

Objectivity/Subjectivity Using TextBlob & spaCy

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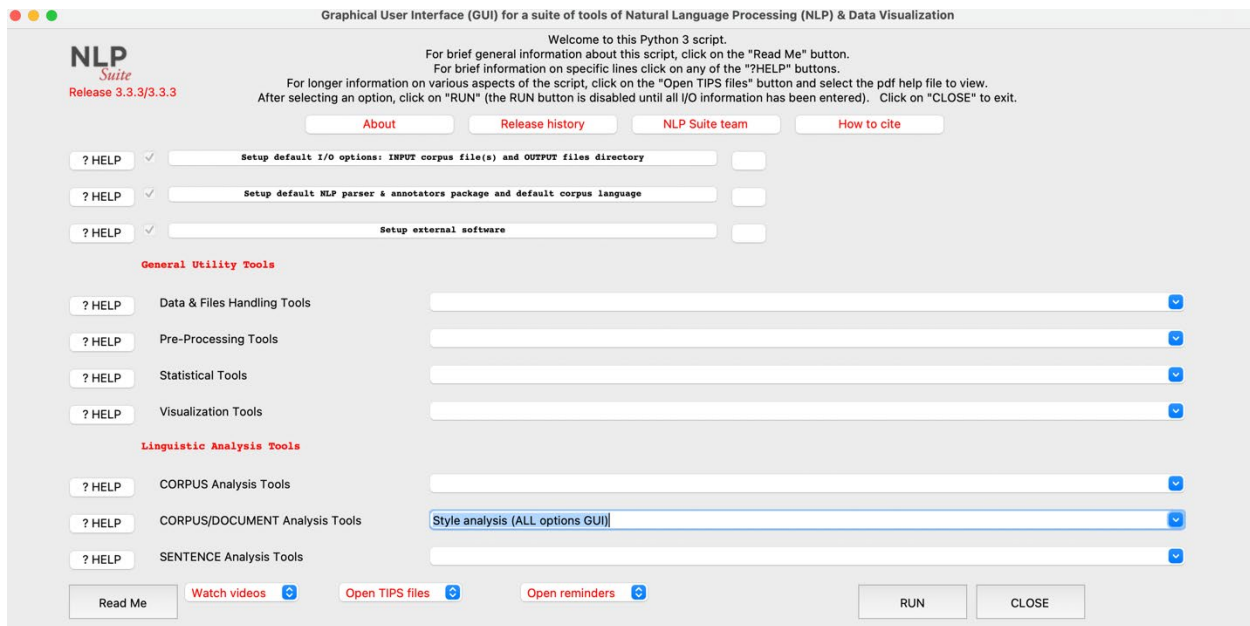
Objectivity/subjectivity via TextBlob & spaCy

spaCy makes use of the TextBlob package of Natural Language Processing tools in order to provide an objectivity/subjectivity score of a text. Objectivity/subjectivity is part of TextBlob's **sentiment analysis** tool that returns two types of scores: **polarity** and **subjectivity**. Polarity measures positive or negative sentiment; **subjectivity refers to personal opinions and judgments**.

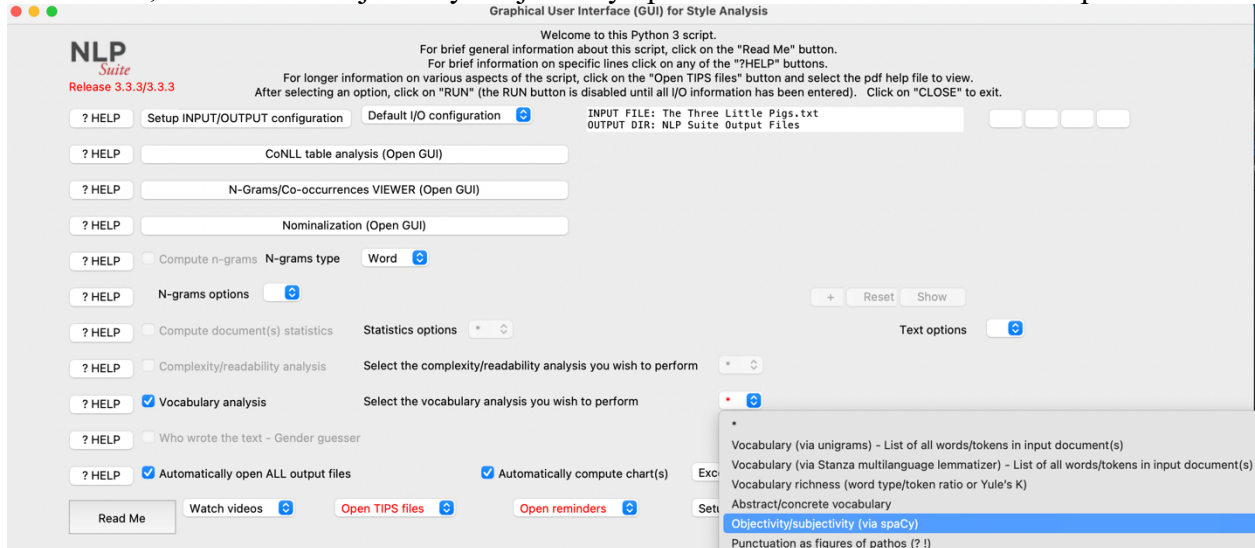
The subjectivity score is a float number lying in the range [0.0, 1.0], where 0.0 is very objective (or minimally subjective), and 1.0 is very subjective (or minimally objective). This sentiment analysis tool can be used directly from TextBlob. However, using it through a spaCy pipeline relies on spaCy's tokenization rather than NLTK. In addition, spaCy is faster than NLTK.

