

## Results

This chapter presents the results of the thesis work. Note that two forums, i.e., *HealingWell* and *ProstataKrebs*, are analyzed and thus results are presented for both of them. More precisely, some basic statistics on the number of posts, threads, users and their relationships are shown firstly. Then in order to get more insights on the text features, a boxplot of features for negative and positive sentiment class is drawn. After an introduction to *sentiment change* is made, a plot of sentiment changes on those 20 topics is presented. Finally, some statistics on the sentiments of keyword-based texts are shown.

### Results on the English Forum

#### Forum Statistics

Table [table:english\_forum\_statistics] shows some basic statistics on the general information of the forum.

[table:english\_forum\_statistics]

To better understand forum users' behaviors, the rest of this section will present the relationships between posts, threads, and users. As shown in Figure [fig:user\_posts], the probability of that a user contributes  $N$  posts to the forum follows a **power law** distribution. That is to say, the percentage of users exponentially decreases with the number of posts they have.

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[fig:user\_posts]

Figure [fig:number\_replies] shows that the distribution of number of replies in threads also roughly follows power law, especially when  $N > 6$ . This indicates that most of threads have less than 6 replies.

[ width=0.951, height=, at=(0,0), scale only axis, axis background/.style=fill=white,  
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tick style=font=, tick label style=font=, yshift=0.5ex, tick label style=font=,  
xshift=0.5ex, tick style=very thin,gray, major tick length=0.08cm, xla-

bel=Number of replies  $N$ , ylabel=Prob. that a thread has  $N$  replies, xmin=1,  
 xmax=1000, ymin=0.00001, ymax=1, xmode=log, ymode=log, xmajorgrids, x  
 grid style=white, ymajorgrids, y grid style=white, ] table 0 0.0363736947652306  
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 0.0659359657008506 5 0.0637576931055944 6 0.0638268446165549 7  
 0.0581218449623124 8 0.0524859968190305 9 0.0475416637853537 10  
 0.0421478459304336 11 0.0412834520434271 12 0.0357859069220662 13  
 0.031049028421271 14 0.0279372104280479 15 0.0240993015697393 16  
 0.0217827259525621 17 0.019085817025102 18 0.0159048475209183 19  
 0.0141760597469055 20 0.0139686052140239 21 0.0117903326187677 22  
 0.0111679690201231 23 0.0090588479358274 24 0.00847106009266302 25  
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 0.00325012101514418 35 0.00283521194938109 36 0.00300809072678238 37  
 0.00235115137265749 38 0.00262775741649955 39 0.00162506050757209 40  
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3.45757554802572e-05 ;

[fig:number<sub>r</sub>eplies]

In Figure [fig:thread<sub>t</sub>ime<sub>s</sub>pan], the distribution of life span of threads are shown. The distribution can be thought as two parts, both of which follow power law but with different base. The first part is in the range of  $0 \leq T \leq 20$ , and the second part starts from  $T = 30$ . Obviously, the second part decreases even faster. Note there is a special point around  $T = 23$ , which makes the distribution not monotone.

[ width=0.951, height=, at=(0,0), scale only axis, axis background/.style=fill=white,  
title style=font=, xlabel style=font=, ylabel style=font=, legend style=font=,  
tick style=font=, tick label style=font=, yshift=0.5ex, tick label style=font=,  
xshift=0.5ex, tick style=very thin,gray, major tick length=0.08cm, xla-  
bel=Life span  $T$  of a thread (in hours), ylabel=Prob. that a thread has  
life span of  $T$  hours, xmin=1, xmax=100000, ymin=1e-05, ymax=0.1,  
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y grid style=white, ] table 0 0.0710763888888889 1 0.0263194444444444  
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[fig:thread\_time\_pan]

Figure [fig:post\_wordcount] summarizes the distribution of number of words in both threads and replies. It can be seen that when  $N > 60$  the probabilities for initial posts are higher than those of replies. This indicates that the user who starts a thread tends to write more words than users who reply. This observation is expected since the thread originator usually cares more about the topic that he or she wants to discuss and thus try to elaborate on the issues.

