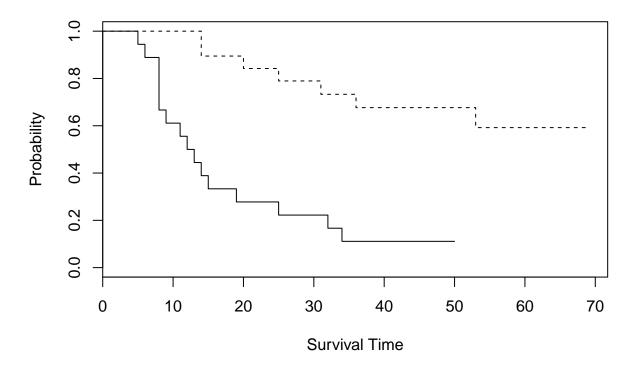
# Untitled

```
#install.packages("survival")
#install.packages("coin")
library(coin)
## Warning: package 'coin' was built under R version 3.4.3
## Loading required package: survival
## Warning: package 'survival' was built under R version 3.4.3
data(glioma)
summary(glioma)
##
        no.
                                                 histology
                         age
                                        sex
                                                                group
##
   Min. : 1.000
                    Min. :19.00
                                    Female:16
                                                GBM
                                                      :20
                                                            Control:18
  1st Qu.: 5.000
                    1st Qu.:40.00
##
                                    Male :21
                                                Grade3:17
                                                            RIT
                                                                   :19
## Median :10.000
                    Median :47.00
## Mean : 9.757
                    Mean
                          :48.49
## 3rd Qu.:14.000
                    3rd Qu.:57.00
## Max. :19.000
                    Max.
                           :83.00
                        time
##
     event
## Mode :logical
                          : 5.00
                   Min.
                   1st Qu.:13.00
## FALSE:14
## TRUE :23
                   Median :28.00
##
                   Mean
                          :30.84
##
                   3rd Qu.:50.00
##
                   Max.
                          :69.00
str(glioma)
## 'data.frame':
                   37 obs. of 7 variables:
##
   $ no.
            : int 12345678910...
              : int 41 45 48 54 40 31 53 49 36 52 ...
## $ age
              : Factor w/ 2 levels "Female", "Male": 1 1 2 2 1 2 2 2 2 2 ...
   $ histology: Factor w/ 2 levels "GBM", "Grade3": 2 2 2 2 2 2 2 2 2 2 ...
## $ group : Factor w/ 2 levels "Control", "RIT": 2 2 2 2 2 2 2 2 2 2 ...
##
   $ event
              : logi TRUE FALSE FALSE FALSE TRUE ...
              : int 53 28 69 58 54 25 51 61 57 57 ...
   $ time
survo<-Surv(time=glioma$time,event=glioma$event)</pre>
summary(survo)
##
        time
                       status
## Min. : 5.00
                          :0.0000
                   Min.
                   1st Qu.:0.0000
## 1st Qu.:13.00
## Median :28.00
                   Median :1.0000
## Mean
         :30.84
                   Mean
                         :0.6216
                   3rd Qu.:1.0000
## 3rd Qu.:50.00
          :69.00
                   Max.
                          :1.0000
survf<-survfit(formula=survo~glioma$group,data=glioma)</pre>
summary(survf)
## Call: survfit(formula = survo ~ glioma$group, data = glioma)
```

```
##
##
                   glioma$group=Control
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
             18
                      1
                           0.944 0.0540
                                                0.8443
                                                               1.000
                           0.889 0.0741
             17
                                                0.7549
                                                               1.000
##
       6
                       1
##
       8
             16
                      4
                           0.667 0.1111
                                                0.4809
                                                               0.924
                           0.611 0.1149
                                                0.4227
                                                               0.883
##
       9
             12
                      1
##
                           0.556 0.1171
                                                0.3675
                                                               0.840
             11
      11
                      1
                           0.500 0.1179
##
      12
             10
                      1
                                                0.3150
                                                               0.794
                           0.444 0.1171
##
      13
             9
                                                0.2652
                                                               0.745
                      1
                            0.389 0.1149
##
      14
              8
                      1
                                                0.2179
                                                               0.694
                                                0.1734
##
      15
              7
                           0.333 0.1111
                                                               0.641
                       1
                           0.278 0.1056
##
      19
              6
                      1
                                                0.1319
                                                               0.585
##
      25
                           0.222 0.0980
                                                0.0936
              5
                                                               0.527
                      1
##
      32
              4
                      1
                           0.167 0.0878
                                                0.0593
                                                               0.468
##
      34
              3
                           0.111 0.0741
                                                0.0301
                                                               0.410
                       1
##
                   glioma$group=RIT
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
                           0.895 0.0704
                                                 0.767
             19
                      2
                                                               1.000
##
                           0.842 0.0837
                                                 0.693
                                                               1.000
##
      20
             17
                      1
##
      25
             16
                      1
                           0.789 0.0935
                                                 0.626
                                                               0.996
##
      31
             14
                           0.733 0.1024
                                                 0.557
                                                               0.964
                      1
##
      36
             13
                           0.677 0.1090
                                                 0.494
                      1
                                                               0.928
##
      53
              8
                           0.592 0.1239
                                                 0.393
                                                               0.892
                       1
```

