PHONETIC ALPHABET PHONEME CONVERSION TABLE Espeak-NG to S.A.M.

The example words have the sound of the phoneme, not necessarily the same letters.

VOWELS				
Espeak	SAM	Example		
i:	IY	f ee t		
I	IH	p i n		
E	EH	b e g		
a	AE	Sam		
0	AA	p o t		
V	AH	b u dget		
O :	AO talk			
οU	ОН	c o ne		
U	UH	b oo k		
u:	UX	loot		
3:	ER	b ir d		
a	AX	g a llon		
I	IX	d i git		
	DIPTHO	NGS		
Espeak	SAM	Example		
eI	EY	m a de		
aI	AY high			
OI	OY	b oy		
aU	AW how			
οU	OW	sl ow		
u:	UW	cr ew		

VOICED CONSONANTS				
Espeak	SAM	Example		
r	R	red		
l:	L	a ll ow		
CUT	W	a w ay		
CUT	WH	wh ale		
j	Y	y ou		
m	M	Sam		
n	N	ma n		
N	NX	so ng		

CUTBbadCUTDdogCUTGagaindZJjudge			
CUT G again			
dZ J iudge	<u> </u>		
- J			
z Z z00			
ZH ZH pleasu	re		
v V seven	1		
D DH then			
UNVOICED CONSONANTS			
s S Sam			
S SH fish			
f F fish			
T TH thin			
p P poke			
t T talk			
k K cake			
ts CH speecl	h		
h _ H (/H) a h ead	l		

SPECIAL PHONEMES			
Espeak	SAM	Example	
@L	UL	sett le	
@m	UM	astron om y	
@n	UN	functi on	
Blank Sound	0	kitt-en (glottal	
Sound	Q	stop)	

The following symbols are used internally by some of S.A.M.'s rules, but they are also available to the user.

* CUT - These had to be edited from Espeak-NG spoken words to create the right sounds

Espeak	SAM	Example	
CUT	YX	say	(diphthong ending)
Does not exist in dictionary	WX	saw	(diphthong ending)
Does not exist in dictionary	RX	bar	(R after a vowel)
Does not exist in dictionary	LX	call	(L after a vowel)
Does not exist in dictionary	/X	h ead is using	(H before a non-front vowel/consonant) Sam g /H?
Does not exist in dictionary	DX	pi t y	"flap" as in pi t y

To generate the sound wav files that make up the phonemes, the program Espeak-NG was used. Most phonemes could be generated using the phoneme espeak record to wav file command:

espeak-ng -w H.wav -ven-us [[h]]

Since espeak-ng does a lot of rule based phoneme changes based on whether the letter is after a vowel, etc., some phoneme sounds had to be created by having espeak-ng say the example word, and editing the sound file to cut out the particular phoneme sound. This is an example of a command to record a word with espeak-ng:

espeak-ng -w call.wav -ven-us "call"

Here is an example of displaying the espeak-ng phonemes made to create a word. Note that although it showes the phonemes used, the phonemes may be pronounced differently by espeak-ng because of the rules lists that espeak-ng uses. But for many phonemes, this is helpful.

espeak-ng -x -ven-us "pity" which returns p'It#i

Note that S.A.M.'s ENGLISH-TO-PHONETIC SPELLING DICTIONARY includes numbers that represent emphasis on certain phonemes to pronounce the words. This has not yet been implemented, though adjustments to the phonemes could be made within Teensy's Audio library to implement similar features ... and possibly more.

For

This information was gathered in part from the S.A.M. manual, located here: http://www.retrobits.net/atari/sam.shtml and Espeak-NG information was added by Walter Dunckel radiohound@gmail.com

ENGLISH-TO-PHONETIC SPELLING DICTIONARY

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z DAYS OF THE WEEK

MONTHS OF THE YEAR

NUMBERS

STATES AND PROVINCES

UNITS

- A -

abandon = AHBAE4NDUNability = AHBIH4LIXTIY able = EY4BULabort = AHBOH4RTabout = AHBAW4Tabove = AHBAH4Vabsolute = AE5BS0HLUW4T abuse = AHBYUW4Saccelerate = EHKSEH4LEREYT accent = AE4KSEHNTaccept = AEKSEH4PTaccess = AE4KSEHSaccident = AE4KSIXDEHNT account = AHKAW4NTacknowledge = EHKNA4LIHJ action = AE4KSHUN active = AE4KTIHV address = AE4DREHS adjust = AHJAH4STadult = AHDAH4LTadvance = EHDVAE4NS adventure = AEDVEH4NCHER affair = AHFEY4Rafford = AHFOH4RDafter = AE4FTERage = EY4Jagree = AHGRIY4air = EH4Rairplane = EH4RPLEYNalarm = AHLAA4RMalgebra = AE4LJAXBRAHalien = EY4LIYIXN allow = AHLAW4alone = AHLOW4Nalong = AHLAO4NXalphabet = AE4LFAXBEHTalternate = AO4LTERNIXT America = AHMEH4RIXKAHamong = AHMAH4NXanalysis = AHNAE4LIXSIXS

and = AE4NDanger = AE4NXGERannounce = AHNAW4NSanswer = AE4NSERantenna = AENTEH4NAHanticipate = AENTIH4SIXPEYT apology = AHPAA4LAXJIYappear = AHPIY4Rapple = AE4PULappropriate = AHPROH4PRIYIXT approve = AHPRUW4V area = EH4RIYAHarm = AA4RMarrive = AHRAY4Vask = AE4SKassumption = AHSAH4MPSHUNastronomy = AHSTRAA4NUMIYAtari = AHTAA4RIYatom = AE4TUMattack = AHTAE4Kaudio = AO4DIYOWauthority = AHTHOH4RIXTIYautomatic = A05TUMAE4TIXK auxiliary = AOKZIH4LYERIY available = AHVEH4LAXBUL

