Macropodoid Modelling

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```r
library(RPANDA)
```

```
## Loading required package: picante
## Loading required package: ape
## Loading required package: vegan
## Warning: package 'vegan' was built under R version 3.5.2
## Loading required package: permute
## Loading required package: lattice
## This is vegan 2.5-4
## Loading required package: nlme
```

```r
library(dplyr); library(gridExtra)
```

```
## Warning: package 'dplyr' was built under R version 3.5.2
##
## Attaching package: 'dplyr'
## The following object is masked from 'package:nlme':
##
##     collapse
## The following objects are masked from 'package:stats':
##
##     filter, lag
## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
##
## Attaching package: 'gridExtra'
## The following object is masked from 'package:dplyr':
##
##     combine
```

```r
library(geiger); library(phytools)
```

```
## Loading required package: maps
```

```r
library(parallel); library(pspline)
library(mvMORPH); library(cladeMode)
```

```
## Loading required package: corpcor
## Loading required package: subplex
## ##
## ## mvMORPH package (1.1.0)
```

```
## ## Multivariate evolutionary models
## ##
## ## See the tutorials: browseVignettes("mvMORPH")
## ##
## ## To cite package 'mvMORPH': citation("mvMORPH")
## ##
##
## Attaching package: 'mvMORPH'
## The following object is masked from 'package:geiger':
##
##     aicw
## Loading required package: arbutus
## Loading required package: mvtnorm
##
## Attaching package: 'cladeMode'
## The following object is masked from 'package:arbutus':
##
##     arbutus
```

```
library(awtools); library(ggplot2); library(ggridges) # show_col(mpalette); or pie(rep(1, length(mpalet
```

```
##
## Attaching package: 'ggridges'
## The following object is masked from 'package:ggplot2':
##
##     scale_discrete_manual
```

Now read in the data files we'll be working with

```
macro.data <- read.csv("/Users/Ian/Google.Drive/ANU Herp Work/Macropod_Dating/FossilUncertainty/CrownHe
min.tree <- read.nexus("/Users/Ian/Google.Drive/ANU Herp Work/Macropod_Dating/FossilUncertainty/Macro_M
#mean.tree <- read.nexus("/Users/Ian/Desktop/Macropod_Dating/Operators/Macro_MeanAges_Constrained/Macro
#max.tree <- read.nexus("/Users/Ian/Desktop/Macropod_Dating/Operators/Macro_MaxAges_Constrained_PF/Macr
#cp.min <- read.nexus("/Users/Ian/Desktop/Macropod_Dating/Operators/Macro_CPMinAges_Constrained_PF/Macr
#cp.mean <- read.nexus("/Users/Ian/Desktop/Macropod_Dating/Operators/Macro_CPEstAges_Constrained_PF/Mac
#cp.max <- read.nexus("/Users/Ian/Desktop/Macropod_Dating/Operators/Macro_CPMaxAges_Constrained_PF/Macr
```

Choose the current tree we want to work with

```
tree <- min.tree
```

The C4 plant reconstruction data from Andrae

```
enviro.data <- read.csv("/Users/Ian/Google.Drive/ANU Herp Work/Macropod_Dating/Andrea_S1.csv", header=T
head(enviro.data)
```

```
##   Age Age_Error C4_recon_mean C4_recon_lower C4_recon_upper
## 1 1.0     0.002          59.2           36.7           81.6
## 2 2.0     0.001          36.6           11.8           61.3
## 3 2.5     0.008          36.0           11.2           60.8
## 4 2.8     0.005          35.4           10.5           60.2
## 5 2.8     0.013          21.8            0.0           48.1
## 6 3.0     0.005          38.8           14.3           63.3
```

And the dust flux data from Andrae

```
flux.data <- read.csv("/Users/Ian/Google.Drive/ANU Herp Work/Macropod_Dating/Aeolian_Flux.csv", header="
head(flux.data)
```

```
##          Age   A_Flux
## 1 0.05931646 108.3949
## 2 0.10874684 113.8622
## 3 0.20760760 118.6517
## 4 0.25703797 121.9088
## 5 0.35589873 109.4722
## 6 0.40532911 116.3859
```

Trim tree and data down to overlapping taxa

```
# extract the taxa that are in both the tree and
overlaps <- intersect(tree$tip.label, unique(macro.data$Taxon))
trim.tree <- drop.tip(tree, setdiff(tree$tip.label, overlaps))
trim.data <- filter(macro.data, Taxon %in% overlaps)
head(trim.data)
```

```
##            ID TI                 Taxon Taxon_notes Status   Higher_tax
## 1    AM_M3164  3 Aepyprymnus_rufescens             Modern   Potoroinae
## 2    AM_M9697  3 Aepyprymnus_rufescens             Modern   Potoroinae
## 3   AM_M14017  2 Aepyprymnus_rufescens             Modern   Potoroinae
## 4    AM_M2267  3 Aepyprymnus_rufescens             Modern   Potoroinae
## 5    AM_B6980  2 Aepyprymnus_rufescens             Modern   Potoroinae
## 6 NMV_P201155  2   Baringa_nelsonensis             Fossil Macropodinae
##   Macropodin_status  Sex Side Assemblage Deposit_type Est_age   PW H_HYPCD
## 1    non_macropodin <NA>    R     Modern         <NA>     0.0 4.39    3.89
## 2    non_macropodin    M    R     Modern         <NA>     0.0 4.33    4.30
## 3    non_macropodin    M    R     Modern         <NA>     0.0 4.61    4.69
## 4    non_macropodin <NA>    R     Modern         <NA>     0.0 4.28    4.36
## 5    non_macropodin    M    R     Modern         <NA>     0.0 3.85    4.14
## 6        macropodin <NA>    R Nelson_Bay     Non_cave     0.8 4.93    5.62
```

OR trim tree and data down to just Macropodinae

```
macros <- filter(macro.data, Higher_tax == "Macropodinae")
overlaps <- intersect(tree$tip.label, unique(macros$Taxon))
trim.tree <- drop.tip(tree, setdiff(tree$tip.label, overlaps))
trim.data <- filter(macros, Taxon %in% overlaps)
```

create a tibble to get the species means (if you haven't done this already)

```
  sp.means <- trim.data %>%
    group_by(Taxon) %>%
    summarise_at(vars(H_HYPCD), mean)
  #write.csv(sp.means, row.names=FALSE, file="/PATH/CrownHeight_Macropodinae_spMEANS.csv") # uncomment
```

Or you can just read in the file I've already prepared for the Macropodinae:

```
sp.means <- read.csv("/Users/Ian/Google.Drive/ANU Herp Work/Macropod_Dating/Couzens&Prideaux2018_dryad_
head(sp.means)
```

```
##                   Taxon  H_HYPCD
## 1   Baringa_nelsonensis 7.461111
## 2      Bohra_illuminata 6.280000
## 3     Congruus_congruus 6.865000
```

```
## 4  Dendrolagus_dorianus 4.010000
## 5 Dendrolagus_lumholtzi 3.953571
## 6 Dendrolagus_matschiei 4.045000
```

```
macro.means <- sp.means$H_HYPCD; names(macro.means) <- sp.means$Taxon
species.means <- as.data.frame(sp.means$H_HYPCD); rownames(species.means) <- sp.means$Taxon
```

If you're just working with the Macropodinae, make sure to trim the tree down

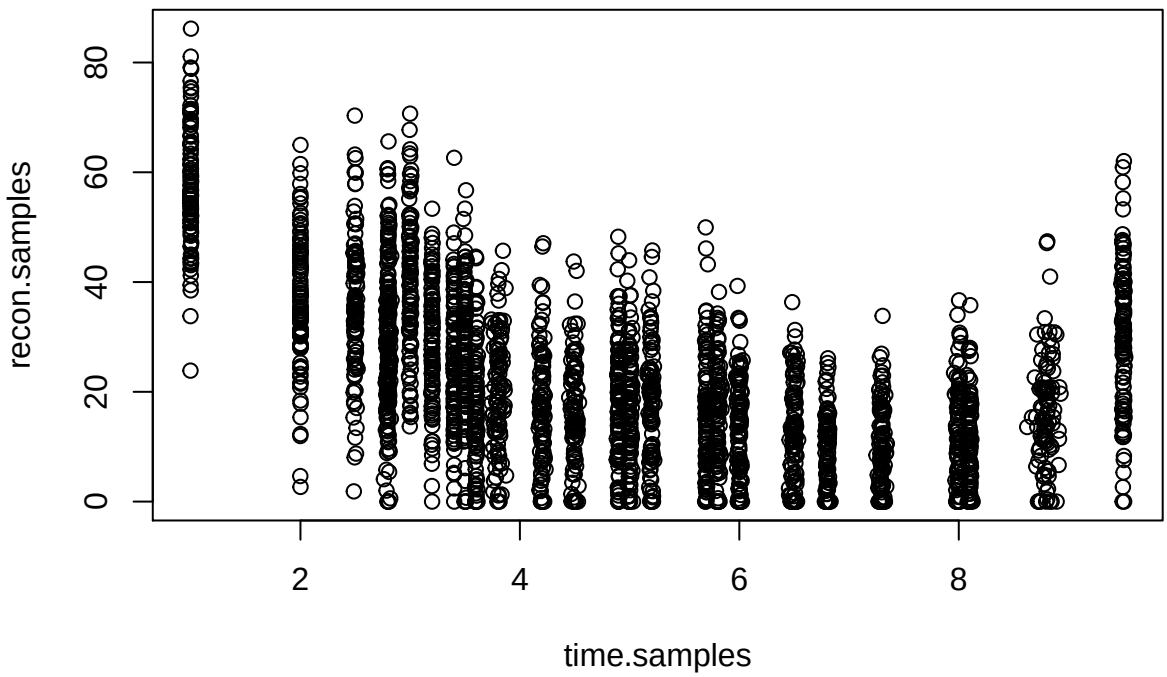
```
macros <- filter(macro.data, Higher_tax == "Macropodinae")
overlaps <- intersect(tree$tip.label, unique(macros$Taxon))
trim.tree <- drop.tip(tree, setdiff(tree$tip.label, overlaps))
```

We were only given the mean and confidence intervals for the grass data, so let's make a function to extrapolate data from those mean and confidence intervals

