Advances in technology have revolutionized the way linguists approach their data. Using computers, extremely large bodies of text (“corpora”) can be collected and analyzed at a level of detail that only a decade ago would have been unthinkable. Sources like the British National Corpus, the Corpus of Historical American English, and Google Books collection allow us access to language use across an unprecedented range of time and space. For anyone studying human communication or culture, the accelerating growth of the World Wide Web and other natural language resources have made techniques for dealing with very large texts more important than ever.

Through a combination of lectures, demonstrations, and hands-on exercises, this course will give students an introduction to the skills necessary for computer-aided text manipulation. Students will learn to search text databases using on-line tools, to write Python programs to manipulate large natural language corpora, to apply quantitative linguistic measures to existing texts, and to formulate, carry out, and describe their own corpus-based linguistic research projects.

This class has no pre-requisites.

1 Instructor

2 Instructor

Rob Malouf
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3 Requirements

The final grade will be based on homework assignments (30%), a midterm project (30%), and a final project (40%). Through the term, there will be several hands-on homework assignments in which students apply the techniques learned in class to actual corpus materials. Since it's important to not get behind on assignments, late assignments will be accepted for partial credit for one week only
after the due date unless prior arrangements are made. Working in groups is encouraged, but please include the names of all coworkers on the assignment.

The midterm will be a take-home programming assignment, for which students will be required to replicate a published corpus analysis using Python. The final project should be a program (with documentation) to perform some substantial corpus processing task chosen by the student. Alternatively, the final project can be the collection and annotation of a new corpus, or a research project that makes crucial use of novel corpus data. More details about both projects will be given later in the term.

4 General policies

- No form of academic dishonesty, including cheating or plagiarism, will be tolerated in the class. Following Executive Order 1006, all instances of academic dishonesty will be reported to the Center for Student Rights and Responsibilities for investigation. For more information about the judicial process, see http://csrr.sdsu.edu. For more information about what plagiarism is and how to avoid it, see http://its.sdsu.edu/tech/plagiarism.html.

- No one may record lectures or class discussions without prior permission. Students who make recordings without permission can be reported for misconduct.

- If you are a student with a disability and believe you will need accommodations for this class, it is your responsibility to contact Student Disability Services at (619) 594-6473. To avoid any delay in the receipt of your accommodations, you should contact Student Disability Services as soon as possible. Please note that accommodations are not retroactive, and that I cannot provide accommodations based upon disability until I have received an accommodation letter from Student Disability Services. Your cooperation is appreciated.

- The CSU has affirmed its commitment to “protecting access, affordability, intellectual freedom, inclusivity, and diversity for all students … including supporting DACA students.” Discrimination, harassment, or retaliation against students, faculty, and staff on the basis of race, religion, gender, sexuality, disability, nationality, immigration status and other categories of identity is prohibited. If you have concerns about your status at the university, please visit http://studentaffairs.sdsu.edu/EOP/ for information or contact the Dean of Students or the Assistant Dean for Student Affairs in your College.

5 Readings

There are five required textbooks for this course:


The first two books (Weisser and Brezina) are available from the campus bookstore (or the usual other places) and you should do your best to get them. The others are legally available free online and there's no reason to buy a printed copy.