- B -

boot = BUW4T

baby = BEY4BIYback = BAE4Kbad = BAE4Dbalance = BAE4LIXNS bank = BAE4NXKbargain = BAA4RGUN base = BEY4Sbasic = BEY4SIHKbattle = BAE4TUL beam = BIY4Mbeautiful = BYUW4TIXFUHL behave = BIY/HEY4Vbelief = BIXLIY4F beneficial = BEH4NAXFIH4SHUL betray = BIYTREY4better = BEH4TERbible = BAY4BUL bibliography = BIH5BLIYAA4GRAXFIY bicycle = BAY4SIXKUL billion = BIH4LYUN binary = BAY4NEHRIYbite = BAY4Tblack = BAE4Kblast = BLAE4STblock = BLAA4Kblood = BLAH4Dboard = BOH4RDbomb = BAA4Mbook = BUH4K

boss = BA04Sbottle = BAA4TUL bottom = BAA4TUMbox = BAA4KSboy = B0Y4brain = BREY4Nbranch = BRAE4NCHbreak = BREY4Kbrief = BRIY4F bring = BRIH4NXbroken = BROW4KIXN brother = BRAH4DHERbudget = BAH4JIXT buffer = BAH4FERbug = BAH4Gbureau = BYER40W burglar = BER4GULER bus = BAH4Sbusiness = BIH4ZNIXS busy = BIH4ZIYby = BAY4byfe = BAY4T

- C -

cabinet = KAE4BUNIXT cable KEY4BUL calculate = KAE4LKYAXLEYT calendar = KAE4LUNDERcall = KA04Lcalorie = KAE4LERIY cancel = KAE4NSULcandy = KAE4NDIYcant = KAE4NTcapacity = KAXPAE4SIXTIYcaptain = KAE4PTIXNcapture = KAE4PCHER card = KAA4RDcareful = KEH4RFUHL carry = KEH4RIYcartridge = KAA4RTRIXJ case = KEY4Scashier = KAE4SHIY4Rcassette = KAXSEH4T catalog = KAE4TULAOG celebrate = SEH4LAXBREYT celestial = SULEH4SCHIYUL Celsius = SEH4LSIYAXS center = SEH4NTERcertain = SER4TQNchallenge = CHAE4LIXNJ change = CHEY4NJchannel = CHAE4NULchapter = CHAE4PTERcharge = CHAA4RJchauvenism = SHOH4VIXNIHZUM Cheese = CHIY4Zchild = CHAY4LD

children = CHIH4LDRIXN chocolate = CHAO4KLIXT choreography = KOH5RIYAA4GRAXFIYChristmas = KRIH4SMAXS church = CHER4CHcinema = SIH4NUMAHcircle = SER4KUL circuit = SER4KIXT circumstance = SER4KUMSTAENS citizen = SIH4TIXSUN city = SIH4TIYclassify = KLAE4SIXFAY clear = KLIY4Rclose = KLOW4Zcoaxial = KOHAE4KSIYUL coffee = KAO4FIYcoherent = KOW/HEH4RIXNT cold = KOW4LDcollege = KAA4LIXJcolor = KAH4LER comfortable = KAH4MFTERBUL command = KUMAE4NDcommon = KAA4MUN company = KAHM4PUNIYcomplain = KUMPLEY4N complex = KUMPLEH4KScomponent = KAHMPOH4NUNT computer = KUMPYUW4TER condition = KUNDIH4SHUN conscience = KAA4NSHUNTS console = KAA4NSOHL control = KUNTROH4L conversation = KAA5NVERSEY4SHUN coordinate = KOHWOH4DUNIXT corporation = KOH5RPEREY4SHUN correction = KOHREH4KSHUN count = KAW4NTcountry = KAH4NTRIY cousin = KAH4ZIXNcreate = KRIYEY4T critical = KRIH4TIXKUL culture = KAH4LCHER curious = KYUH4RIYAXS

- D -

danger = DEY4NJER
data = DEY4TAH
decay = DIXKEY4
decibel = DEH4SIXBUL
decrease = DIYKRIY4S
definition = DEH5FUNIH4SHUN
degree = DIXGRIY4
delay = DIXLEY4
demonstrate = DEH4MUNSTREYT
department = DIYPAA4RTMIXNT
desire = DIXZAY4ER
develop = DIXVEH4LAHP

dictionary = DIH4KSHUNEHRIY different = DIH4FRIXNT discount = DIH4SKAWNT distance = DIH4STIXNS distribution = DIH5STRAXBYUW4SHUN division = DIXVIH4ZHUN doctor = DAA4KTER double = DAH4BUL down = DAW4N drive = DRAY4V dungeon = DAH4NJUN

- E -

earth = ER4THeasy = IY4ZIYeconomics = IY5KUNAA4MIXKS education = EH5JUWKEY4SHUN either = IY4DHEReject = IXJEH4KTelectricity = ULEHKTRIH4SIXTIY electronic = ULEHKTRAA4NIXK elementary = EH4LUMEH4NTRIYemphasis = EH4MFAXSIHSencyclopedia=EHNSAY5KLAXPIY4DIYAH energy = EH4NERJIYengineering = EH5NJUNIY4RIHNX enter = EH4NTERenunciate = IYNAH4NSIYEYT equal = IY4KWULerase = IXREY4Serror = EH4R0HRescape = EHSKEY4Pestimate = EH4STUMIXT Europe = YUH4RAXPevil = IY4VUL exciting = EHKSAY4TIHNXexplain = EHKSPLEY4Nexpression EHKSPREH4SHUN extra = EH4KSTRAH