```
time.estimates <- function (some.data, reps){
  time.col <- NULL; recon.col <- NULL
  for(j in 1:nrow(enviro.data)) {

    time.sd <- sd(c(enviro.data$Age[j], (enviro.data$Age[j] + enviro.data$Age_Error[j]), (enviro.data$Ag
    time.samples <- rnorm(reps, enviro.data$Age[j], time.sd)
    #time.samples <- runif(reps, min=(enviro.data$Age[j] - enviro.data$Age_Error[j]), max=(enviro.data$
    time.col <- rbind(time.col, as.data.frame(time.samples))

    recon.sd <- sd(c(enviro.data$C4_recon_mean[j], enviro.data$C4_recon_lower[j], enviro.data$C4_recon_u
    recon.samples <- rnorm(reps, enviro.data$C4_recon_mean[j], recon.sd/2)
    #recon.samples <- runif(reps, min=enviro.data$C4_recon_lower[j], max=enviro.data$C4_recon_upper[j])
    recon.col <- rbind(recon.col, as.data.frame(recon.samples))
  }
  time.est.samples <- cbind(time.col, recon.col)
  time.est.samples[time.est.samples<0] <- 0
  time.est.samples[time.est.samples>100] <- 100
  time.est.samples <- time.est.samples[order(time.est.samples$time.samples),]
  return(time.est.samples)
}
```

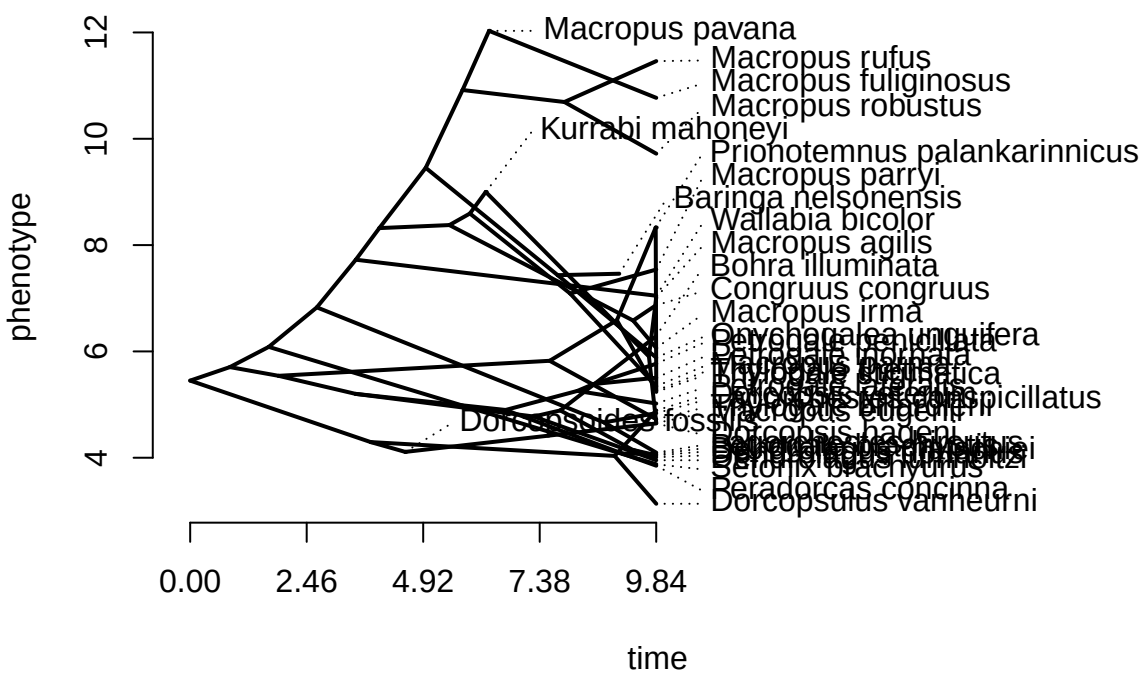
We'll actually reconstruct those data now:

```
enviro <- time.estimates(enviro.data, 100)
plot(enviro)
```

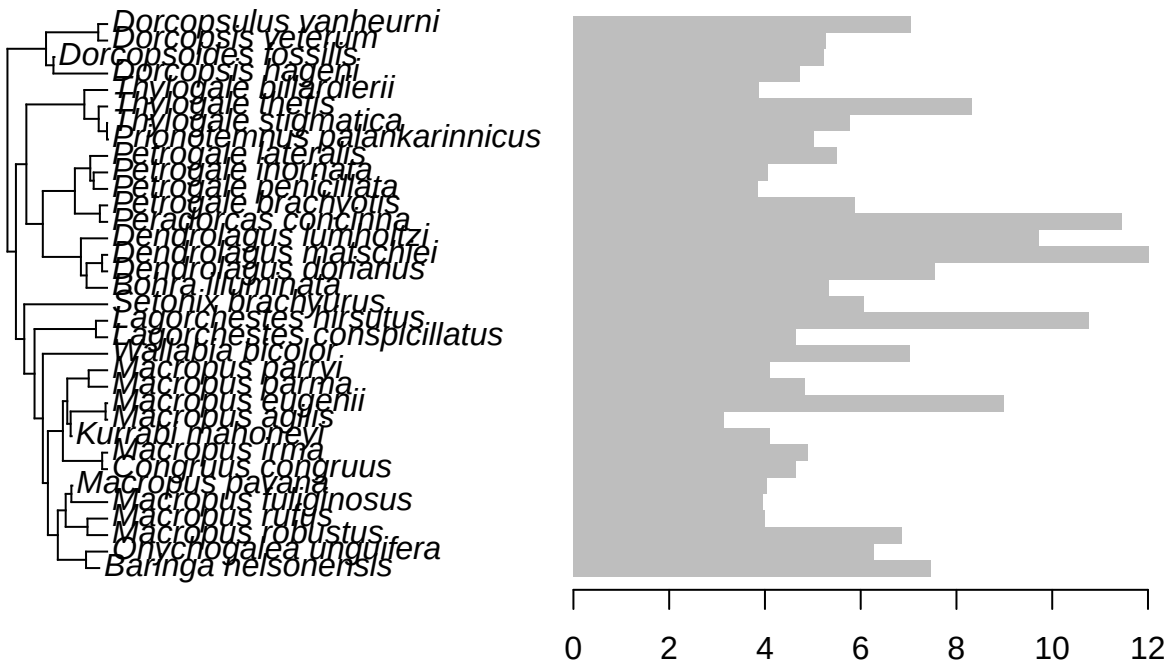


Let's quickly visualize the data in a few different ways to get an idea of what's going on

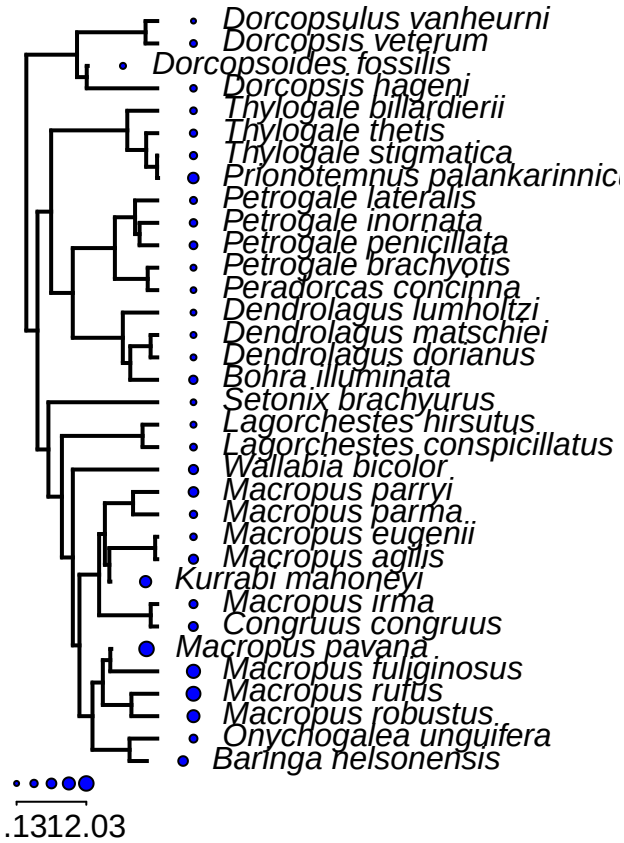
```
# first using Phenogram from Phytools
phenogram(trim.tree, macro.means)
```




```
#plotTree.wBars(trim.tree, macro.means, args.plotTree=list(border=F, fsize=0.5)) # type="fan"
plotTree.barplot(trim.tree, macro.means, args.barplot=list(beside=TRUE, border=F))
```




