag hot spice

Topic 8: 0s\_token0 great realli treat work horribl amaz high smell

Topic 9: 0s\_token0 good product coffe organ disappoint buy tea natur

perplexity = 33.8969831108

You will love it or hate : (top topic: 2)

Disappointed: (top topic: 2)

Very berry, but very grea: (top topic: 0)

Drinkable, not great: (top topic: 3)

Buyer beware - (1) whole : (top topic: 4)

Guilt-Free but not that g: (top topic: 0)

Plastic chocolate and sug: (top topic: 3)

awful after taste: (top topic: 4)

As expected: (top topic: 8)

Not Much Variety: (top topic: 5)

============= binary classification ==================

binary word acc = 0.704054054054

binary lda acc = 0.678378378378

============= 3-class classification ==================

3-class word acc = 0.508108108108

3-class lda acc = 0.382432432432

This iteration --- 251.55 seconds ---

=========== topic number =10 ================

Topic 0: good bad product ok money thing snack stuff yum

Topic 1: 0s\_token0 tasti disappoint love cup product tea sauc horribl

Topic 2: great price best cooki wonder contain strong wrong differ

Topic 3: 0s\_token0 work chip sweet fresh buy bit decent free

Topic 4: 0s\_token0 dog best flavor tea ok vanilla great better

Topic 5: coffe tast sweet perfect excel free buy poor chocol

Topic 6: 0s\_token0 qualiti okay hot want worth food natur salt

Topic 7: like 0s\_token0 love eat bar ingredi mix price yummi

Topic 8: 0s\_token0 love dog use expect averag popcorn water tea

Topic 9: tast flavor treat great delici littl oil smell pod

perplexity = 59.9916802033

Captures that movie theat: (top topic: 5)

You will love it or hate : (top topic: 2)

Ok but most cans dented: (top topic: 4)

Take a vitamin instead: (top topic: 1)

A little too much bittern: (top topic: 3)

Not bad: (top topic: 0)

I like tea.: (top topic: 4)

Pleasant but nothing to g: (top topic: 3)

WAYY overpriced: (top topic: 1)

Disappointed: (top topic: 1)

============= binary classification ==================

binary word acc = 0.68284789644

binary lda acc = 0.669902912621

============= 3-class classification ==================

3-class word acc = 0.540453074434

3-class lda acc = 0.355987055016

This iteration --- 237.43 seconds ---