- F -

face = FEY4S
fail = FEY4L
Fahrenheit = FEH4RIXN/HAYT
false = FAO4LS
family = FAE4MULIY
fast = FAE4ST
fatal = FEY4TUL
father= FAA4DHER
fault = FAO4LT
female = FIY4MEYL
fight = FAY4T
figure = FIH4GYER
file = FAY4L
filter= FIH4LTER6

finance = FAY4NAENS find = FAY4NDfinger = FIH4NXGERfinish = FIH4NIXSHfire = FAY4ERfirst = FER4STflavor = FLEY4VER flight = FLAY4Tflow chart = FLOW4CHAARTflower = FLAW4ERfluorescent = FLUHREH4SIXNT focus = FOW4KAXSfollow = FAA4LOWfoot = FUH5Tforce = FOH4RSformula = FOH4RMYUXLAHforward = FOH4RWERDfraction = FRAE4KSHUN fragile = FRAE4JULfreedom = FRIY4DUMfrequency = FRIY4KWUNSIY from = FRAH4Mfuel = FYUW4Lfull = FUH4Lfunction = FAH4NXKSHUN fundamental = FAH5NDUMEH4NTUL fuse = FYUW4Zfusion = FYUWSZHUN future = FYUW4CHER - G gain = GEY4Ngalaxy = GAE4LAXKSIYgame = GEY4Mgarbage = GAA4RBIXJ gasoline = GAE4SULIYN gate = GEY4Tgeneral = JEH4NERUL generate = JEH4NEREYT genius = JIY4NYAXS gentle = JEH4NTUL genuine = JEH4NUYXIXN geometry = JIYAA4MIXTRIY get = GEH4Tgiant = JAY4IXNTgift = GIH4FTglass = GLAE4Sgnome = NOW4Mgo = GOW4gold = GOH4LDgood = GUH4Dgourmet = GUHRMEY4 government = GAH4VERNMEHNT grand = GRAE4NDgraphic = GRAE4FIXKgravity = GRAE4VIXTIY ground = GRAW4ND

guarantee = GAE4RIXNTIY4
guide = GAY4D
gun = GAH4N
gyroscope = JAY4RAXSKOWP

- H -

habit = /HAE4BIXThacker = /HAE4KERhair = /HEH4Rhalf = /HAE4Fhallucination = /HULUW4SIXNEY5SHUN hand = /HAE4NDhappy = /HAE4PIYhardware = /HAA4RDWEHR harmony = /HAA4RMUNIY have = /HAE4Vhead = /HEH4Dheart = /HAA4RThelicopter = /HEH4LIXKAAPTER hello = /HEH4LOW here = /HIY4Rhero = /HIY4ROWherta = /HER4TShesitate = /HEH4ZIXTEY6T hexadecimal = !HEH5KSIXDEH4SUMUL high = /HAY4history = /HIH4STERIY hobby = /HAA4BIYhold = /HOW4LDhome = /HOW4Mhonest = AA4NIXSThoroscope = /HOH4RAXSKOWP hospital = /HAA4SPIXTUL hour = AW4ERhouse = /HAW4Showever = /HAWEH4VERhuge /HYUW4J human = /HYUW4MUNhumor = /HUYW4MERhusband = /HAH4ZBUNDhyper = /HAY4PERhypothesis = /HAYPAA4THAXSIHS

- I -

I = AY4
ice = AY4S
idea = AYDIY4AX
identical = AYDEH4NTIXKUL
identity = AYDEH4N11XTIY
illusion = IHLUX4ZHUN
image = IH4MIXJ
imagination = IHMAE4JIXNEY5SHUN
immobilize = IXMOH4BULAYZ
important = IHMPOH4RTUNT
in = IH4N

inch = IHN4CHincluded = IHNKLUX4DIXDincome = IH4NKUM inconvenient = IHN5KUNVIY4NYUNT increase = IHNKRIY4S indeed = IHNDIY4Dindex = IH4NDEHKSindicate = IH4NDIXKEYT indirect = IH5NDEREH4KT individual = IH5NDIXVIH4JUWUL industry = IH4NDAHSTRIY inferior = IHNFIH4RIYER inflation = IHNFLEY4SHUN influence = IH4NFLUWIXNS information = IH5NFERMEY4SHUN -ing = IHNXinject = IHNJEH4KTinjure = IH4NJER initial = IXNIH4SHUL inside = IHNSAY4Dinspect = IHNSPEH4KTinsulator = IH4NSULEYTER integer = IH4NTIXJERintelligent = IHNTEH4LIXJIXNT interest = IH4NTREHST interference = IH4NTERFIY4RIXNS intermittent = IH4NTERMIH4TNNT invader = IHNVEY4DER invent = IHNVEH4NTinverse = IH4NVERS involve = IHNVAA4LV iron = AY4ERNirrational = IHRAE4SHUNUL isolate = AY4SULEYT issue = IH4SHUW item = AY4TUM- J jacket = JAE4KIXT jam = JAE4Mjargon = JAA4RGUNjazz = JAE4Zjiffy = JIH4FIY job = JAA4Bjoin = JOY4Njoke = JOW4Kjudge = JAH4Jjump = JAH4MPjunction = JAH4NXKSHUN junior = JUW4NYER iust = JAH4STjail = JEY4L jewelry = JUW4LRIYjourney = JER4NIYjungle JAH4NXGUL junk = JAH4NXK

keep = KIY4P
key = KIY4
keyboard = KIY4B0HRD
kilobyte = KIH4LAXBAYT
kind = KAY4ND
kingdom = KIH4NXGDUM
knight = NAY4T
knowledge = NAA4LIXJ

- L -

label = LEY4BULlady = LEY4DIYlanguage = LAE4NXGWIXJ large = LAA4RJlaser = LEY4ZERlast = LAE4STlate = LEY4Tlaugh = LAE4Flaunch = LAO4NCHlaw = LA04layer = LEY4ERlead = LIY4Dlease = LIY4Slecture = LEH4KCHER left = LEH4FTlegal = LIY4GUL legend = LEH4JIXNDleisure = LIY4ZHER length = LEH4NTHletter = LEH4TERlevel = LEH4VULliberal = LIH4BERUL life = LAY4Flift = LIH4FTlight = LAY4Tlike = LAY4Klimit = LIH4MIXTlinear = LIH4NIYERliquid = LIH4KWIXDlist = LIH4STlisten = LIH4SIXNliterature = LIH4TERIXCHER little = LIH4TU load = LOW4Dlocal = LOW4KULlocation = LOWKEY4SHUN lock = LAA4Klogarithm = LAO4GERIH5DHUM logical = LAA4JIHKUL

long = LAO4NX look = LUH4K loop = LUW4P lose = LOW4Z love = LAH4V low = LOW4
loyal = LOY4UL
luminescence = LUW4MIXNEH5SIXNS
lunatic = LUW4NAXTIH6K
luxury = LAH4GZHERIY