```
dotTree(trim.tree, macro.means, ftype="i")
```

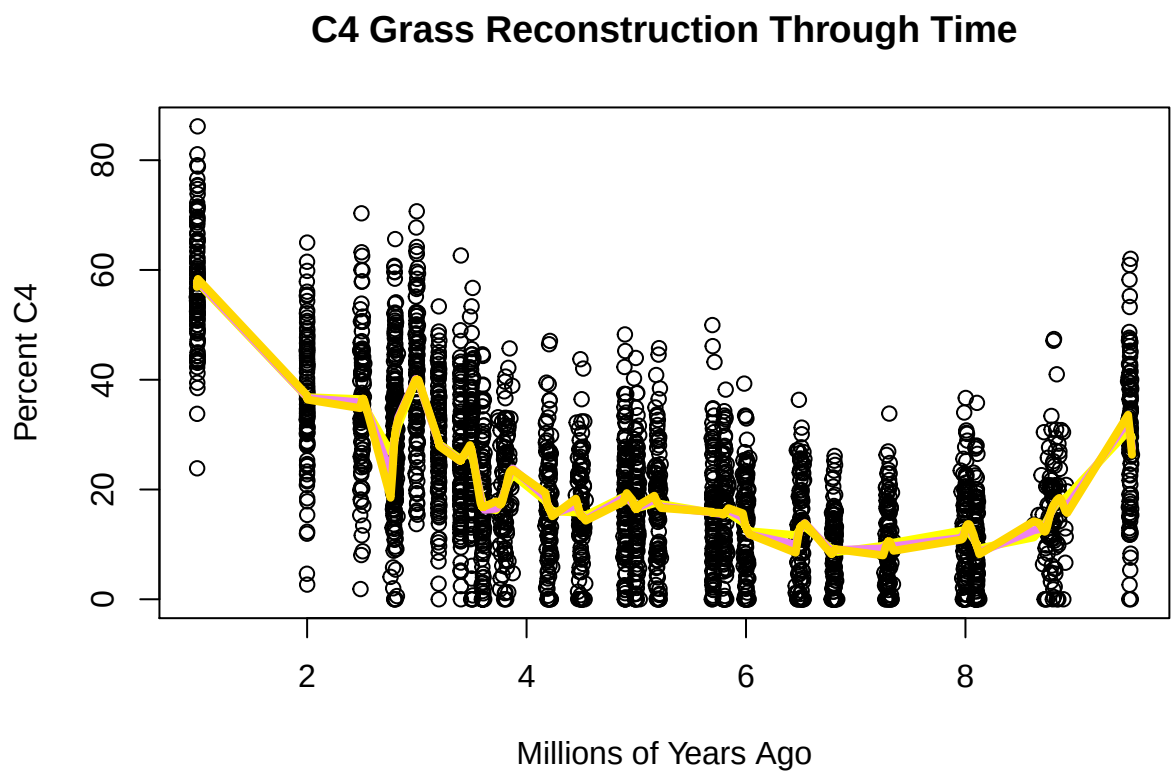


Correlative models like the environmental models in RPANDA will be sensitive to the amount of smoothing to the trend line of the input data (see Clavel & Morlon, PNAS). To address this, we'll create a function that searches for the optimum smoothness of the trend by fitting a set of values.

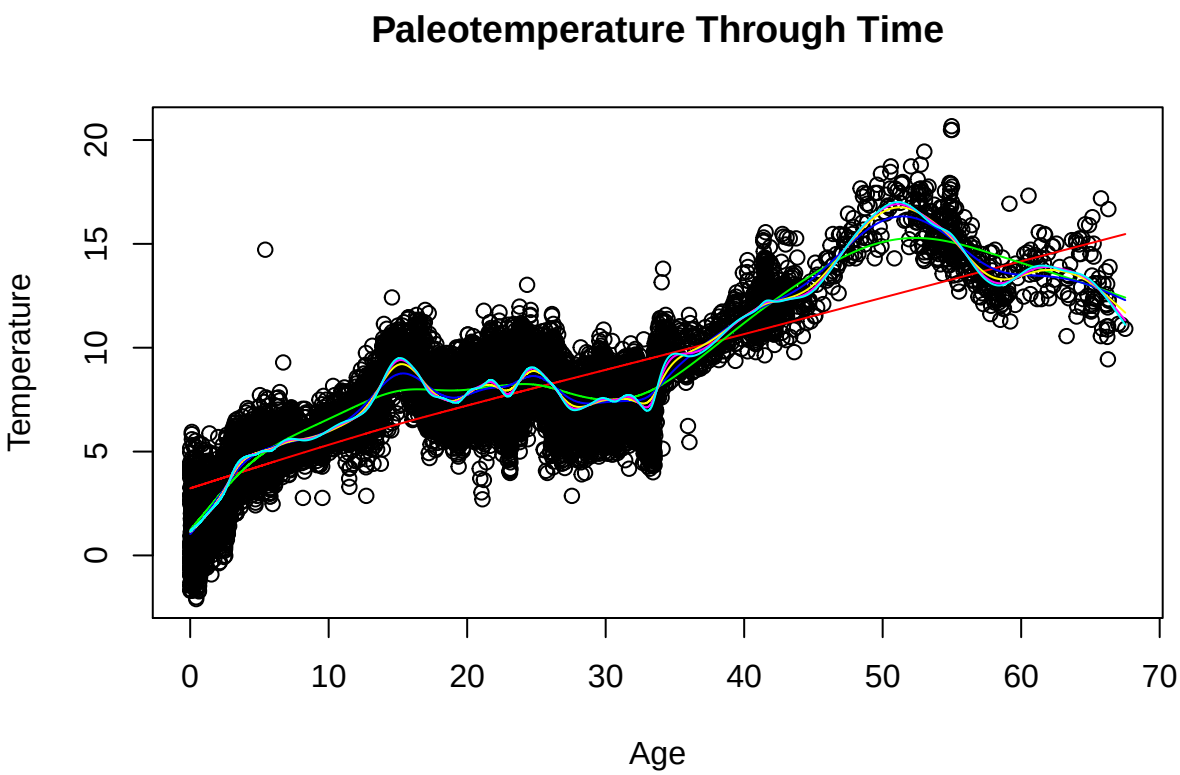
```
best.smoothing <- function (phy, trait.data, time.data=InfTemp, degrees=c(0,10,20,30,40,50), model="Envl
  res.list <- mclapply(1:length(degrees), function(x) {
    fit_t_env(phy, trait.data, env_data=time.data, df=degrees[x], scale=F, plot=T, model=model)}, mc.co
  for(i in 1:length(res.list)){res.list[[i]]$df <- degrees[i]}
  res.values <- unlist(lapply(res.list, function(x) x$aicc)) # make a vector of the values, so we can g
  best.res <- res.list[[which.min(res.values)]]

  plot(best.res, main=paste(model, "; AICc = ", round(best.res$aicc,2)), sub=paste("sigma = ",round(bes

  return(list(all.results=res.list, best.result=best.res, best.df=best.res$df))
}
```

We can have a look at what this smoothing actually does to our data. We can come back to look at these once we get the optimum fits for our models.

```
#grass.spline0  <- sm.spline(x=enviro$time.samples, y=enviro$recon.samples, df=0)
#grass.spline10 <- sm.spline(x=enviro$time.samples, y=enviro$recon.samples, df=10)
#grass.spline20 <- sm.spline(x=enviro$time.samples, y=enviro$recon.samples, df=20)
grass.spline30 <- sm.spline(x=enviro$time.samples, y=enviro$recon.samples, df=30)
grass.spline40 <- sm.spline(x=enviro$time.samples, y=enviro$recon.samples, df=40)
grass.spline50 <- sm.spline(x=enviro$time.samples, y=enviro$recon.samples, df=50)

plot(enviro, main="C4 Grass Reconstruction Through Time", xlab="Millions of Years Ago", ylab="Percent C4
#lines(grass.spline0, col="red", lwd=4)
#lines(grass.spline10, col="green", lwd=4)
#lines(grass.spline20, col="blue", lwd=4)
lines(grass.spline30, col="yellow", lwd=4)
lines(grass.spline40, col="violet", lwd=4)
lines(grass.spline50, col="gold", lwd=4)
```

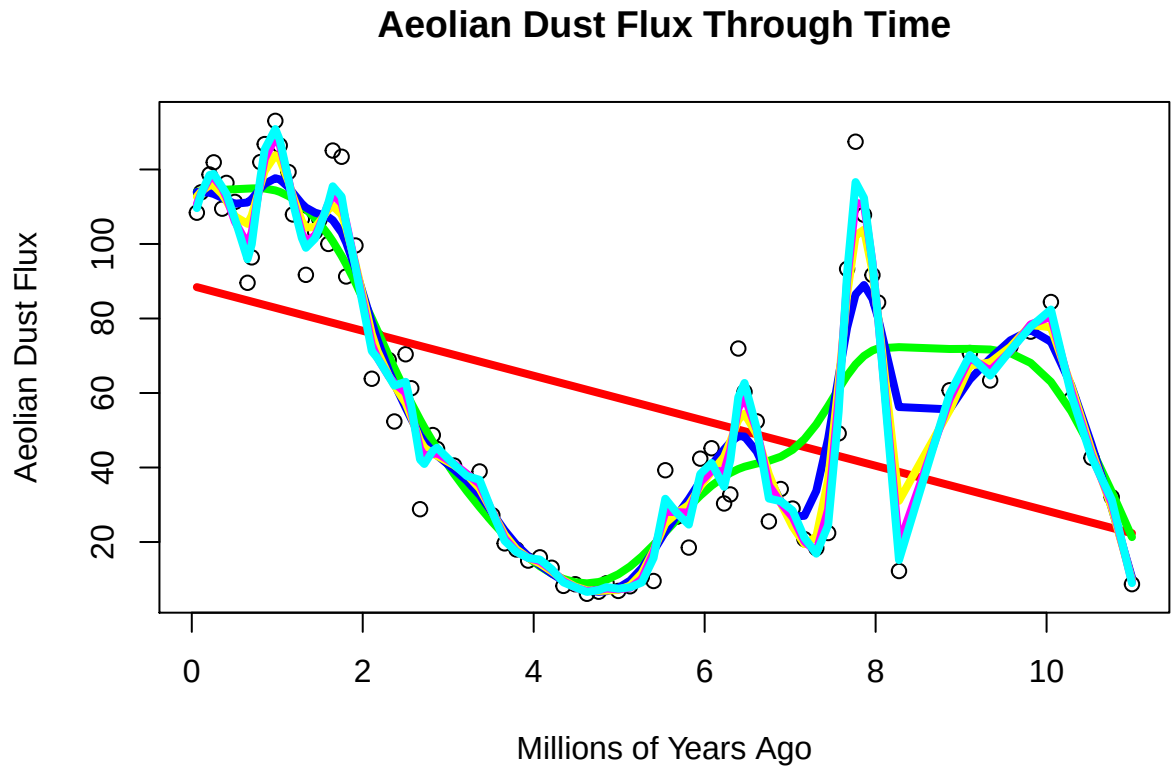