plot(survf, lty=1:2, main="Glioma", ylab="Probability", xlab="Survival Time")

## Glioma



```
surv_sex<-survfit(formula=survo~glioma$sex,data=glioma)
summary(surv_sex)</pre>
```

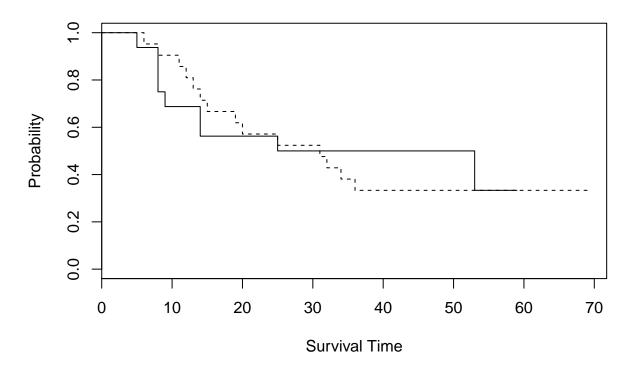
```
##
##
                    glioma$sex=Female
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
##
       5
              16
                             0.938 0.0605
                                                    0.826
                                                                  1.000
                        1
##
       8
              15
                        3
                             0.750
                                    0.1083
                                                    0.565
                                                                  0.995
##
       9
                             0.688
                                    0.1159
                                                    0.494
                                                                  0.957
              12
                        1
                        2
##
      14
              11
                             0.562
                                    0.1240
                                                    0.365
                                                                  0.867
      25
##
               9
                        1
                             0.500
                                    0.1250
                                                    0.306
                                                                  0.816
##
      53
               3
                        1
                             0.333
                                                    0.130
                                                                  0.852
                                    0.1596
##
                    glioma$sex=Male
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
              21
                                                    0.866
                                                                  1.000
##
       6
                             0.952
                                    0.0465
##
       8
              20
                        1
                             0.905
                                    0.0641
                                                    0.788
                                                                  1.000
##
      11
              19
                        1
                             0.857
                                    0.0764
                                                    0.720
                                                                  1.000
                                                                  0.996
##
      12
              18
                        1
                             0.810
                                    0.0857
                                                    0.658
##
      13
              17
                        1
                             0.762
                                    0.0929
                                                    0.600
                                                                  0.968
##
              16
                             0.714
                                    0.0986
                                                    0.545
                                                                  0.936
      14
                        1
##
      15
              15
                        1
                             0.667
                                    0.1029
                                                    0.493
                                                                  0.902
##
      19
              14
                                                                  0.866
                        1
                             0.619
                                    0.1060
                                                    0.443
##
      20
              13
                             0.571
                                    0.1080
                                                    0.395
                                                                  0.828
                        1
                             0.524
##
      25
              12
                        1
                                    0.1090
                                                    0.348
                                                                  0.788
```