- M -

machine = MAXSHIY4N madam = MAE4DUMmade = MEY4Dmagazine = MAEGAXZIY4Nmagic = MAE4JIHKmagnet = MAE4GNIXT magnitude = MAE4GNIHTUX5D mail = MEY4Lmain = MEY4Nmajor = MEY4JERmake = MEY4Kmalfunction = MAE5LFAH4NXKSHUN man = MAE4Nmanager = MAE4NIXJER maneuver = MUNUW4VERmanipulate = MUNIH4PYUHLEYT manual = MAE4NYUWUL manufacture = MAE5NUYXFAE4KCHER many = MEH4NIY marginal = MAA4RJIXNUL market = MM4RKIXTmarriage = MEH4RIXJmass = MAE4Smaster = MAE4STERmate = MEY4Tmaterial = MAXTIH4RIYUL mathematics = MAE4THUMAE5TIXKS mature = MAXCHUX4Rmaximum = MAE4KSIXMUM may = MEY4meaning = MUY4NIHNX measure = MEH4ZHERmechanical = MIXKAE4NIHKUL mechanism = MEH4KUNIHZUM media = MIY4DIYAH medical = MEH4DIXKUL medium = MIY4DIYUM member = MEH4MBERmemory = MEH4MERIY mental = MEH4NTUL menu = MEH4NYUW merchandise = MER4CHUNDAY5S merge = MER4Jmetal = MEH4TULmeter = MIY4TERmethod = MEH4THIXDmicro = MAY4KROW6 middle = MIH4DUL might = MAY4Tmile = MAY4L

military = MIH4LIXTEH6RIY million = MIH4LYUN mind = MAY4NDmineral = MIH4NERUL miniature = MIH4NIYAXCHER minimum = MIH4NIXMUM minus = MAY4NIXS miracle = MIH4RIXKUL miscellaneous = MIH5SULEY4NIYAXS missile = MIH4SUL mister = MIH4STERmixture = MIH4KSCHER mnemonic = NIXMAA4NIXK model = MAA4DULmodulation = MAA4JULEY5SHUN molecule = MAA4LIXKYUWL moment = MOH4MIXNT money = MAH4NIYmonitor = MAA4NIXTERmonolithic = MAANULIH4THIXK monotone = MAA4NAXTOW6N month = MAH4NTHmoon = MUW4Nmorning = MOH4RNIHNX most = MOW4STmother = MAH4DHERmotion = MOW4SHUN motor = MOW4TER mouth = MAW4THmove = MUW4Vmuch = MAH4CH

- N -

naive = NAY5IY4Vname = NEY4Mnarrate = NAE4REYTnarrow = NAE4ROW natural = NAE4CHERUL nature = NEY4CHERnavigate = NAE4VIXGEYT near= NIY4R need = NIY4Dnegative = NEH5GAXTIH6V negotiate NIXGOW4SHIYEYT neighborhood = NEY4BER/HUH6D nerve = NER4Vneutral = NUX4TRUL news = NUW4Znice = NAY4S

multiply = MAH4LTIX6PLAY

murder = MER4DER
muscle = MAH4SUL
music = MYUW4ZIXK
must = MAH4ST
my = MAY4

myself = MAYSEH4LF
mystery = MIH4STERIY

night = NAY4T
noise = NOY4Z
nomenclature = NOH4MIXNKLEY6CHER
none = NAH4N
normal = NOH4RMUL
north = NOH4RTH
nose = NOW4Z
notation = NOHTEY4SHUN
notice = NOW4TIXS
nothing = NAH4THIHNX
now = NAW4
nuclear = NUX4KLIYER
number= NAH4MBER

- 0 -

object = AA4BJEHKTobligation = AA5BLIXGEY4SHUN observe = AXBZER4Vobvious = AA4BVIYAXS occational = AHKEY4ZHUNUL occupation = AA5KYUXPEY4SHUN ocean = OW4SHUN odd = AA4Dof = AH4Voff = A04Foffer = A04FERoffice = AO4FIXSofficial = AHFIH4SHUL ogre = OW4GERohm = OW4Moil = 0Y4L0.K. = 0W4KEYold = OW4LDomen = OW4MUNon = AA4Nopen = 0W4PUNoperate = AA4PEREYTopinion = AHPIH4NYUN oppose = AHPOW4Zopposite = AA4PAXSIHT option = AA4PSHUN orbit = OH4RBIHT orchestra = OH4RKEHSTRAHorder = OH4RDERordinary = OH4RDIXNEHRIY organize = OH4GUNAYZorigin = OH4RIXJIXN oscillation = AA5SULEY4SHUN other = AH4DHERought = A04Tout = AW4Toutlet = AW4TLEHToutput = AW4TPUHToutside = AWTSAY4D over = OW4VERown = ow4N

oxygen = AA4KSAXJIXN

pack = PAEPAE4Kpackage = PAE4KIXJpage = PEY4J paint = PEY4NT pair = PEH4Rpalace = PAE4LIXSpanel = PAE4NULpaper = PEY4PERparabola = PERAE4BULAH paradox = PAE4RAXDAA6KSparallel = PAE4RULEH6Lparagraph = PAE4RAXGRAEFpardon = PAA4RDUNparent = PEH4RUNT parity = PAE4RIXTIY park = PAA4RKpart = PAA4RTparticle = PAA4RTIXKUL particular = PAARTIH4KYUHLER pass = PAE4Spatch = PAE4TCHpathetic = PAHTHEH4TIXK pattern = PAE4TERN pause = PA04Zpay = PEY4payroll = PEY4ROW6L peculiar = PIXKYUW4LYER penalty = PEH4NULTIY4 penetrate = PEH4NAXTREY6T perception = PERSEH4PSHUN perfect = PER4FIXKT period = PIH4RIYIXD permanent = PER4MUNIXNT permission = PERMIH4SHUN person = PER4SUNpersonality = PER4SUNAE5LIX1 perspective = PERSPEH4KTIXV pet = PEH4Tphantom = FAE4NTUM phase = FEY4Zphenomenon = FUNAA4MIXNU philosophy = FULAA4SAHFIY phoneme = FOW4NIYM photo = FOW4TOWphysical = FIH4ZIXKUL physics = FIH4ZIXKSpiano = PYAE4NOWpick = PIH4Kpicture = PIH4KCHER pilot = PAY4LIXT pin = PIH4Npirate = PAY4RIXT pistol = PIH4STUL pitch = PIH4TCH pity = PIH4TIY