```r
data(InfTemp)
env.spline0 <- sm.spline(x=InfTemp$Age, y=InfTemp$Temperature, df=0)
env.spline10 <- sm.spline(x=InfTemp$Age, y=InfTemp$Temperature, df=10)
env.spline20 <- sm.spline(x=InfTemp$Age, y=InfTemp$Temperature, df=20)
env.spline30 <- sm.spline(x=InfTemp$Age, y=InfTemp$Temperature, df=30)
env.spline40 <- sm.spline(x=InfTemp$Age, y=InfTemp$Temperature, df=40)
env.spline50 <- sm.spline(x=InfTemp$Age, y=InfTemp$Temperature, df=50)

plot(InfTemp, main="Paleotemperature Through Time")
lines(env.spline0, col="red")
lines(env.spline10, col="green")
lines(env.spline20, col="blue")
lines(env.spline30, col="yellow")
lines(env.spline40, col="magenta")
lines(env.spline50, col="cyan")
```




```r
flux.spline0  <- sm.spline(x=flux.data$Age, y=flux.data$A_Flux, df=0)
flux.spline10 <- sm.spline(x=flux.data$Age, y=flux.data$A_Flux, df=10)
flux.spline20 <- sm.spline(x=flux.data$Age, y=flux.data$A_Flux, df=20)
flux.spline30 <- sm.spline(x=flux.data$Age, y=flux.data$A_Flux, df=30)
flux.spline40 <- sm.spline(x=flux.data$Age, y=flux.data$A_Flux, df=40)
flux.spline50 <- sm.spline(x=flux.data$Age, y=flux.data$A_Flux, df=50)

plot(flux.data, main="Aeolian Dust Flux Through Time", xlab="Millions of Years Ago", ylab="Aeolian Dust
lines(flux.spline0, col="red", lwd=4)
lines(flux.spline10, col="green", lwd=4)
lines(flux.spline20, col="blue", lwd=4)
lines(flux.spline30, col="yellow", lwd=4)
lines(flux.spline40, col="magenta", lwd=4)
```

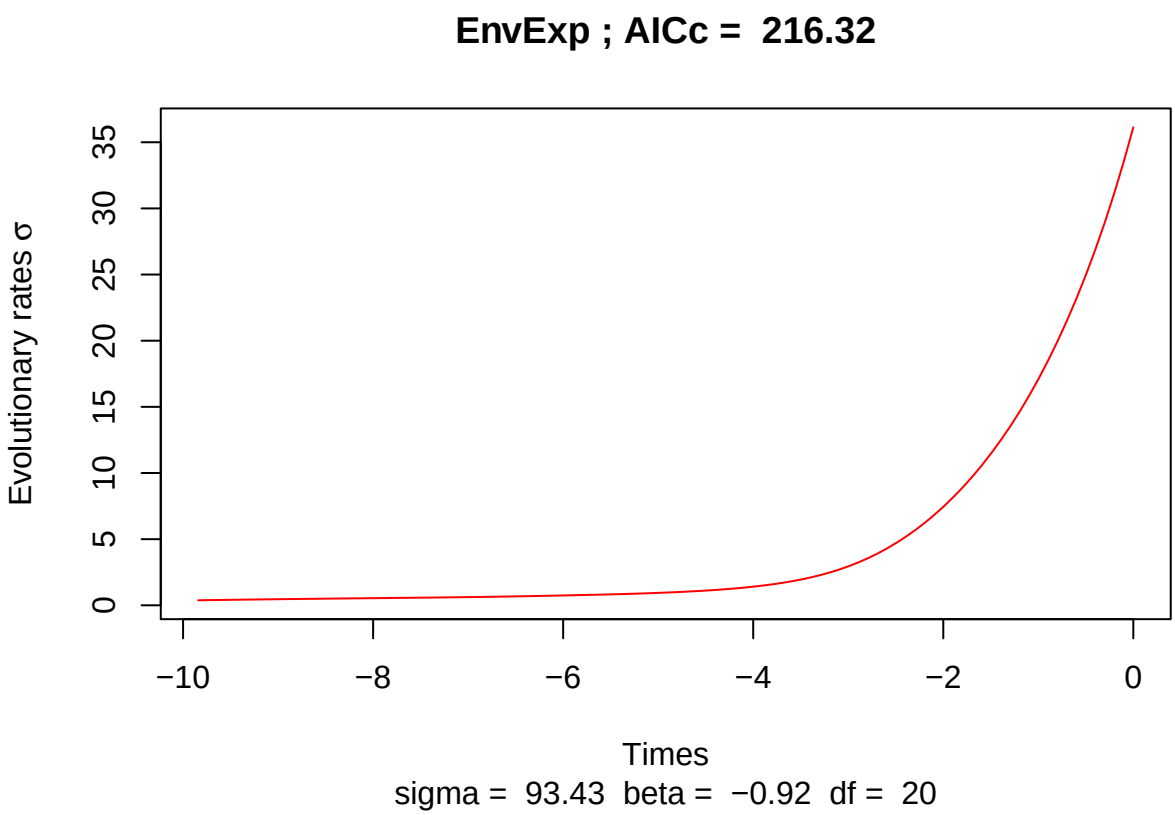
```
lines(flux.spline50, col="cyan", lwd=4)
```



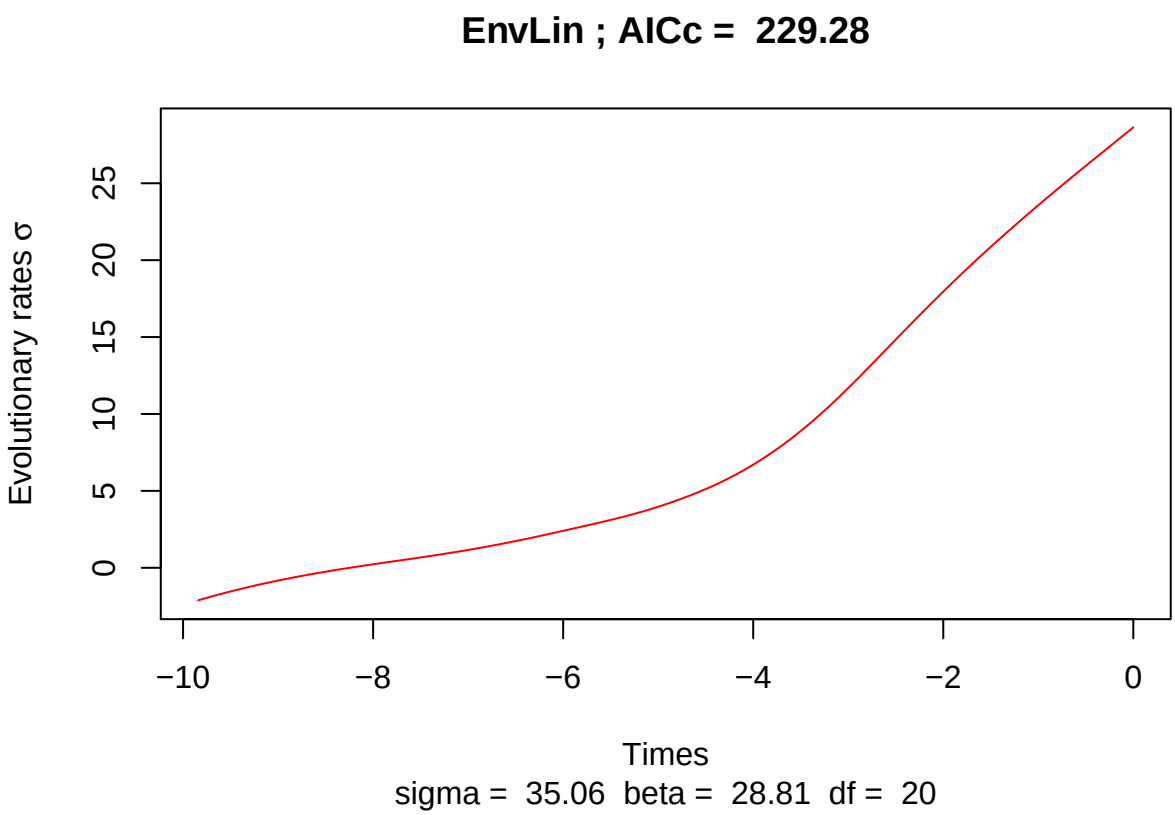
Next we'll fit a number of models to our tree and data

Start with the environmental model of paleotemperature. You can designate the number of cores and the amount of smoothing

```
# linear model first
ENVexp <- best.smoothing(trim.tree, macro.means, time.data=InfTemp, degrees=c(10,20,30,40,50), model="E
```

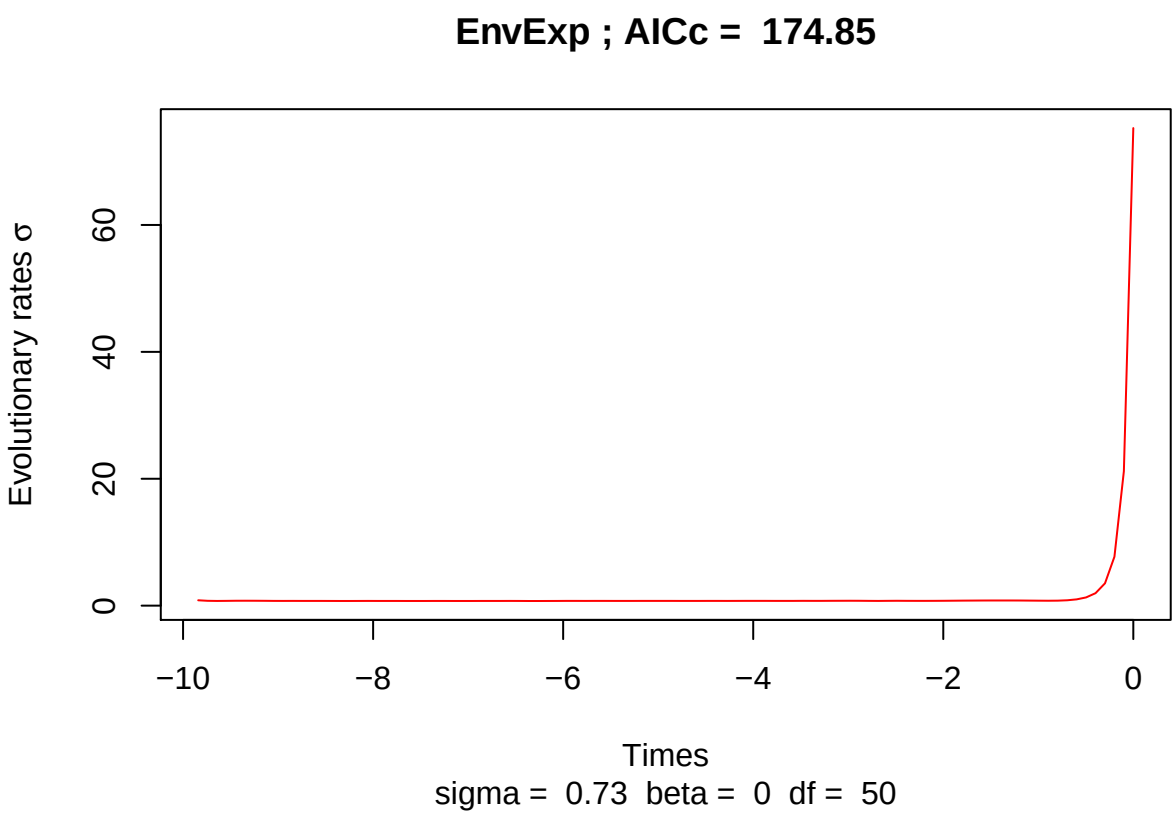