Objectivity/subjectivity in the NLP Suite

In the NLP Suite, the tool to calculate the subjectivity of sentences/documents can be found in the Style Analysis GUI within CORPUS/Document Analysis Tools.

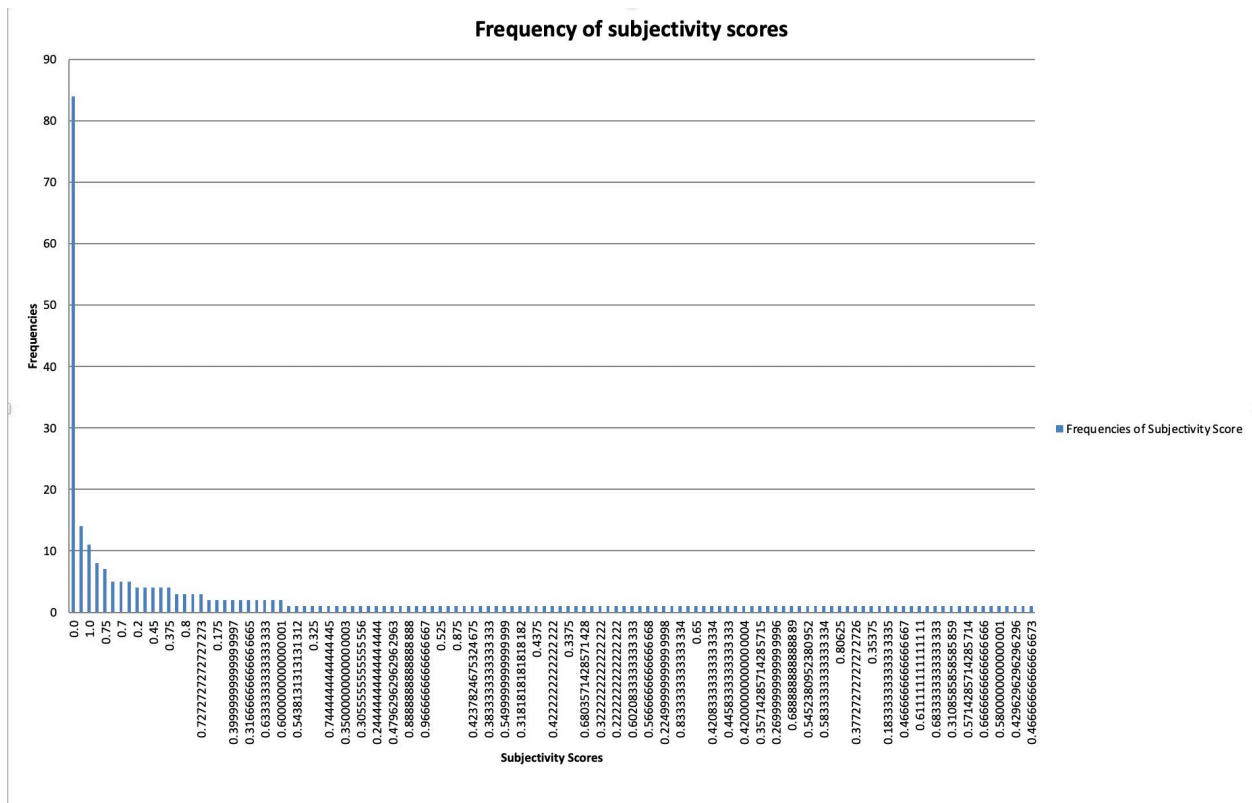


Running this will open up the GUI for Style Analysis. Here, the box for vocabulary analysis must be checked, and then the objectivity/subjectivity option can be selected from the dropdown menu.