Call: survfit(formula = survo ~ glioma\$sex, data = glioma)

```
31
                            0.476 0.1090
                                                   0.304
                                                                 0.746
##
                       1
              10
                                                                 0.702
##
      32
                       1
                            0.429 0.1080
                                                   0.262
      34
              9
                            0.381 0.1060
                                                   0.221
                                                                 0.657
##
                       1
##
      36
              8
                            0.333 0.1029
                                                   0.182
                                                                 0.610
                       1
```

plot(surv\_sex,lty=1:2,main="Glioma",ylab="Probability",xlab="Survival Time")

#### Glioma

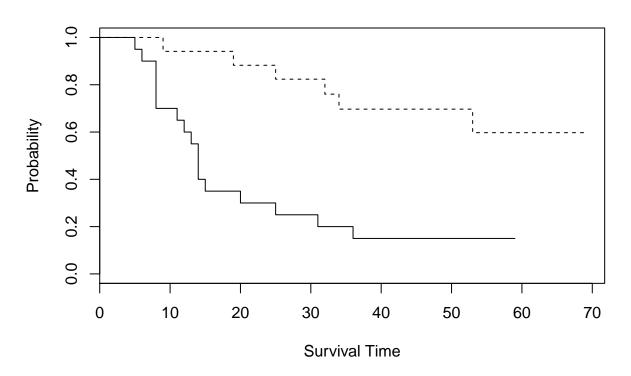


surv\_hist<-survfit(survo~glioma\$histology,data=glioma)
summary(surv\_hist)</pre>

```
## Call: survfit(formula = survo ~ glioma$histology, data = glioma)
##
                    glioma$histology=GBM
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
##
       5
             20
                       1
                              0.95 0.0487
                                                  0.8591
                                                                 1.000
##
       6
             19
                       1
                              0.90 0.0671
                                                  0.7777
                                                                 1.000
##
       8
                       4
                              0.70 0.1025
                                                  0.5254
                                                                 0.933
             18
             14
                       1
                                   0.1067
                                                  0.4712
                                                                 0.897
##
      11
                              0.65
##
      12
             13
                       1
                              0.60
                                   0.1095
                                                  0.4195
                                                                 0.858
##
      13
             12
                       1
                              0.55
                                   0.1112
                                                  0.3700
                                                                 0.818
##
      14
              11
                       3
                              0.40 0.1095
                                                  0.2339
                                                                 0.684
##
      15
              8
                       1
                              0.35
                                   0.1067
                                                  0.1926
                                                                 0.636
##
      20
              7
                       1
                              0.30 0.1025
                                                  0.1536
                                                                 0.586
##
      25
              6
                       1
                              0.25
                                   0.0968
                                                  0.1170
                                                                 0.534
##
              5
                              0.20
                                   0.0894
                                                  0.0832
      31
                       1
                                                                 0.481
##
      36
              4
                              0.15
                                   0.0798
                                                  0.0528
                                                                 0.426
##
```

```
glioma$histology=Grade3
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
                            0.941 0.0571
                                                  0.836
                                                               1.000
##
             17
                            0.882 0.0781
##
      19
             16
                       1
                                                  0.742
                                                               1.000
                            0.824 0.0925
##
      25
             15
                                                  0.661
                                                               1.000
##
      32
             13
                       1
                            0.760 0.1048
                                                  0.580
                                                               0.996
##
      34
             12
                            0.697 0.1136
                                                  0.506
                                                               0.959
              7
                            0.597 0.1341
##
      53
                                                  0.385
                                                               0.927
                       1
plot(surv_hist,lty=1:2,main="Glioma",ylab="Probability",xlab="Survival Time")
```

## Glioma



```
library(TH.data)

## Warning: package 'TH.data' was built under R version 3.4.3

## Loading required package: MASS

##
## Attaching package: 'TH.data'

## The following object is masked from 'package:MASS':

##
## geyser
data(GBSG2)
summary(GBSG2)

## horTh age menostat tsize tgrade
```

Min.

: 3.00

I : 81

no :440

:21.00

Min.

