

# SemanticV

FINDING MEANING

SemanticV's Stingray software discovers concepts in documents and associates them with phrases, documents, people, blogs, etcetera.

**PROBLEM:** Most, if not all, Semantic technologies rely on manually created, grammar-networks, dictionaries, thesauri, ontologies, etcetera. This approach can yield impressive results for generic or very common domains, but it can cause problems in **specialized domains**.

- Words can be used with less common or new meanings.
- New words may be created (i.e. product names) that would be unknown to a priori dictionaries.
- Correct grammar is often not guaranteed (email and text messages).

**SOLUTION:** Software driven by algorithms that can learn word meanings and grammatical categories as used in a given text corpus. This information can be used to find synonyms, calculating the similarity of a word, phrase, block of text, or document to another word, phrase, block or text or document. The algorithms provide a traversable network, which represents the relationship of words and phrases to concepts and concepts to documents or sections of documents.



Semantic concepts discovered to be associated with keywords for various corpora:

	Wikipedia	Enron	Movies	King James
apple	computer, computers, hardware ipod, podcast, download, downloads, exclusive amiga, holden, micro cream, flavor, flavors, sweet, coconut, milk	cake, cream, chips, dip, rolls, taste apple, cypress, ash, pleasant, tender, tree streaming, technologies, founder, exodus, activate, keynote birthday, eat, recipe, wedding, flowers	eating, eats, chocolate, eaten, bowl, eat candy, wally, rose hero, muddy, apples discreetly, wink, hurts, jagged, ferrie	fig, tree, fruit fadeth, mourneth, languish apple, elim, spoiled cherubims, palm, borders, walls, trees
tiger	leopard, lion, zoo, gorilla, elephants, wolf golfer, golfers, tour tank, tanks, armored gypsy, havilland, tiger	christie, wharton, discuss, agenda interns, summer, internship, celeste, campus emerson, motors, coke, crown, quebec piazzes, tiger, management	sword, swords, slashing, armor swinging, swings, leaps commodus, maximus, proximo, juba dog, dogs, dog's	nil
football	coach, coached, coaches, teams lauderdale, soccer, lyrical anaheim, oregon, mighty midfielder, striker, goalkeeper, plays, winger	roster, we'll, advice athletic, basketball, football, longhorn, baseball, club poll, polls, voters, vote, sporting bar, brought, sponsorship, contacting, because	student, students, college, class play, playing, plays autumn, yeh, winters harding, kurt, starks	nil
love	lover, lovers, loving, reunited, intimate, stranger gotta, wanna, gonna, shake, alright ballad, duet, rendition, lyric, ballads, dion boyfriend, girlfriend, friend, jealous, meanwhile	mind, sound, given, spirit, appearing, evidence gossett, kam, baumbach, keiser, errol, mclaughlin lubbock, odessa, amarillo, birmingham, springfield, nh o'neal, winfree, bryan, venturatos, phillip	daddy, mister, love, storefront how, what, why, didn't, did, really my, your, have me, you, know, don't, do, if	rooms, seats, synagogues, uppermost, rabbi pastors, unity, edifying, deceive discreet, husbands, obedient, chaste, aged clear, terrible, fulfil, comely, army
money	bankrupt, debts, invested, financially fund, funds, funding pay, paying, paid charitable, charities, fundraising, generous, donations, donation	hurt, lives, americans, dealings, repair paid, paying, payments, payment, owed, purchases event, facts, fast, usual, availability, exercise billions, debts, freeze, forced, bills, taxpayers	get, here, gonna, want, got, tell dollar, dollars, fifty, bucks my, your, have bills, cash, money	sack, sacks, provender, money jewels, lent, required, lands, favour carpenters, repair, breaches, masons, builders sanctuary, shekel, apiece, poll
god	humanity, mankind, spirit, our, eternal, existence heaven, heavenly, satan, souls, divine, eternity christ, jesus, resurrection, salvation, believers, god deities, deity, gods, goddess	mind, sound, given, spirit, appearing, evidence jesus, lord, titles, freedom, church, pray blessing, daily, blessed fw, fwd, prayer	me, you, know, don't, do, if my, your, have thank, yes, hello, mr, please, sorry hey, yeah, okay, thanks, oh	shalt, thou, thy, thee ye, your, you me, my, mine christ, jesus, grace, apostle

This output facilitates the exploration of document sets and forms a basis for document dissemination facilitating the Semantic Web.

Stingray is a dynamic semantic information tool. *Stingray can...*

- Learn meanings for words based on how they are used.
- Explore information using concepts.
- Discover themes in a body of text.