Output

The output has charts showing frequency of subjectivity scores for the input, and a .csv file outlining the subjectivity scores per sentence for the input.



NLP_Objectivity_subjectivity per sentence_Dir_newspaperArticles				
Subjectivity Score	Sentence ID	Sentence	Document ID	Document
0.0	1	Picture a middle-class American family, four generations, living in the suburbs.		1
0.625	2	The "founder" is an upstart with a murky past, a hard-working construction guy in a bleak marriage.		1
0.1	3	Next in line are his son and the son's wife -- he's a chip off the old patriarch, inherits the construction business, soldiers on.		1
0.6	4	She's the maddening, meddling family fixer-upper, determined that her four children will, against all odds, tolerate if not love one another.		1
0.5438131313131310	5	And then there are the children, at midlife and with children of their own: a couple of daughters who annoy each other, an "acquired" son (the product of a "crazy arrangement") and of course the obligatory black sheep, Denny.		1
0.4645454545454550	6	So what else is new?		1
0.1	7	Give or take a few details, this appended/blended/fouled-up family could be any of ours.		1
0.75	8	That makes it cliché territory, risky for an ambitious novelist.		1
0.0	9	It's also quintessential Anne Tyler, as well as quintessential American comedy.		1
0.75	10	Tyler has a knack for turning sitcom situations into something far deeper and more moving.		1
0.4657407407407410	11	Her great gift is playing against the American dream, the dark side of which is the falsehood at its heart: that given hard work and good intentions, any family can attain the Norman Rockwell ideal of happiness -- ordinary, happy.		1
0.2	12	Happiness indeed eludes the Whitshank family of Baltimore.		1
0.325	13	That's where Junior, the founder, begins by constructing a house, a place that becomes the love of his life, as well as that of his son, Red, and eventually some of the other children and grandchildren.		1
0.558	14	The house is initially commissioned by a rich businessman, but Junior, who is hired to build it, sets his heart on the place the minute he sees the blueprints, crafts it to his own high standards and eventually acquires it by sordid means.		1
0.5	15	The house is no Sutpen's Hundred, no Manderley, "more, let's say, a family house.		1
0.7444444444444450	16	A house you might see pictured on a thousand-piece jigsaw puzzle, plain-faced and comfortable" with a "wonderful full-length porch."		1
0.0	17	It projects ordinariness, togetherness, timelessness.		1
0.0	18	And it has the power to draw the family back to it over the generations.		1
0.25	19	Togetherness and ordinariness are mixed blessings.		1
0.5	20	Junior's family is anything but ordinary.		1
0.2333333333333330	21	Early on, he's entrapped by a 13-year-old seductress (half his age) who bides her time and eventually gets her man.		1
0.0	22	(The Whitshanks are champion time-biders.)		1
0.2	23	Junior and his wife in turn give birth to Redcliffe (boy) and Merrick (girl), their highfalutin names bestowed by Junior, who, much as he may resent his snooty neighbors, apes their ways.		1
0.35	24	(Tyler has fun with Merrick, the kind of girl who steals her best friend's beau and sashays off into the upper echelons of Baltimore society, where people have names like Pookie and Pixie.)		1
0.0	25	While Merrick escapes, her brother, Red, takes on the family construction business and a wife named Abby.		1
0.8	26	Alas, poor Abby!		1
0.0	27	She's a staple of Tyler fiction: the self-densigrating/self-aggrandizing embarrassment of a mother you hope will never show up at your school function.		1
0.2333333333333330	28	It's Abby, Red and their children we get to know best as the family slowly disintegrates.		1
0.3055555555555550	29	They're first met as the novel opens and Denny calls home to tell Red and Abby he's gay.		1
0.0	30	(He's not.)		1
0.0	31	"What the hell," Red snorts, whereupon Denny hangs up and Abby wigs out.		1
0.5333333333333330	32	The ensuing scene hilariously captures small fractures, now grown into rifts, in an old, well-worn marriage.		1

References

TextBlob Documentation: <https://textblob.readthedocs.io/en/dev/quickstart.html>