Pre :290

```
ves:246
              1st Qu.:46.00
                               Post:396
                                           1st Qu.: 20.00
                                                             II:444
##
##
              Median :53.00
                                           Median : 25.00
                                                             III:161
##
              Mean
                      :53.05
                                           Mean : 29.33
##
              3rd Qu.:61.00
                                           3rd Qu.: 35.00
              Max.
##
                      :80.00
                                           Max.
                                                  :120.00
##
                                           estrec
                        progrec
        pnodes
                                                               time
    Min. : 1.00
                     Min. :
                                0.0
                                      Min. : 0.00
                                                          Min.
                                                                 :
                                                                     8.0
    1st Qu.: 1.00
                                       1st Qu.:
                                                          1st Qu.: 567.8
##
                     1st Qu.:
                                7.0
                                                  8.00
                                       Median : 36.00
##
    Median: 3.00
                     Median: 32.5
                                                          Median: 1084.0
##
    Mean : 5.01
                     Mean : 110.0
                                       Mean
                                             : 96.25
                                                          Mean
                                                                 :1124.5
    3rd Qu.: 7.00
                     3rd Qu.: 131.8
                                       3rd Qu.: 114.00
                                                          3rd Qu.:1684.8
##
    Max. :51.00
                     Max.
                           :2380.0
                                       Max.
                                            :1144.00
                                                                 :2659.0
                                                          Max.
##
         cens
##
   Min.
           :0.0000
##
    1st Qu.:0.0000
##
    Median :0.0000
##
   Mean
           :0.4359
##
    3rd Qu.:1.0000
##
    Max.
           :1.0000
thf<-Surv(time=GBSG2$time,event=GBSG2$cens)</pre>
thf<-Surv(time=GBSG2$time,event=GBSG2$cens)
thf_fit<-survfit(thf~GBSG2$horTh,data=GBSG2)</pre>
summary(thf_fit)
## Call: survfit(formula = thf ~ GBSG2$horTh, data = GBSG2)
##
##
                    GBSG2$horTh=no
##
    time n.risk n.event survival std.err lower 95% CI upper 95% CI
##
      72
                            0.998 0.00232
                                                 0.9931
                                                                1.000
                       1
##
      98
            429
                            0.995 0.00328
                                                 0.9889
                                                                1.000
                       1
##
     113
            428
                       1
                            0.993 0.00401
                                                 0.9852
                                                                1.000
##
     120
            427
                       1
                            0.991 0.00463
                                                 0.9817
                                                                1.000
##
            425
                            0.988 0.00517
     160
                       1
                                                 0.9783
                                                                0.999
            424
##
     171
                            0.986 0.00566
                                                 0.9750
                                                                0.997
                       1
            423
##
     173
                       1
                            0.984 0.00611
                                                 0.9718
                                                                0.996
##
     175
            422
                       1
                            0.981 0.00652
                                                 0.9687
                                                                0.994
##
     181
            420
                       1
                            0.979 0.00691
                                                 0.9656
                                                                0.993
##
                            0.977 0.00728
     191
            419
                       1
                                                 0.9625
                                                                0.991
##
     195
            418
                       1
                            0.974 0.00763
                                                 0.9595
                                                                0.989
##
            416
     205
                       1
                            0.972 0.00796
                                                 0.9565
                                                                0.988
##
     223
            415
                            0.970 0.00828
                                                 0.9536
                                                                0.986
                       1
##
     233
            414
                       1
                            0.967 0.00859
                                                 0.9507
                                                                0.984
##
     241
            413
                       1
                            0.965 0.00888
                                                 0.9477
                                                                0.983
##
     242
            412
                       1
                            0.963 0.00916
                                                 0.9449
                                                                0.981
##
                            0.960 0.00943
     247
            411
                                                 0.9420
                                                                0.979
                       1
##
     249
            410
                       1
                            0.958 0.00970
                                                 0.9391
                                                                0.977
##
            409
     251
                       1
                            0.956 0.00995
                                                 0.9363
                                                                0.975
##
     272
            408
                            0.953 0.01020
                                                 0.9335
                                                                0.973
                       1
            405
##
     281
                       2
                            0.949 0.01068
                                                 0.9279
                                                                0.970
##
     285
            403
                       2
                            0.944 0.01113
                                                 0.9223
                                                                0.966
##
     288
            401
                       1
                            0.942 0.01135
                                                 0.9195
                                                                0.964
##
     293
            400
                       1
                            0.939 0.01156
                                                 0.9168
                                                                0.962
##
     305
            399
                       1
                            0.937 0.01177
                                                 0.9140
                                                                0.960
```