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place = PLEY4S
plan = PLAE4N
planet = PLAE4NIXT
plastic = PLAE4STIxK
plausible = PLAO4ZAXBUL
play = PLEY4
please = PLIY4Z
pleasure = PLEH4ZHER
plectrum = PLEH4KTRUM
plenty = PLEH4NTIY
plot = PLAA4T
plug = PLAH4G
plus = PLAH4S
poetry = POW4IXTRIY
point = POY4NT
poke = POW4K
police = PULIY4S
policy = PAA4LIXSIY
polynomial = PAA5LIXNOH4MIYUL
pop = PAA4P
popular = PAA4PYULER
population = PAA4PYULEY4SHUN
port = POH4RT
portable = POH4RTAXBUL
positive = PAA4ZIXTIX6V
position = PAXZIH4SHUN
power= PAW4ER
practice = PRAE4KTIHS
precise = PRIXSAY4S
prefer = PRIXFER4
preliminary = PREIXLIH4MIXNEHRIY
prepare = PRIXPEH4R
present = PREH4ZIXNT
press = PREH4S
pressure = PREH4SHER
prevent = PRIXVEH4NT
primary = PRAY4MEHRIY
primitive = PRIH4MIXTIX6V
prince = PRIH4NS
princess = PRIH4NSEHS
print = PRIH4NT
private = PRAY4VIXT
probably = PRAA4BAXBLIY
problem = PRAA4BLUM
proceed = PROHSIY4D
process = PRAA4SEHS
produce = PRAXDUW4S
professional = PRAXFEH4SHUNUL
professor = PRAHFEH4SER
profit = PRAA4FIXT
program = PROW4GRAEM
project = PRAA4JEHKT
promise = PRAA4MIHS
pronounce = PRUNAW4NS
proper = PRAA4PER
proportional = PRAXPOH4RSHUNUL
protect = PRAXTEH4KT
proud = PRAW4D
psychiatrist = SAYKAY4AXTRIX6ST
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public = PAH4BLIXK
publish = PAH4BLIHSH
pull = PUH4L
pulse = PAH4LS
pure = PYUW4R
push = PUH4SH
put = PUH4T

- Q -

quality = KWAA4LIXTIY
quantity = KWAA4NTIXTIY
question = KWEH4SCHUN
quick= KWIH4K
quiet = KWAY4IXT
quit = KWIH4T
quiz = KWIH4Z
quote = KWOW4T
quotient = KWOW4SHUNT

- R -

race = REY4Sradar = REY4DAARradiation = REY5DIYEY4SHUN radio = REY4DIYOW radius = REY4DIYAHS rain = REY4Nrandom = RAE4NDUMrange = REY4NJrare = REH4Rrate = REY4Trather = RAE4DHERratio = REY4SHIYOW reach = RIY4CHreaction = RIYAE4KSHUN read = RIY4Drealistic = RIY5LIH4STIXK reason = RIY4ZUNreceive = RIXSIY4V reciter = RIXSAY4TERrecognize = REH4KAXGNAYZrecommend = REH5KUMEH4NDrecord = REH4KERDrecover = RIYKAH4VER rectangle = REH4KTAENXGUL reduce = RIXDUW4Srefer = RIYFER4 reference = REH4FERIXNS reflection = RIXFLEH4KSHUN refrigerator = RIXFRIH4JEREYTER region = RIY4JUN register = REH4JIXSTER regular = REH4GYUXLERreject = RIXJEH4KTrelativity = REH5LAXTIH4VIXTIY relax = RIXLAE4KS

relay= RIY4LEY release = RIXLIY4S relief = RIYLIY4F religion = RIXLUH4JUN remain = RIYMEY4Nremember = RIXMEH4MBERremove = RIYMUX4Vrent = REH4NTrepeat = RIXPIY4Treplace = RIXPLEY4Sreply = RIXPLAY4report = RIXPOH4RTrepresent = REHPRIXZEH4NTreproduction = RIY5PRAXDAH4KSHUN republic = RIXPAH4BLIXK rescue = REH4SKYUW research = RIY4SERCH reserve = RIXZER4V resistance = RIXZIH4STUNS respect = RIXSPEH4KTresponse = RIXSPAA4NSrest = REH4STrestore = RIXSTOH4Rretail = RIY4TEY6Lreturn = RIXTER4N reverse = RIXVER4S review = RIXVYUW4 revolution = REH5VULUXWSHUN rhapsody = RAE4PSAXDIYrhythm = RIH4DHUMrich = RIH4CHride = RAY4Dridiculous = RIXDIH4KYULAXS right = RAY4Trigid = RIH4JIXDring = RIH4NXrise = RAY4Zriver = RIH4VERroad = ROW4Drocket = RAA4KIXT roll = ROH4Lroom = RUW4Mrough = RAH4Fround = RAW4NDrubber= RAH4BER rule = RUW4Lrun = RAH4Nrush = RAH4SH- S sabotage = SAE5BAXTAA6ZHsacrifice = SAE4KRIXFAYS sad = SAE4Dsafe = SEY4Fsafety = SEY4FTIY