```
# exponential model next
ENVlin <- best.smoothing(trim.tree, macro.means, time.data=InfTemp, degrees=c(10,20,30,40,50), model="E
```

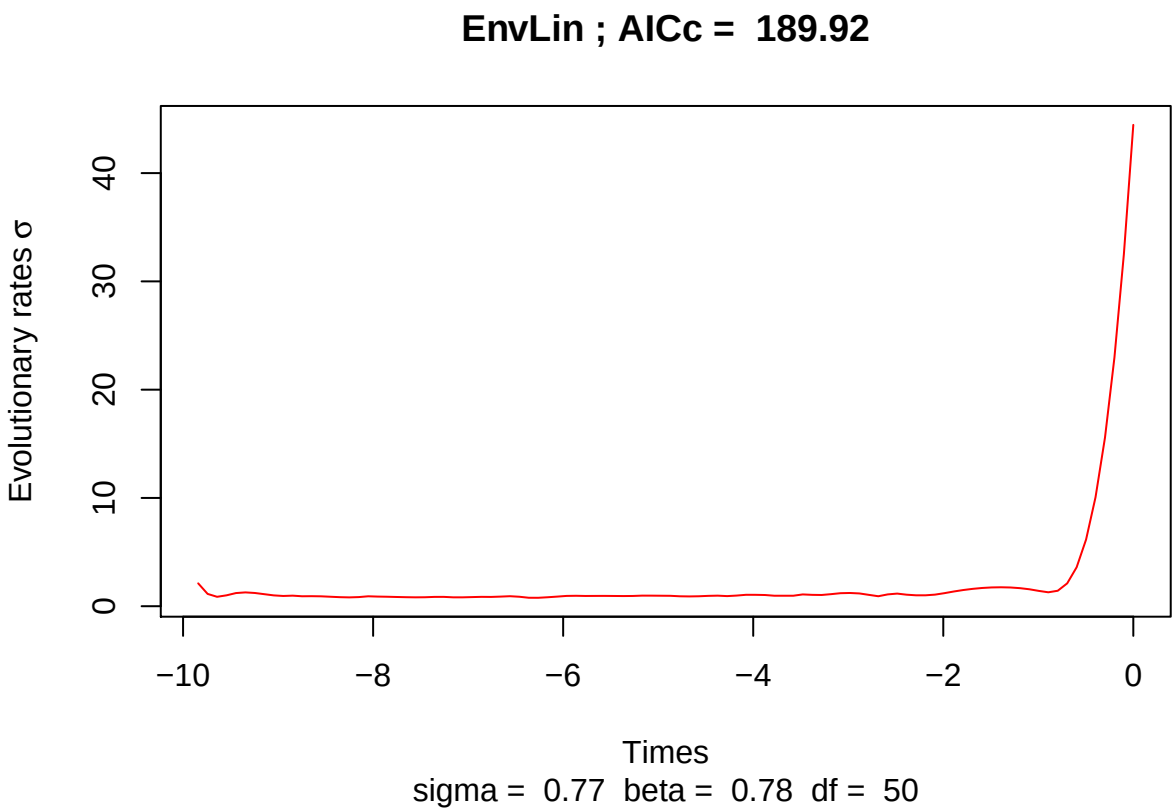


Next up the grass model, using C4 reconstructions.

```
GRASSexp <- best.smoothing(trim.tree, macro.means, time.data=enviro, degrees=c(30,40,50), model="EnvExp
```

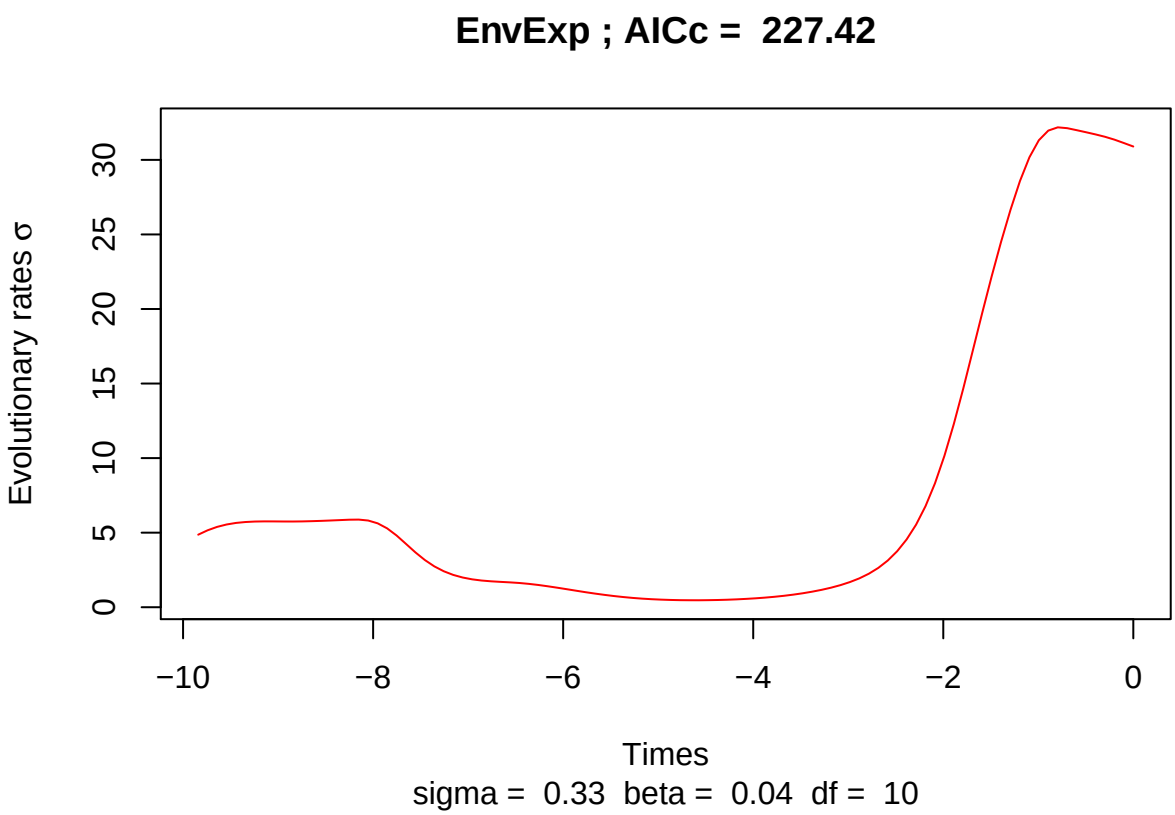


```
GRASSlin <- best.smoothing(trim.tree, macro.means, time.data=enviro, degrees=c(30,40,50), model="EnvLin
```

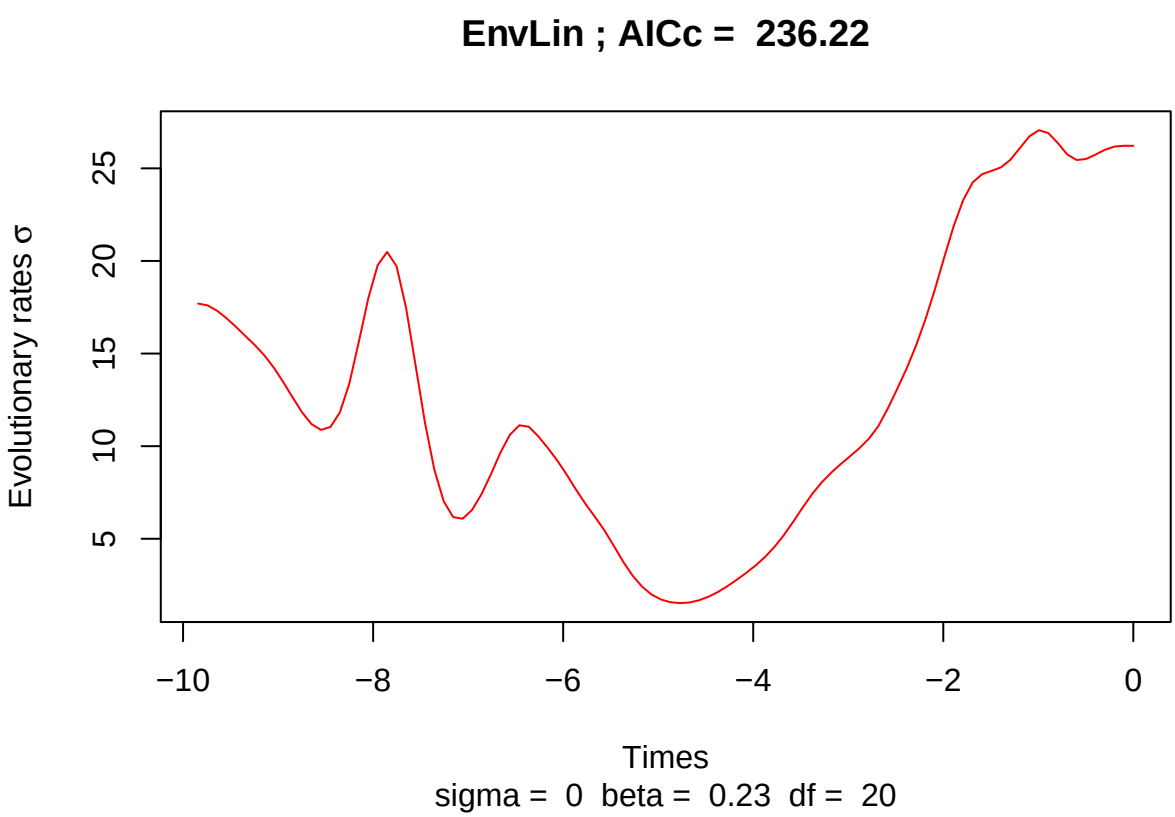


And finally the flux models, using aeolian dust measurements.