##	307	398	1	0.934 0.01198	0.9113	0.958
##	308	397	1	0.932 0.01217	0.9085	0.956
##	316	395	1	0.930 0.01237	0.9058	0.954
##	329	393	1	0.927 0.01256	0.9031	0.952
##	336	392	1	0.925 0.01275	0.9004	0.950
##	338	391	3	0.918 0.01330	0.8922	0.944
##	343	388	1	0.916 0.01347	0.8895	0.942
##	344	387	1	0.913 0.01364	0.8868	0.940
##	348	386	1	0.911 0.01381	0.8841	0.938
##	350	385	1	0.908 0.01398	0.8815	0.936
##	353	384	1	0.906 0.01414	0.8788	0.934
##	358	383	1	0.904 0.01430	0.8761	0.932
##	359	382	2	0.899 0.01461	0.8708	0.928
##	360	380	1	0.897 0.01476	0.8682	0.926
##	370	379	2	0.892 0.01506	0.8629	0.922
##	371	377	1	0.890 0.01520	0.8602	0.920
##	372	376	1	0.887 0.01534	0.8576	0.918
##	375	375	1	0.885 0.01548	0.8550	0.916
##	379	374	1	0.882 0.01562	0.8523	0.914
				0.880 0.01576		
##	385	373	1		0.8497	0.911
##	403	372	1	0.878 0.01589	0.8471	0.909
##	415	371	1	0.875 0.01603	0.8445	0.907
##	417	370	1	0.873 0.01616	0.8419	0.905
##	420	369	2	0.868 0.01641	0.8367	0.901
##	426	366	1	0.866 0.01654	0.8340	0.899
##	436	365	1	0.863 0.01666	0.8314	0.897
##	438	364	1	0.861 0.01678	0.8288	0.895
##	446	363	1	0.859 0.01690	0.8262	0.893
##	448	362	1	0.856 0.01702	0.8236	0.890
##	449	361	1	0.854 0.01714	0.8211	0.888
##	455	360	1	0.852 0.01726	0.8185	0.886
##	456	359	1	0.849 0.01737	0.8159	0.884
##	460	358	1	0.847 0.01748	0.8133	0.882
##	465	356	1	0.845 0.01759	0.8107	0.880
##	471	355	1	0.842 0.01771	0.8081	0.878
##	476	354	2	0.837 0.01792	0.8030	0.873
##	481	352	1	0.835 0.01803	0.8004	0.871
					0.7978	
##	486	351	1	0.833 0.01813		0.869
##	490	349	1	0.830 0.01824	0.7952	0.867
##	491	348	2	0.825 0.01844	0.7901	0.862
##	495	346	1	0.823 0.01854	0.7875	0.860
##	503	345	1	0.821 0.01864	0.7849	0.858
##	518	344	1	0.818 0.01874	0.7824	0.856
##	525	343	1	0.816 0.01884	0.7798	0.854
##	529	341	1	0.814 0.01893	0.7772	0.851
##	530	339	1	0.811 0.01903	0.7747	0.849
##	535	338	1	0.809 0.01912	0.7721	0.847
##	536	337	1	0.806 0.01922	0.7695	0.845
##	537	336	1	0.804 0.01931	0.7670	0.843
##	544	334	1	0.802 0.01940	0.7644	0.840
##	545	333	1	0.799 0.01949	0.7618	0.838
##	547	331	1	0.797 0.01958	0.7592	0.836
##	548	330	1	0.794 0.01967	0.7566	0.834
##	550	329	2	0.789 0.01984	0.7515	0.829
π <b>π</b>	550	020	4	0.100 0.01004	0.1010	0.029