saint = SEY4NT
sale = SEY4L

S.A.M. = SAE4M

same = SEY4M

sample = SAE4MPUL

sanctuary = SAE4NXKCHUWEH6RIY

sandwich = SAE4NWIXCH
sarcasm = SAA4IRKAEZUM

satisfaction = SAE4TIXSFAE4KSHUN

savage = SAE4VIXJ

save = SEY4V

say = SEY4

scale = SKEY4L

scandal = SKAE4NDUL

scarce = SKEY4RS

scatter = SKAE4TER

scenic = SIY4NIXK

schedule = SKEH4JYUWL

scheme = SKIY4M

scholar = SKAA4LER

school = SKUW4L

science = SAY4IHNS

scientific = SAY4UNTIH5FIXK

scientific = SAY4AXNTIH5FIXK

scissors = SIH4ZERZ

score = SKOH4R

scramble = SKRAE4MBUL

scratch = SKRAE4CH

scream = SKRIY4M

screw = SKRUW4

script = SKRIH4PT

scroll = SKROW4L

seal = SIY4L

search = SER4CH

season = SIY4ZUN

second = SEH4KUND

secret = SIY4KRIXT

secretary = SEH4KRIXTEH5RIY

section = SEH4KSHUN

security = SIXKYUH4RIXTIY

see = SIY4

seek = SIY4K

segment = SEH4GMIXNT

self = SEH4LF

sell = SEH4L

semi- = SEH4MIY

send = SEH4ND

sensation = SEHNSEY4SHUN

senior = SIY4NYER

sense = SEH4NS

sensible = SEH4NSIXBUL

sensitive = SEH4NSIXTIX6V

sentence = SEH4NTIXNS

separate = SEH4PERIXT

sequence = SIY4KWEHNS

serial = SIH4RIYUL

serious = SIH4RIYAHS

serve = SER4V

service = SER4VIXS

session = SEH4SHUN

set = SEH4T

settle = SEH4TUL

several = SEH4VERUL

sex = SEH4KS

shadow = SHAE4DOW

shake = SHEY4K

shame = SHEY4M

shape = SHEY4P

share = SHEY4R

sharp = SHAA4RP

she = SHIY4

sheet = SHIY4T

shield = SHIY4LD

shift = SHIH4FT

shock = SHAA4K

shoot = SHUW4T

shop = SHAA4P

short = SHOH4RT

should = SHUH4D

show = SHOW4

shy = SHAY4

sick = SIH4K

side = SAY4D

sight = SAY4T

sign = SAY4N

signal = SIH4GNUL

silent = SAY4LIXNT

silver = SIH4LVER

similar = SIH4MULER

simple = SIH4MPUL

simplicity = SIHMPLIH4SIXTIY

simulator = SIH4MYULEYTER

sin = SIH4N

single = SIH4NXGUL

sinister = SIH4NIXSTER

sir = SER4

siren = SAY4RIXN

sit = SIH4T

situation = SIH5CHUWEY4SHUN

skeptical = SKEH4PTIXKUL

sketch = SKEH4TCH

skill = SKIH4L

skip = SKIH4P

slang = SLAE4NX

sleep = SLIY4P

sleeve = SLIY4V

slip = SLIH4P

slot = SLAA4T

slow = SLOW4

small = SMA04L

smart = SMAA4RT

smell = SMEH4L

smooth = SMUW4DH

snap = SNAE4P

so = SOW4

social = SOW4SHUL

society = SAXSAY4IXTIY

soft = SA04FT

solar = SOW4LER

soldier = SOH4LJER

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solemn = SAA4LUM
solid = SAA4LIXD
solitude = SAA4LIXTUW6D
solution = SULUW4SHUN
some = SAH4M
somebody = SAH4MBAADIY
song = SA04NX
soon = SUW4N
sophisticated = SAXFIH4STIXKEYTIXD
sorry = SAA4RIY
sort = SOH4RT
sound = SAW4ND
south = SAW4TH
space = SPEY4S
spare = SPEY4R
spatial = SPEY4SHUL
speak = SPIY4K
special = SPEH4SHUL
specific = SPAXSIH4FIXK
speculate = SPEH4KYULEYT
speech = SPIY4CH
speed = SPIY4D
spell = SPEH4L
spend = SPEH4ND
sphere = SFIY4R
spin = SPIH4N
spiral = SPAY4RUL
spirit = SPIH4RIXT
splendid = SPLEH4NDIXD
split = SPLIH4T
spoil = SPOY4L
spontaneous = SPAANTEY4NIYAHS
sports = SPOH4RTS
spot = SPAA4T
spread = SPREH4D
spring = SPRIH4NX
spy = SPAY4
square = SKWEH4R
squeeze = SKWIY4Z
stability = STAXBIH4LIXTIY
staff = STAE4F
stand = STAE4ND
standard = STAE4NDERD
star = STAA4R
start = STAA4RT
state = STEY4T
static = STAE4TIXK
station = STEY4SHUN
stay = STEY4
steady = STEH4DIY
steer = STIY4R
step = STEH4P
stereo = STEH4RIYOW
stick = STIH4K
stimualte = STIH4MYULEYT
stock = STAA4K
stone = STOW4N
stop = STAA4P
store = STOH4R
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story = STOH4RIYstraight = STREY4Tstrange = STREY4NJstrategy = STRAE4TIXJIYstreet = STRIY4T strength = STREY4NTHstrike = STRAY4Kstrong = STRAO4NXstructure = STRAH4KCHER stubborn = STAH4BERN student = STUW4DIXNT study = STAH4DIYstuff = STAH4Fstupid = STUX4PIXD style = STAY4Lsubject = SAH4BJEHKTsubstance = SAH4BSTIXNS subtle = SAH4TULsuccession = SAHKSEH4SHUN succeed = SAHKSIY4D such = SAH4CHsudden = SAH4DIXNsuggest = SAHGJEH4STsum = SAH4Msummer = SAH4MERsun = SAH4Nsuper = SUX4PERsuperb = SUXPER4Bsuperior = SUXPIH4RIYERsupply = SAXPLAY4support = SAXPOH4RTsure = SHUX4Rsurprise = SERPRAY4Z surroundings = SERAW4NDIHNXGZ suspend = SAHSPEH4NDswear = SWEH4Rsweep = SWIY4Pswell = SWEH4Lswing = SWIH4NXsyllable = SIH4LAXBULsymbol = SIH4MBULsymbolic = SIHMBAA4LIXK symmetric = SIHMEH4TRIXK sympathy = SIH4MPAXTHIYsynchronize = SIH4NXKRAX5NAYZ synonym = SIH4NUNIXM system = SIH4STUMsynthesizer = SIH4NTHAXSAYZER - T tab = TAE4Btable = TEY4BUL tactical = TAE4KTIXKUL

