

1 Displaying code in L^AT_EX

By using the following LaTeX code, you can directly source code from a file containing the code, i.e. from a Perl script.

```
1 \lstinputlisting [language=Perl]{random_word.pl}
```

Listing 1: Showing code from a file

```
1 #!/usr/bin/env perl
2
3 use strict;
4 use warnings;
5
6 my $usage = "Usage: $0 <number_of_word/s>\n";
7 my $number = shift or die $usage;
8
9 # this script only works when british-english exists
10 my $dict = '/usr/share/dict/british-english';
11 open(IN, '<', $dict) || die "Could not open $dict: $!\n";
12 my @dict = <IN>;
13
14 my $p = '';
15 for (my $i=0; $i < $number; ++$i){
16     my $rindex = int(rand(scalar(@dict)));
17     my $word = $dict[$rindex];
18     $word =~ s/\n$//;
19     $word = lc($word);
20     $p .= "$word ";
21 }
22
23 $p =~ s/\s$//;
24 my $f = substr($p, 0, 1);
25 my $uf = uc($f);
26 $p =~ s/^$f/$uf/;
27 print "$p\n";
28
29 exit(0);
```

random_word.pl

Code can be directly entered into the LaTeX document as well.

```
1 # install the randomForest package
2 install.packages("randomForest")
3
4 # load the randomForest library
5 library(randomForest)
```

Listing 2: Installing the R randomForest package

When breaklines=false, code will not be wrapped.

```
1#!/usr/bin/env perl
2
3use strict;
4use warnings;
5
6print "This is a really really really really really really really really re
7
8exit(0);
```

Listing 3: Code without wrapping

If `breaklines=true`, then the code will be wrapped.

```
1#!/usr/bin/env perl
2
3use strict;
4use warnings;
5
6print "This is a really really really really really really
   really really really really really really pointless
   sentence!\n";
7
8exit(0);
```

Listing 4: Code with wrapping