```
FLUXexp <- best.smoothing(trim.tree, macro.means, time.data=flux.data, degrees=c(10,20,30,40,50), model=
```




```
FLUXlin <- best.smoothing(trim.tree, macro.means, time.data=flux.data, degrees=c(10,20,30,40,50), model=
```



Lastly, for comparison, run a few standard models. These are Brownian Motion, Brownian Motion with a Trend,

and Early Burst.

```
BM_res <- fitContinuous(trim.tree, species.means, model="BM")
trend_res <- fitContinuous(trim.tree, species.means, model="trend")
EB_res <- fitContinuous(trim.tree, species.means, model="EB")
```

Compare the models with AICc, and check differences across the trees

```
model_FIT <- c(ENVexp$best.result$aicc, ENVlin$best.result$aicc,
                  GRASSexp$best.result$aicc, FLUXexp$best.result$aicc, FLUXlin$best.result$aicc, #GRASS
                  BM_res$opt$aicc, trend_res$opt$aicc, EB_res$opt$aicc); names(model_FIT) <- c("ENVexp"
aic.w(model_FIT)
```

```
##   ENVexp   ENVlin GRASSexp  FLUXexp  FLUXlin       BM    Trend       EB
##        0        0        1        0        0        0        0        0
```

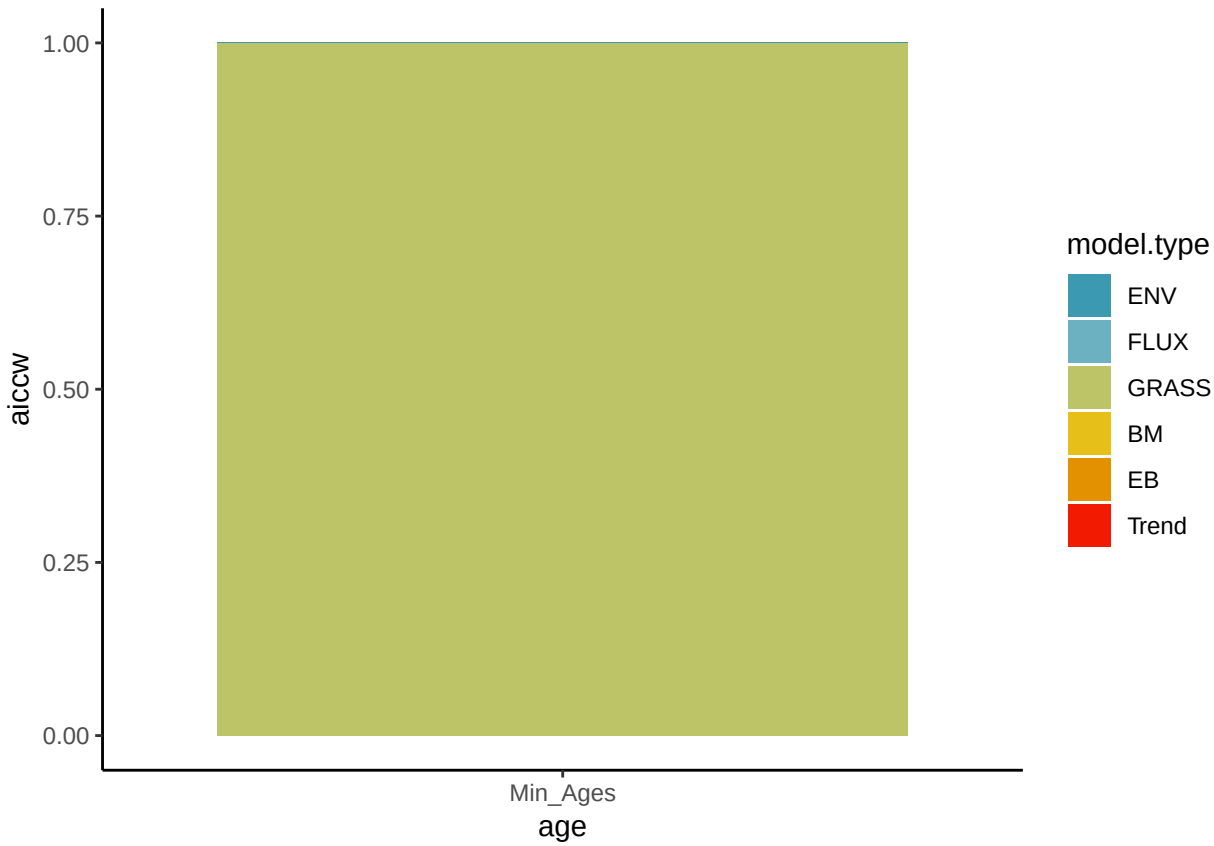
```
fit.aic <- as.data.frame(as.vector(aic.w(model_FIT))); fit.aic$model <- names(model_FIT); colnames(fit.a
```

Quickly collapse models from the same data

```
fit.aic$model.type <- c("ENV", "ENV", "GRASS", "FLUX", "FLUX", "BM", "Trend", "EB")
fit.aic$model.type <- factor(fit.aic$model.type, levels=c("ENV", "FLUX", "GRASS", "BM", "EB", "Trend"))
```

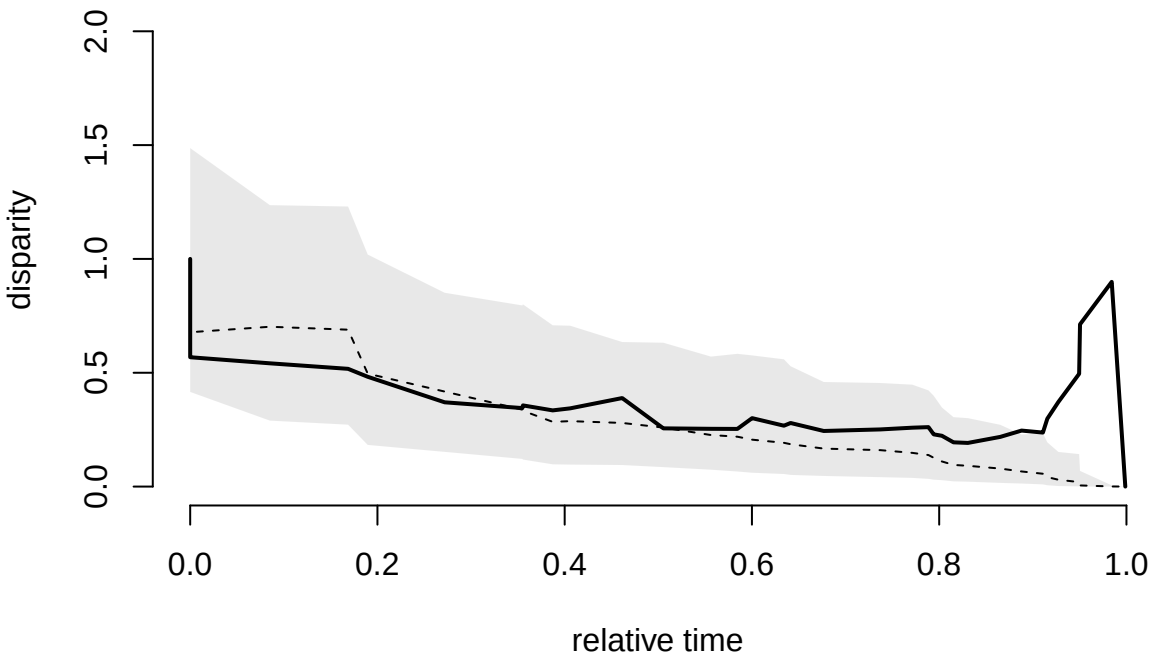
Then plot the model fits as AICc weights