[ width=0.951, height=, at=(0,0), scale only axis, axis background/.style=fill=white, title style=font=, xlabel style=font=, ylabel style=font=, legend style=font=, tick style=font=, tick label style=font=, yshift=0.5ex, tick label style=font=, xshift=0.5ex, tick style=very thin,gray, major tick length=0.08cm, xlabel=Number of words  $N$ , ylabel=Prob. that a thread/post has  $N$  words, xmin=1, xmax=10000, ymin=0.000001, ymax=1, xmode=log, ymode=log, xmajorgrids, x grid style=white, ymajorgrids, y grid style=white, legend entries=Threads,Reply Posts, legend cell align=left ] table 0 0.0003125 1 0.000347222222222222 2 0.000381944444444444 3 0.000625 4 0.000902777777777778 5 0.000972222222222222 6 0.001458333333333333 7 0.001631944444444444 8 0.001423611111111111 9 0.002118055555555556 10 0.002326388888888889 11 0.002673611111111111 12 0.002430555555555556 13 0.0040625 14 0.004027777777777778 15 0.003611111111111111 16 0.003680555555555556 17 0.003611111111111111 18 0.0040625 19 0.004097222222222222 20 0.003888888888888889 21 0.003506944444444444 22 0.0040625 23 0.004826388888888889 24 0.004409722222222222 25 0.0040625 26 0.004618055555555556 27 0.004131944444444444 28 0.004583333333333333 29 0.004305555555555556 30 0.004895833333333333 31 0.004930555555555556 32 0.004722222222222222 33 0.004965277777777778 34 0.005208333333333333 35 0.004340277777777778 36 0.004722222222222222 37 0.004409722222222222 38 0.005173611111111111 39 0.004861111111111111 40 0.004548611111111111 41 0.005277777777777778 42 0.004930555555555556 43 0.005 44 0.005729166666666667 45 0.004375 46 0.004652777777777778 47 0.004722222222222222 48 0.004618055555555556 49 0.004548611111111111 50 0.005347222222222222 51 0.005173611111111111 52 0.004305555555555556 53 0.005520833333333333 54 0.005694444444444444 55 0.005104166666666667 56 0.004826388888888889 57 0.005625 58 0.005104166666666667 59 0.004861111111111111 60 0.004861111111111111 61 0.005243055555555556 62 0.004340277777777778 63 0.005 64 0.004861111111111111 65 0.004826388888888889 66 0.004791666666666667 67 0.009201388888888889 68 0.004652777777777778 69 0.004548611111111111 70 0.004444444444444444 71 0.004895833333333333 72 0.004965277777777778 73 0.004965277777777778 74 0.0046875 75 0.004270833333333333 76 0.004236111111111111 77 0.004513888888888889 78 0.004895833333333333 79 0.003784722222222222 80 0.004479166666666667 81 0.004409722222222222 82 0.005277777777777778 83 0.003819444444444444 84 0.003715277777777778 85 0.004861111111111111 86 0.004930555555555556 87 0.005138888888888889 88 0.004583333333333333 89 0.004444444444444444 90 0.004131944444444444 91 0.003888888888888889 92 0.003958333333333333 93 0.003784722222222222 94 0.004618055555555556 95 0.004444444444444444 96 0.003611111111111111 97 0.003993055555555556 98 0.003958333333333333 99 0.0040625 100

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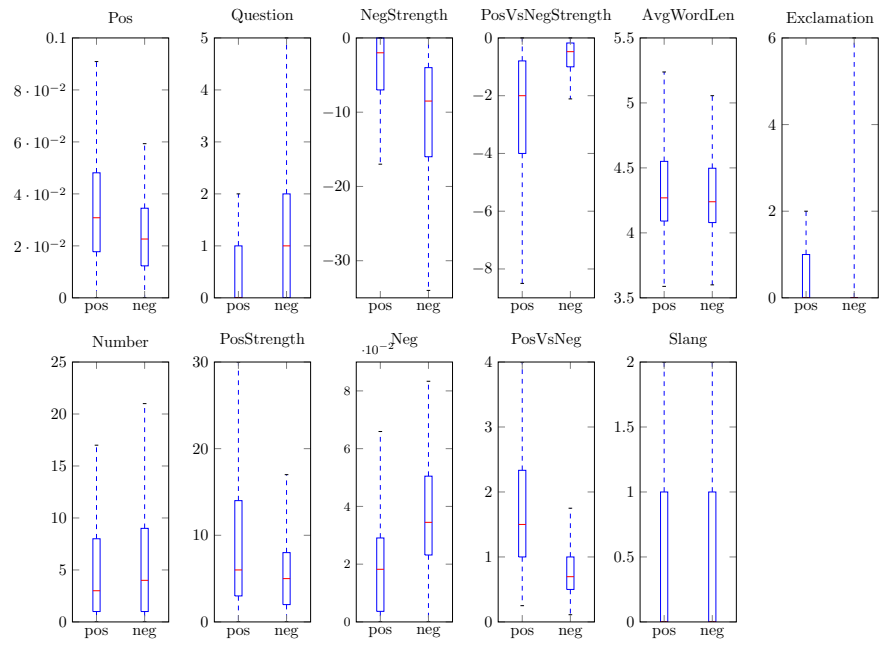
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## Feature Analysis