tab = TAE4B
table = TEY4BUL
tactical = TAE4KTIXKUL
tail = TEY4L
take = TEY4K
talent = TAE4LIX6NT
tall = TAO4L

talk = TA04K

tap = TAE4P

tape = TEY4P

target = TAA4RGIXT

task = TEY4ST

tax = TAE4KS

teach = TIY4CH

team = TIY4M

technical = TEH4KNIXKUL

technology = TEHKNAA4LAXJIY

telephone = TEH4LAX6FOWN

television = TEH4LAX6VIXZHUN

temper = TEH4MPER

tender = TEH4NDER

tense = TEH4NS

tension = TEH4NSHUN

term = TER4M

terminal = TER4MIXNUL

terrestrial = TER6EH4STRIY6UL

terrible = TEH4RAXBUL

territory = TEH4RAXTOH6RIY

terror = TEH4RER6

test = TEH4ST

testimony = TEH4STUMOHNIY

text = TEH4KST

than = DHAE4N

than = DHAE4N

thank = THAE4NXK

that = DHAE4T

the = DHAH4

theater = THIY4AHTER

then = DHEH4N

theorem = THIY4RUM

theory = THIY4RIY

thermometer = THERMAA4MIXTER

thesis = THIY4SIXS

they = DHEY4

thin = THIH4N

thing = THIH4NX

think = THIH4NXK

this = DHIH4S

thought = THAO4T

threshold = THREH4SH/HOWLD

through = THRUW4

ticket = TIH4KIXT

tight = TAY4T

time = TAY4M

tiny = TAY4NIY

tired = TAY4ERD

title = TAY4TUL

together = TUXGEH4DHER

tolerance = TAA4LERIXNS

tone = TOW4N

tool = TUW4L

top = TAA4P

toss = TA04S

touch = TAH4CH

tough = TAH4F

tournament = TER4NUMIXNT

toward = TOH4RDtoward = TOW4RDtown = TAW4Ntoy = T0Y4trace = TREY4Strack = TRAE4Ktrade = TREY4Dtradition = TRAXDIH4SHUN traffic = TRAE4FIXK trail = TREY4L trajectory = TRAXJEH4KTERY transaction = TRAENZAE4KSHUN transfer = TRAE4NSFERtransform = TRAENSFOH4RM transistor = TRAENZIH4STER translate = TRAE4NZLEYTtransmit = TRAE4NZMIXTtransparent = TRAE5NSPEH4RIXNT transportation = TRAE5NZPOHRTEY4SHUN trap = TRAE4Ptreasury = TREH4ZHERIYtree = TRIY4trek = TREH4Ktremendous = TRIXMEH4NDAXS trespass = TREH4SPAEStrial = TRAY4ULtrangle = TRAY4AENXGUL trick = TRIH4K trgger = TRIH4GERtrim = TRIH4Mtrip = TRIH4Ptriple = TRIH4PUL triumph = TRAY4AHMFtroll = TROW4L trophy = TROW4FIYtrouble = TRAH4BUL truck = TRAH4Ktrue = TRUW4truth = TRUW4THtrj = TRAY4tune = TUW4Ntunnel = TAH4NULturn = TER4Ntutor = TUW4TERtwist = TWIH4ST type = TAY4Ptypewriter = TAY4PRAYTER

- U -

ugly = AH4GLIY
ultimate = AH4LTAX6MIXT
uncle = AH4NKUL
under = AH4NDER
understand = AH5NDERSTAE4ND
uniform = YUW4NIXFOHRM
union = YUW4NYUN
unit = YUW4NIXT

universal = YUW5NIXVER4SUL
unless = AHNLEH4S
up = AH4P
upset = AHPSEH4T
urge = EH4RJ
use = YUW4S
utility = YUWTIH4LIXTIY

- V -

vacation = VEYKEY4SHUN vacuum = VAE4KYUWM vague = VEY4Gvalid = VAE4LIXDvalue = VAE4LYUW valve = VAE4LVvanadium = VUNEY4DIYUM vapor = VEY4PERvariation = VEH5RIYEY4SHUN various = VEH4RIYAHS vary = VEH4RIYveal = VIY4Lvector = VEH4KTER vegetable = VEH4JTAXBUL vehicle = VIY4IX6KUL ventilate = VEH4NTULEYT verb = VER4Bversatile = VER4SAXTUL verse = VER4S version = VER4ZHUN vertical = VER4TIXKUL very = VEH4RIYveto = VIY4TOW vibration = VAYBREY4SHUN vicinity = VAXSIH4NIXTIY victory = VIH4KTERIY video = VIH4DIYOW village = VIH4LIXJ vinyl = VAY4NUL violation = VAY4AXLEY5SHUN virtue = VER4CHUW visible = VIH4ZIXBUL visit = VIH4ZIXT vital = VAY4TUL vocabulary = VOHKAE4BYULEHRIY vocal = V0W4KUL voice = VOY4S volt = VOW4LTvolume = VAA4LYUWM voluntary = VAA4LUNTEH5RIY vote = VOW4Tvowel = VAW4ULvoyage = V0Y4IXJ video = VIH4DIYOW