```
library(wesanderson)
(ggplot(fit.aic)
  + geom_bar(aes(y=aiccw, x=age, fill=model.type), stat="identity")
  #+ theme(axis.text.x=element_text(angle=25, hjust=1), panel.background=element_blank(), legend.positi
  + theme_classic()
  + scale_fill_manual( values=wes_palette("Zissou1", 6, "continuous")))
```



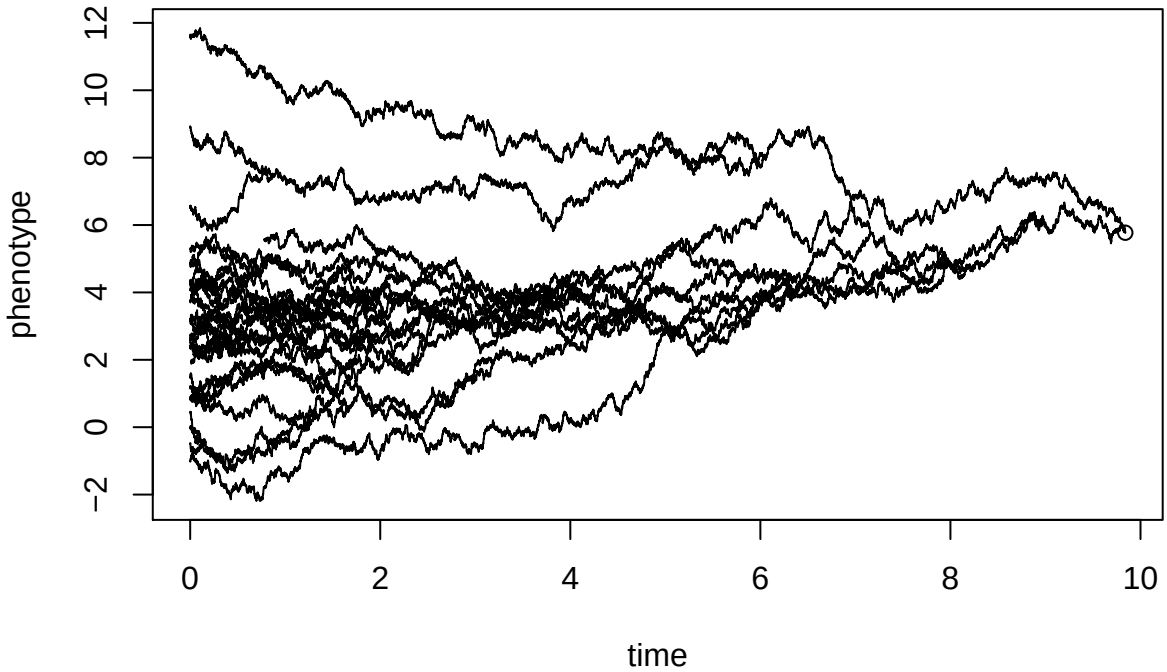
We can further look at our data by plottin Disparity Through Time to our data

```
dtt_tooth <- dtt(trim.tree, species.means, nsim=1000, plot=T)
```

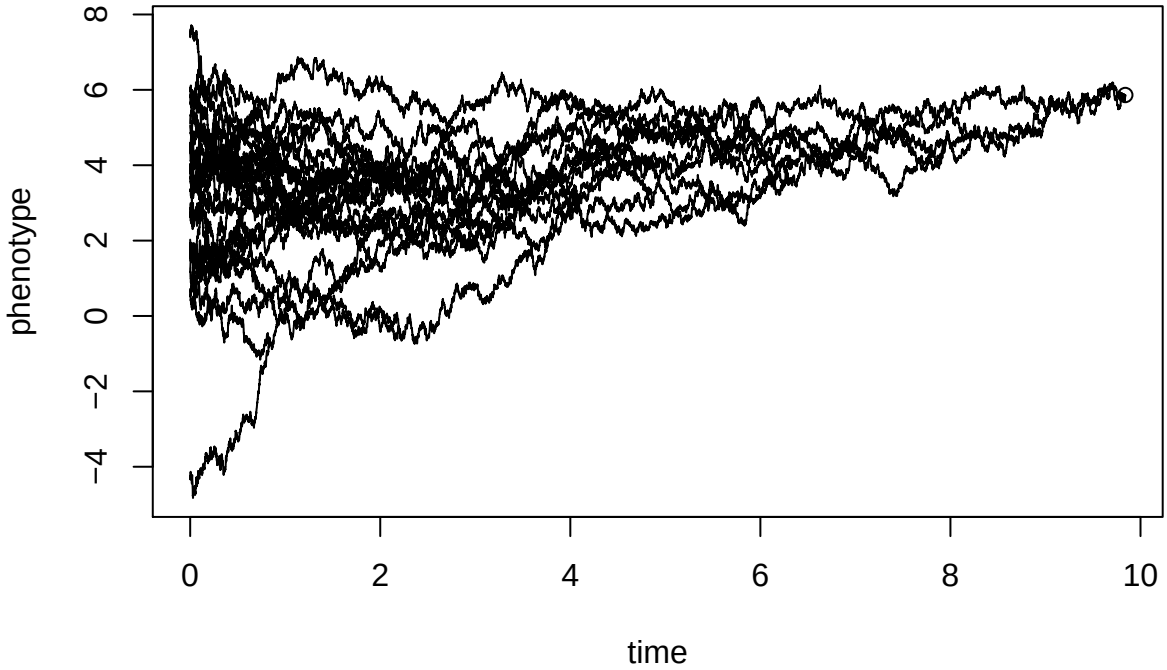


Then we can simulate data under the preferred model (GRASSexp or GRASSlin) to see if our data fits the expectation.

```
simGRASSexp <- sim_t_env(trim.tree, GRASSexp$best.result$param, model="EnvExp", env_data=enviro,
          root.value=GRASSexp$best.result$root, plot=T)
```

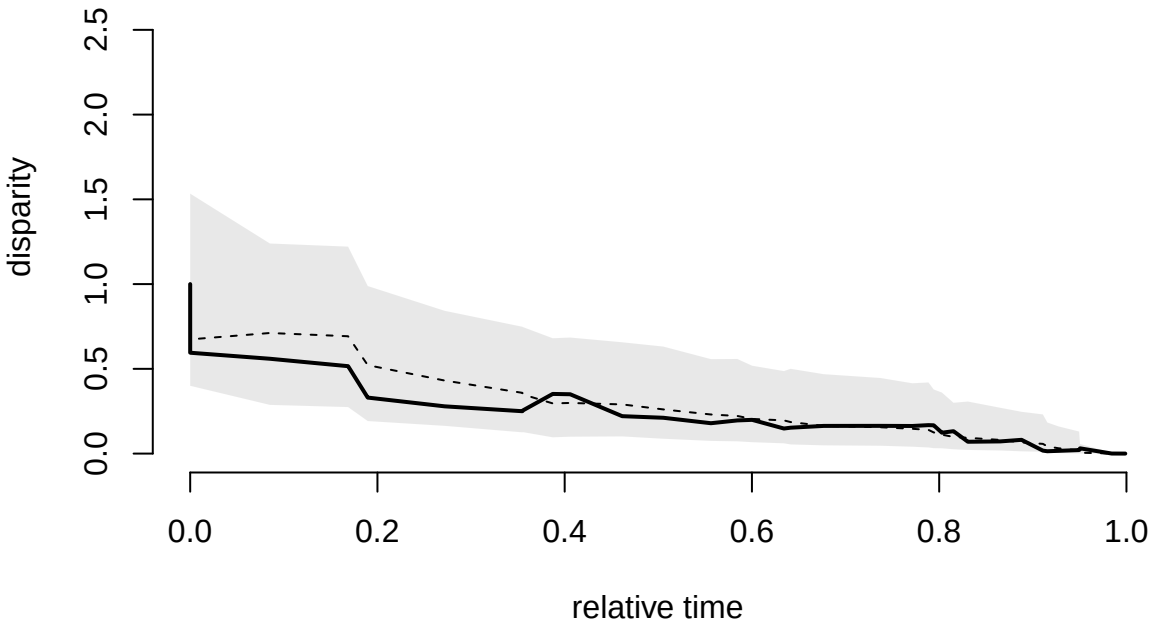



```
simGRASSlin <- sim_t_env(trim.tree, GRASSlin$best.result$param, model="EnvLin", env_data=enviro,
                         root.value=GRASSlin$best.result$root, plot=T)
```



And again run DTT on our simulated data to see if the patterns hold up.

```
dtt(trim.tree, simGRASSexp, nsim=1000, plot=T)
```




```
## $dtt
##  [1] 1.0000000000 0.5949387852 0.5594393144 0.5156916521 0.3303619907
##  [6] 0.2786986316 0.2499307382 0.2545613572 0.3519398333 0.3500439172
## [11] 0.2207082419 0.2112317497 0.1791129340 0.1956359725 0.1990325385
## [16] 0.1478916832 0.1526489755 0.1632814466 0.1635383421 0.1627203378
## [21] 0.1678188529 0.1668418013 0.1232071268 0.1320419772 0.0697644984
## [26] 0.0718651607 0.0811749931 0.0174338397 0.0138421777 0.0162277922
## [31] 0.0206486390 0.0309298288 0.0001884417 0.0000000000
##
## $times
##                    35         36         37         53         38
## 0.00000000 0.00000000 0.08513837 0.16864340 0.18963827 0.27178109
##         54         39         65         40         66         41
## 0.35481118 0.35535117 0.38724015 0.40585296 0.46143272 0.50538982
##         46         43         48         49         45         58
## 0.55619239 0.58440337 0.60018077 0.63418072 0.64129387 0.67665983
##         55         62         42         56         44         51
## 0.73720211 0.77131236 0.78855087 0.79413399 0.80288402 0.81530102
##         60         61         52         67         63         59
## 0.83065048 0.86524792 0.88798145 0.91074957 0.91548827 0.92729264
##         57         47         50         64
## 0.94945455 0.95039832 0.98426143 0.99878060
##
## $sim
##               [,1]         [,2]         [,3]         [,4]         [,5]
##  [1,] 1.0000000000 1.000000e+00 1.000000e+00 1.000000e+00 1.000000e+00
##  [2,] 0.8885122123 9.962127e-01 5.786327e-01 4.741939e-01 5.713293e-01
##  [3,] 0.5949187278 8.426903e-01 6.669197e-01 5.626281e-01 8.164064e-01
##  [4,] 0.6009878436 8.610416e-01 6.718613e-01 5.789651e-01 7.960290e-01
##  [5,] 0.4336972602 6.082837e-01 1.409970e-01 5.737468e-01 3.485600e-01
##  [6,] 0.3586271612 6.584456e-01 1.024658e-01 4.101512e-01 2.321992e-01
##  [7,] 0.3660172551 6.000973e-01 1.072078e-01 4.024764e-01 3.343110e-01
##  [8,] 0.3640473778 6.037252e-01 1.053475e-01 4.098251e-01 3.321159e-01
##  [9,] 0.2286566799 3.907975e-01 1.137369e-01 3.370276e-01 2.785756e-01
```