To inspect how well each of the text features could distinguish *negative* and *positive* class, boxplots are drawn in Figure [fig:boxplot<sub>h</sub>ealingwell]. A boxplot is able to represent the distribution of data based on five number summaries. From bottom to top, boxplot shows minimum, first quartile, median, third quartile and maximum.

[fig:boxplot<sub>h</sub>ealingwell]

It can be seen that for features *Neg*, *PosVsNeg*, and *PosVsNegStrength*, the distribution of data distinguishes quite well between two sentiment classes. Take feature *Neg* as an example, the boxplot tells us that in general posts with *negative* sentiment have more negative words than those with *positive* sentiment. On the contrary, some features (e.g., *Slang*) have very similar distributions on the data. That is to say, they are not good indicators of sentiment, and potentially add noise to the training data. Therefore, it is likely that the machine learning models use those features with high discriminability. This observation is compatible with the best machine learning model selected in Chapter [section:training<sub>m</sub>odels].



**Figure 1:** *Boxplots of texts features for negative and positive sentiment class.*



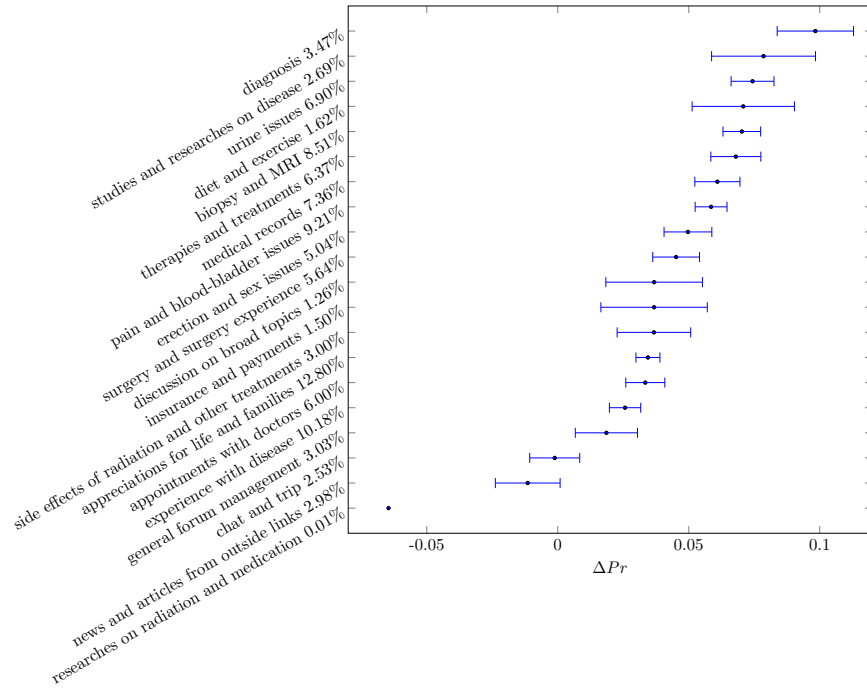
## Sentiment Dynamics

One of the goals of this thesis is to examine how the interactions between users change their emotional state. For that, a quantity called *Sentiment Change Index* is defined as:

$$\Delta Pr = \sum_{i=1}^{n_0} Pr(P_{0i})/n_0 - Pr(P_0),$$

where  $P_0$  is the thread post (i.e., the initial post),  $P_{0i}$  is self-reply from the user who starts the thread,  $n_0$  is the number of self-replies, and  $Pr(\cdot)$  is the output of the best SVM model selected in Chapter [section:training\_models], indicating the possibility that a post being classified as *positive* sentiment.

Apparently, the sentiment change index  $\Delta Pr$  can only be calculated for threads that have self-replies. After filtering out those threads without self-replies, 18,739 out of 28,800 threads are left.



**Figure 2:** *Sentiment changes on different topics in HealingWell forum.*

[fig:senti\_change\_topic]