wafer = WEY4FER

wage = WEY4J

wait = WEY4T

wake = WEY4K

walk = WAO4K

wall = WAO4L

war = WOH4R

warm = WOH4RM

warp = WOH4RP

warranty = WOH5RIXNTIY4

wash = WAA4SH

waste = WEY4ST

watch = WAA4CH

water = WAO4TER

watt = WAA4T

wave = WEY4V

way = WEY4

weak = WIY4K

wealth = WEH4LTH

wear = WEH4R

wedding = WEH4DIHNX

week = WIY4K

weight = WEY4

welcome = WEH4LKUM

well = WEH4L

were = WER4

what = WHAH4T

wheel = WHIY4L

when = WHEH4N

which = WHIH4CH

while = WHAY4L

whisper = WHIH4SPER

white = WHAY4T

who = /HUW4

whole = /HOW4L

wide = WAY4D

wild = WAY4LD

will = WIH4L

win = WIH4N

window = WIH4NDOW

wing = WIH4NX

winter = WIH4NTER

wise = WAY4Z

wish = WIH4SH

with = WIH4TH

wizard = WIH4ZERD

woman = WUH4MUN

women = WIH4MIXN

wonder = WAH4NDER

word = WER4D

Wordrace = WER2DREYS

work = WER4K

world = WUH4RLD

worry = WER4IY

would = WUH4D

wrap = RAE4P

write = RAY4T

wrong = RA04NX

Zerox = ZIH4RAAKS X-ray = EH4KSREY xylophone = ZAY4LAXFOWN

- Y -

yacht = YAA4T yard = YAA4RD yawn = YAO4N year = YIH4R yellow = YEH4LOW yes = YEH4S you = YUW4 your = YOH4R youth = YUX4TH

- Z -

zany = ZEY4NIY
zero = ZIY4ROW
zig-zag = ZIH3GZAEG
zip = ZIH4P
zodiac = ZOW4DIY6AEK
zone = ZOW4N

- DAYS OF THE WEEK -

Monday = MAH4NDEY Tuesday = TUW4ZDEY Wednesday = WEH4NZDEY Thursday = THER4ZDEY Friday = FRAY4DEY Saturday = SAE4TERDEY Sunday = SAH4NDEY

- MONTHS OF THE YEAR -

January = JAE4NYUXEHRIY
February = FEH4BRUXEH6RIY
March = MAA4RCH
April = EY4PRIXL
May= MEY4
June = JUW4N
July = JUHLAY4
August = AO4GAXST
September = SEHPTEH4MBER
October = AAKTOW4BER
November = NOHVEH4MBER
December = DIHSEH4MBER

- NUMBERS -

one = WAH4N

two = TUW4

three = THRIY4

four = FOH4R

five = FAY4V

six = SIH4KS

seven = SEH4VIXN

eight = EY4T

nine = NAY4N

ten = TEH4N

eleven = IXLEH4VIXN

twelve = TWEH4LV

thirteen = THER4TIY6N

twenty = TWEH4NTIY

thirty = THER4TIY

hundred = /HAH4NDRIXD

thousand = THAW4ZUND

million = MIH4LYUN

- STATES AND PROVINCES -

United States = YUWNAY4TIXD STEY4TS

Alabama = AE4LAXBAE6MAX

Alaska = AHLAE4SKAH

Arizona = EH4RAXZOW5NAH

Arkansas = AA4RKUNSAO

California = KAE5LAXF0H4RNYAH

Colorado = KAA5LAXRAA4DOW

Connecticut = KAHNEH4TIXKAHT

Delaware = DEH4LAXWEH6R

Florida = FLOH4RIXDAH

Georgia = JOH4RJAH

Hawaii = /HAHWAY4IY

Idaho = AY4DAH/HOW
Illinois = IHLUNOY4

Indiana = IH5NDIYAE4NAH

Iowa = AY4AHWAH

Kansas = KAE4NZIXS

Kentucky = KEHNTAH4KIY

Louisiana = LUXIY4ZIYAE5NAH

Maine = MEY4N

Maryland = MEH4RULIXND

Massachusetts = MAE5SAXCHUW4SIXTS

Michigan = MIH4SAXGUN

Minnesota = MIH5NAXSOW4TAH

Mississippi = MIH5SIXSIH4PIY

Missouri = MIHZUH4RIY

Montana = MAANTAE4NAH

Nebraska = NAXBRAE4SKAH

Nevada = NAXVAE4DAH

New Hampshire= NUW6/HAE4MPSHER

New Jersey = NUWJER4ZIY

New Mexico = NUWMEH4KSIXKOW

New York = NUWYOH4RK

North Carolina = NOH4RTH KEH5RULAY4NAH

North Dakota= NOH4RTH DAHKOW4TAH

Ohio = OW/HAY40W

Oklahoma = OWKLAX6/HOW4MAH

Oregon = OH4RIXGUN

Pennsylvania = PEH5NSULVEY4NYAH

Rhode Island = ROW5D AY4LUND

South Carolina = SAW4TH KEH5RULAY4NAH

South Dakota = SAW4TH DAXKOW4TAH

Tennessee = TEH5NAXSIY4

Texas = TEH4KSAXS

Utah = YUW4TA06

Vermont = VERMAA4NT

Virginia = VERJIH4NYAH

Washington = WAA4SHIHNXTAHN

West Virginia = WEH5ST VERJIH4NYAH

Wisconsin = WIHSKAA4NSUN

Wyoming = WAYOW4MIHNX

Provinces of Canada = PRAA4VIXNSIXZ AHV KAE4NAXDAH

Alberta = AELBER4TAH

British Columbia =

BRIH4TIXSH KAHLAH4MBIYAH

Manitoba = MAE5NIXTOW4BAH

New Brunswich = NUWBRAH4NZWIXK

Newfoundland = NUW4FIXNLIXND

Nova Scotia = NOH4VAX5KOW4SHAH

Ontario = AANTEH4RIYOW

Prince Edward Island =

PRIH5NS EH4DWERD AY4LUND

Quebec = KUHBEH4K

Saskatchewan = SAESKAE4CHAXWAAN

- UNITS -

units = YUW4NIXTS

inches = IH4NCHIXZ

feet = FIY4T

yards = YAA4RDZ

miles = MAY4LZ

centimeters = SEH4NTIXMIY6TERZ

kilometers = KIXLAA4MIXTERZ

acres = EY4KERZ

ounces = AW4NSIXZ

pounds = PAW4NDZ

tons = TAH4NZ

grams = GRAE4MZ

teaspoons = TIY4SPUWNZ

cups = KAH4PS

pints = PAY4NTS

quarts = KWOH4RTS

gallons = GAE4LUNZ

liters = LIY4TERZ

degrees = DAXGRIY4Z