	FF0	207		0 707 0 04000	0.7400	0 007
##	552	327	1	0.787 0.01993	0.7489	0.827
##	554	325	1	0.785 0.02001	0.7463	0.825
##	563	324	1	0.782 0.02010	0.7438	0.823
##	571	321	1	0.780 0.02018	0.7412	0.820
##	575	320	1	0.777 0.02027	0.7386	0.818
##	578	319	1	0.775 0.02035	0.7360	0.816
##	579	318	1	0.772 0.02043	0.7334	0.814
##	586	317	1	0.770 0.02051	0.7308	0.811
##	594	316	2	0.765 0.02067	0.7257	0.807
##	595	314	1	0.763 0.02075	0.7231	0.804
##	600	312	1	0.760 0.02082	0.7205	0.802
##	612	311	1	0.758 0.02090	0.7179	0.800
##	622	309	1	0.755 0.02097	0.7153	0.798
##	624	306	2	0.750 0.02113	0.7101	0.793
##	629	303	1	0.748 0.02120	0.7075	0.791
##	637	300	1	0.745 0.02128	0.7049	0.788
##	646	298	1	0.743 0.02125	0.7023	0.786
##	650	297	1	0.740 0.02133	0.6996	0.784
##	670	291	1	0.740 0.02143	0.6969	0.784
		289	1	0.735 0.02158	0.6942	
##	679			0.733 0.02165		0.779
##	687	288	1		0.6916	0.776
##	707	286	1	0.730 0.02173	0.6889	0.774
##	714	285	1	0.728 0.02180	0.6862	0.772
##	727	282	1	0.725 0.02188	0.6834	0.769
##	731	281	1	0.723 0.02195	0.6807	0.767
##	732	280	1	0.720 0.02203	0.6780	0.764
##	742	274	1	0.717 0.02210	0.6753	0.762
##	745	273	1	0.715 0.02218	0.6725	0.759
##	747	272	1	0.712 0.02225	0.6697	0.757
##	748	271	1	0.709 0.02232	0.6670	0.755
##	754	270	1	0.707 0.02239	0.6642	0.752
##	762	267	1	0.704 0.02247	0.6615	0.750
##	769	264	1	0.701 0.02254	0.6587	0.747
##	772	263	1	0.699 0.02261	0.6559	0.745
##	776	261	1	0.696 0.02268	0.6531	0.742
##	790	259	1	0.693 0.02275	0.6503	0.740
##	795	257	1	0.691 0.02282	0.6474	0.737
##	797	256	1	0.688 0.02289	0.6446	0.734
##	801	254	1	0.685 0.02296	0.6418	0.732
##	805	253	1	0.683 0.02303	0.6389	0.729
##	819	252	1	0.680 0.02310	0.6361	0.727
##	838	251	1	0.677 0.02316	0.6333	0.724
##	842	249	1	0.674 0.02323	0.6305	0.722
##	855	246	1	0.672 0.02330	0.6276	0.719
##	857	245	1	0.669 0.02336	0.6247	0.716
##	859	243	1	0.666 0.02343	0.6219	0.714
##	861	241	1	0.663 0.02349	0.6190	0.711
##	865	240	1	0.661 0.02356	0.6161	0.709
##	866	239	1	0.658 0.02362	0.6133	0.706
##	867	238	1	0.655 0.02368	0.6104	0.703
##	876	236	1	0.652 0.02375	0.6075	0.701
##	883	234	1	0.650 0.02381	0.6046	0.698
##	889	233	1	0.647 0.02387	0.6017	0.695
##	891	232	1	0.644 0.02393	0.5988	0.693
			_			

