

Demonstration of CHAT Extraction and RQA

Let's import the new text file that the iPython Notebook produced and use the crqa library to build a recurrence plot of words.

```
setwd('~/.Dropbox/example-cha-extract')
library(crqa)
```

```
## Warning: package 'crqa' was built under R version 3.1.3

## Loading required package: Matrix
## Loading required package: tseriesChaos
## Loading required package: deSolve
## Loading required package: fields
## Loading required package: spam
## Loading required package: grid
## Spam version 1.0-1 (2014-09-09) is loaded.
## Type 'help( Spam)' or 'demo( spam)' for a short introduction
## and overview of this package.
## Help for individual functions is also obtained by adding the
## suffix '.spam' to the function name, e.g. 'help( chol.spam)'.
##
## Attaching package: 'spam'
##
## The following objects are masked from 'package:base':
##
##      backsolve, forwardsolve
##
## Loading required package: maps
## Loading required package: plot3D
## Loading required package: pracma
##
## Attaching package: 'pracma'
##
## The following object is masked from 'package:deSolve':
##
##      rk4
##
## The following objects are masked from 'package:Matrix':
##
##      expm, lu, tril, triu
```

```
data = read.table('extractedWords.txt')
colnames(data) = c('speaker', 'word', 'id')
```

Now that we have our data in, let's choose the two speakers we want to plot on a CRP, then extract their respective time series of word identifiers.