##	945	225	1	0.641 0.02399	0.5959	0.690
##	956	224	1	0.638 0.02405	0.5929	0.687
##	959	223	1	0.635 0.02412	0.5899	0.685
##	960	222	1	0.633 0.02418	0.5870	0.682
##	981	216	1	0.630 0.02424	0.5839	0.679
##	982	215	1	0.627 0.02430	0.5809	0.676
##	983	214	1	0.624 0.02437	0.5778	0.673
##	991	212	1	0.621 0.02443	0.5748	0.671
##	1002	210	1	0.618 0.02449	0.5717	0.668
##	1080	207	1	0.615 0.02455	0.5686	0.665
##	1090	203	1	0.612 0.02462	0.5655	0.662
##	1093	201	1	0.609 0.02468	0.5624	0.659
##	1094	199	1	0.606 0.02475	0.5592	0.656
##	1105	195	2	0.600 0.02488	0.5528	0.650
##	1108	193	1	0.596 0.02495	0.5495	0.647
##	1157	188	1	0.593 0.02501	0.5463	0.644
##	1162	187	1	0.590 0.02508	0.5430	0.641
##	1164	186	1	0.587 0.02515	0.5397	0.638
##	1170	184	1	0.584 0.02521	0.5364	0.635
##	1174	182	1	0.581 0.02528	0.5331	0.632
##	1192	178	1	0.577 0.02534	0.5297	0.629
##	1193	176	1	0.574 0.02541	0.5263	0.626
##	1207	173	1	0.571 0.02548	0.5229	0.623
##	1218	170	1	0.567 0.02555	0.5194	0.620
##	1219	169	1	0.564 0.02562	0.5160	0.617
##	1225	167	1	0.561 0.02569	0.5125	0.613
##	1253	159	1	0.557 0.02577	0.5088	0.610
##	1279	157	1	0.554 0.02585	0.5051	0.607
##	1280	156	1	0.550 0.02592	0.5015	0.603
##	1296	155	1	0.546 0.02600	0.4978	0.600
##	1306	153	1	0.543 0.02607	0.4941	0.596
##	1329	151	1	0.539 0.02614	0.4904	0.593
##	1337	149	1	0.536 0.02622	0.4867	0.590
##	1366	139	1	0.532 0.02631	0.4827	0.586
##	1371	138	1	0.528 0.02640	0.4787	0.582
##	1387	137	1	0.524 0.02649	0.4747	0.579
##	1388	136	1	0.520 0.02657	0.4707	0.575
##	1420	134	1	0.516 0.02666	0.4667	0.571
##	1449	127	1	0.512 0.02675	0.4625	0.568
##	1460	125	1	0.508 0.02685	0.4582	0.564
##	1525	116	1	0.504 0.02698	0.4536	0.560
##	1528	114	1	0.499 0.02710	0.4490	0.555
##	1587	109	1	0.495 0.02724	0.4442	0.551
##	1589	108	1	0.490 0.02737	0.4394	0.547
##	1601	106	1	0.486 0.02750	0.4346	0.543
##	1675	94	1	0.480 0.02768	0.4291	0.538
##	1684	91	1	0.475 0.02788	0.4235	0.533
##	1701	89	1	0.470 0.02807	0.4179	0.528
##	1730	77	1	0.464 0.02836	0.4113	0.523
##	1753	72	1	0.457 0.02869	0.4044	0.517
##	1806	67	1	0.450 0.02906	0.3969	0.511
##	1814	66	2	0.437 0.02974	0.3822	0.499
##	1990	39	1	0.426 0.03102	0.3690	0.491
##	2034	36	1	0.414 0.03233	0.3550	0.482

##	2039	35	1		0.03350	0.3414	0.473				
##	2093	27	1		0.03541	0.3235	0.463				
##	2286	10	1		0.04862	0.2650	0.458				
##	2456	3	1	0.232	0.10020	0.0997	0.541				
##											
##		GBSG2\$horTh=yes time n.risk n.event survival std.err lower 95% CI upper 95% CI									
##											
##	169	240	1		0.00416	0.988	1.000				
##	177	239	2		0.00717	0.974	1.000				
##	180	237	1		0.00826	0.967	1.000				
##	184	236	1		0.00922	0.961	0.997				
##	227	233	1		0.01009	0.955	0.995				
##	238	231	1		0.01090	0.950	0.992				
##	272	230	1		0.01164	0.944	0.990				
##	275	229	1		0.01233	0.938	0.987				
##	286	228	1		0.01298	0.933	0.984				
##	308	226	1		0.01359	0.928	0.981				
##	357	224	1		0.01418	0.922	0.978				
##	369	222	1		0.01475	0.917	0.975				
##	374	221	1		0.01529	0.912	0.971				
##	377	220	1		0.01581	0.906	0.968				
##	392	219	1		0.01631	0.901	0.965				
##	394	218	1		0.01678	0.896	0.962				
##	410	217	1		0.01724	0.891	0.958				
##	426	216	1		0.01768	0.886	0.955				
##	473	212	1		0.01813	0.880	0.952				
##	475	211	1		0.01855	0.875	0.948				
##	491	210	1		0.01896	0.870	0.945				
##	498	209	1		0.01936	0.865	0.941				
##	500	208	1		0.01975	0.860	0.938				
##	502	207	1		0.02012	0.855	0.934				
##	504	206	1		0.02049	0.850	0.930				
##	515	205	1		0.02084	0.845	0.927				
##	533	204	1		0.02119	0.840	0.923				
##	540	203	1		0.02152	0.835	0.919				
##	542	202	1		0.02185	0.830	0.916				
##	544	201	1		0.02217	0.825	0.912				
##	548	200	2		0.02278	0.815	0.905				
##	552	198	1		0.02307	0.811	0.901				
##	554	197	1		0.02336	0.806	0.897				
##	557	196	1		0.02364	0.801	0.894				
##	559	195	1		0.02391	0.796	0.890				
##	564	194	1		0.02418	0.791	0.886				
##	573	192	1		0.02444	0.786	0.882				
##	577	191	1		0.02470	0.781	0.878				
##	598	190	1		0.02495	0.777	0.875				
##	632	189	1		0.02520	0.772	0.871				
##	648	188	1		0.02544	0.767	0.867				
##	662	187	1		0.02568	0.762	0.863				
##	675	186	1		0.02591	0.757	0.859				
##	698	184	1		0.02613	0.753	0.855				
##	712	183	1		0.02636	0.748	0.851				
##	722	181	1		0.02658	0.743	0.847				
##	729	179	1	0.789	0.02679	0.738	0.843				

##	730	178	1	0.785	0.02701	0.733	0.839
##	755	172	1	0.780	0.02723	0.729	0.835
##	784	169	1	0.775	0.02746	0.723	0.831
##	797	168	1		0.02768	0.718	0.827
##	799	167	1		0.02790	0.713	0.823
##	827	164	1		0.02812	0.708	0.819
##	836	162	1	0.757	0.02833	0.703	0.814
##	855	161	1		0.02855	0.698	0.810
##	859	158	1		0.02876	0.693	0.806
##	890	155	1	0.743	0.02897	0.688	0.802
##	893	154	1	0.738	0.02919	0.683	0.797
##	918	152	1	0.733	0.02939	0.678	0.793
##	956	148	1	0.728	0.02961	0.672	0.788
##	964	147	1	0.723	0.02982	0.667	0.784
##	1036	142	1		0.03004	0.661	0.779
##	1043	141	1		0.03026	0.656	0.775
##	1059	140	1	0.708	0.03047	0.650	0.770
##	1120	132	1	0.702	0.03070	0.645	0.765
##	1140	131	1	0.697	0.03093	0.639	0.760
##	1146	130	1	0.692	0.03116	0.633	0.755
##	1150	129	1	0.686	0.03137	0.627	0.751
##	1183	125	1	0.681	0.03160	0.622	0.746
##	1246	122	1	0.675	0.03183	0.616	0.741
##	1280	120	1	0.670	0.03206	0.610	0.735
##	1343	113	1		0.03232	0.603	0.730
##	1352	111	1	0.658	0.03257	0.597	0.725
##	1363	108	1	0.652	0.03284	0.590	0.719
##	1459	105	1	0.645	0.03310	0.584	0.714
##	1463	104	1	0.639	0.03336	0.577	0.708
##	1481	103	1	0.633	0.03361	0.570	0.702
##	1493	98	1	0.627	0.03388	0.564	0.697
##	1502	96	1	0.620	0.03415	0.557	0.691
##	1521	93	1	0.613	0.03443	0.549	0.685
##	1641	87	1	0.606	0.03475	0.542	0.678
##	1679	83	1		0.03509	0.534	0.672
##	1763	69	1		0.03564	0.524	0.664
##	1807	65	1		0.03623	0.514	0.657
##	1918	44	1	0.568	0.03774	0.499	0.647
##	1975	41	1		0.03928	0.482	0.637
##	1977	40	1	0.540	0.04066	0.466	0.626
##	1989	38	1		0.04201	0.450	0.615
##	2015	32	1		0.04379	0.431	0.603
##	2018	30	1		0.04551	0.411	0.590
##	2030	27	1		0.04734	0.390	0.577
##	2372	13	1	0.438	0.05603	0.341	0.563

plot(thf\_fit,lty=1:2,main="GBSG2",ylab="Probability",xlab="Survival Time")

# GBSG2