```
## [10,] 0.2648355890 4.019265e-01 1.090277e-01 2.763643e-01 2.698687e-01
## [11,] 0.2733223289 4.300067e-01 8.961099e-02 3.140012e-01 3.053086e-01
## [12,] 0.2467198481 2.868050e-01 9.797608e-02 2.303304e-01 3.186030e-01
## [13,] 0.1703585942 2.493420e-01 7.571195e-02 2.134566e-01 2.937699e-01
## [14,] 0.1854129471 2.388587e-01 6.915010e-02 2.163141e-01 2.564525e-01
## [15,] 0.1706682964 1.947123e-01 6.131138e-02 2.308518e-01 2.552621e-01
## [16,] 0.1702318229 1.855899e-01 6.050217e-02 2.223585e-01 2.154250e-01
## [17,] 0.1453733411 2.039640e-01 6.300892e-02 2.067330e-01 2.300600e-01
## [18,] 0.1690668445 1.904350e-01 6.013583e-02 2.018035e-01 1.997729e-01
## [19,] 0.1438790083 1.588250e-01 4.781001e-02 1.992364e-01 9.066901e-02
## [20,] 0.1450490686 1.553807e-01 4.215318e-02 2.138752e-01 9.483918e-02
## [21,] 0.1354596384 1.624703e-01 2.730932e-02 2.297333e-01 6.526584e-02
## [22,] 0.1298463552 1.655192e-01 2.164261e-02 2.226942e-01 6.673924e-02
## [23,] 0.1351116932 1.510998e-01 2.264779e-02 2.474379e-01 6.306370e-02
## [24,] 0.1297240655 1.661148e-01 2.547628e-02 2.190364e-01 6.846727e-02
## [25,] 0.0995909502 1.583772e-01 3.017472e-02 2.252785e-01 6.199939e-02
## [26,] 0.0438841199 1.758162e-01 2.355817e-02 1.552411e-01 6.965383e-02
## [27,] 0.0510303530 7.322985e-02 1.338440e-02 1.640725e-01 8.062860e-02
## [28,] 0.0272006866 7.144253e-02 1.573451e-02 1.949016e-01 9.272448e-02
## [29,] 0.0190741246 6.951075e-02 1.516146e-02 2.984055e-02 1.591184e-02
## [30,] 0.0102605817 8.190571e-02 1.395952e-02 2.797698e-02 1.981913e-02
## [31,] 0.0050761558 2.558766e-02 3.730287e-03 2.145969e-02 1.457283e-02
## [32,] 0.0002290961 1.590678e-04 2.581173e-04 2.771772e-02 1.286727e-02
## [33,] 0.0001629550 1.259214e-05 2.079531e-05 6.777079e-05 8.374092e-06
## [34,] 0.0000000000 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##               [,6]         [,7]         [,8]         [,9]        [,10]
##  [1,] 1.0000000000 1.000000e+00 1.0000000000 1.000000e+00 1.0000000000
##  [2,] 0.4517457523 6.216484e-01 0.5593208707 7.476067e-01 0.9802737064
##  [3,] 0.5873216020 3.331905e-01 0.5899567961 6.761576e-01 0.9378293993
##  [4,] 0.5872703172 3.212099e-01 0.5797630263 6.997975e-01 0.9339956273
##  [5,] 0.3403655280 2.160376e-01 0.5280286479 5.535347e-01 0.8887453454
##  [6,] 0.2928835996 1.523810e-01 0.4309133895 3.708496e-01 0.7769160414
##  [7,] 0.1820886960 1.448375e-01 0.3276196335 3.519217e-01 0.5841958225
##  [8,] 0.1888962470 1.484704e-01 0.3308724979 2.774280e-01 0.5973436517
##  [9,] 0.2031677683 1.549773e-01 0.3590974929 1.929908e-01 0.5352394492
## [10,] 0.2351682485 1.954564e-01 0.3468290304 1.672706e-01 0.6423382954
## [11,] 0.2272036172 1.760303e-01 0.2455256544 1.694620e-01 0.7160009065
## [12,] 0.3784799685 1.526075e-01 0.2889304972 1.743146e-01 0.5454676227
## [13,] 0.3066389468 9.101513e-02 0.2575068987 1.697701e-01 0.5049383538
## [14,] 0.3095592751 6.313660e-02 0.2235089693 1.333652e-01 0.5122922035
## [15,] 0.3162017140 4.369354e-02 0.2157773970 1.080751e-01 0.5437906614
## [16,] 0.2722893588 3.907848e-02 0.2101643539 1.031982e-01 0.4117010806
## [17,] 0.2932439438 3.844076e-02 0.2306925669 1.101492e-01 0.4427025621
## [18,] 0.2567120393 5.363667e-02 0.2230749454 1.150400e-01 0.4139798477
## [19,] 0.2518036682 5.188258e-02 0.2404767952 1.074861e-01 0.4188910079
## [20,] 0.2494062745 5.211628e-02 0.2311948661 1.070221e-01 0.3670648247
## [21,] 0.0918209947 5.538534e-02 0.1714296573 1.072719e-01 0.3989534661
## [22,] 0.0914583066 5.521063e-02 0.1062730788 1.156859e-01 0.3886962728
## [23,] 0.0519327403 5.994762e-02 0.1095080211 1.187867e-01 0.3206741389
## [24,] 0.0279066066 5.814494e-02 0.1014508310 1.335799e-01 0.2422401589
## [25,] 0.0303680625 6.583174e-02 0.1495612990 1.309588e-01 0.1859277149
## [26,] 0.0267020417 2.640251e-02 0.0361042827 8.725398e-02 0.2095374558
## [27,] 0.0280149063 2.206716e-02 0.0272512986 8.796768e-02 0.2074271357
## [28,] 0.0024407352 2.647417e-02 0.0213497458 9.602458e-02 0.0425416094
```

```
## [29,] 0.0013052365 2.477859e-02 0.0179246440 9.602498e-02 0.0426061383
## [30,] 0.0011210034 2.888153e-03 0.0081981709 8.695683e-02 0.0331489764
## [31,] 0.0007141813 3.533036e-03 0.0086270649 3.063410e-02 0.0004733075
## [32,] 0.0007795732 4.730957e-03 0.0037877325 9.423896e-03 0.0004869849
## [33,] 0.0008432427 8.555883e-05 0.0008680892 2.333793e-05 0.0006913180
## [34,] 0.0000000000 0.000000e+00 0.0000000000 0.000000e+00 0.0000000000
##              [,11]        [,12]        [,13]        [,14]       [,15]
##  [1,] 1.0000000000 1.0000000000 1.0000000000 1.0000000000 1.000000000
##  [2,] 0.9729038722 0.7665603155 0.5488544174 0.7951040308 0.807867419
##  [3,] 0.9547447046 0.8649088870 0.6704113325 0.8801203828 0.845804762
##  [4,] 0.9790386221 0.8649901364 0.6804820250 0.8499384224 0.860409622
##  [5,] 0.7815620641 0.6840736064 0.3532687669 0.8527425092 0.752446812
##  [6,] 0.6658137843 0.5931331493 0.2277809007 0.7128740327 1.075847556
##  [7,] 0.5625642496 0.3203801328 0.1640651006 0.6264157860 0.853715571
##  [8,] 0.5826782265 0.3254885730 0.1647664730 0.5892444579 0.847481566
##  [9,] 0.5321868981 0.2220310201 0.1577488946 0.4827149184 0.875462294
## [10,] 0.4055420707 0.2457371495 0.1640893764 0.5071541869 0.799454312
## [11,] 0.3069668920 0.2407312326 0.1596989387 0.5257223068 0.759629404
## [12,] 0.3830619057 0.2385346436 0.1496280490 0.5420682809 0.688631700
## [13,] 0.3305902647 0.2060522349 0.1159899150 0.4750410509 0.662909626
## [14,] 0.2700530478 0.1721712381 0.1113926307 0.3649052781 0.572465156
## [15,] 0.2564371365 0.1636369617 0.1039104992 0.3287335966 0.517321190
## [16,] 0.2594552912 0.1468255255 0.1038262295 0.3306893599 0.486262160
## [17,] 0.1974257623 0.1615067128 0.1007361713 0.3260711848 0.533404068
## [18,] 0.1735787427 0.1248944929 0.0949117163 0.3187588293 0.480471405
## [19,] 0.1744119502 0.1249255365 0.0855423246 0.3045242868 0.496983863
## [20,] 0.1767917530 0.1072008723 0.0887635613 0.1562081656 0.455242965
## [21,] 0.1162836721 0.0504573630 0.0972531817 0.0915241243 0.494113134
## [22,] 0.1297711676 0.0490354249 0.0666083674 0.0909863665 0.437070079
## [23,] 0.1421559956 0.0506389903 0.0495889897 0.0766179337 0.474403292
## [24,] 0.1412587523 0.0569082278 0.0480318953 0.0856197920 0.525776143
## [25,] 0.0996065611 0.0561350689 0.0442547067 0.0307588172 0.529140054
## [26,] 0.0995258366 0.0637679916 0.0460815317 0.0317260967 0.589030706
## [27,] 0.1039479817 0.0399506427 0.0433192463 0.0338234453 0.246505112
## [28,] 0.1118986290 0.0467176525 0.0445041578 0.0263538331 0.184052694
## [29,] 0.0890938839 0.0439705941 0.0075436255 0.0229743746 0.180680698
## [30,] 0.0963776436 0.0265239802 0.0074875984 0.0201058612 0.224970057
## [31,] 0.0304074601 0.0108520360 0.0082366593 0.0267368020 0.152604743
## [32,] 0.0334468624 0.0056582030 0.0002952446 0.0396563000 0.001315703
## [33,] 0.0004745932 0.0005119093 0.0003094588 0.0002617694 0.001008511
## [34,] 0.0000000000 0.0000000000 0.0000000000 0.0000000000 0.000000000
##             [,16]        [,17]        [,18]        [,19]        [,20]
##  [1,] 1.000000000 1.000000e+00 1.0000000000 1.0000000000 1.0000000000
##  [2,] 0.602355805 6.138968e-01 0.5699385875 0.6247550602 1.0013921263
##  [3,] 0.726717139 6.947403e-01 0.3509616691 0.6990100599 1.0245004192
##  [4,] 0.739853123 6.867874e-01 0.3327007473 0.5936786395 1.0401156099
##  [5,] 0.587605790 2.624475e-01 0.3341346689 0.3326750360 0.5296767350
##  [6,] 0.497180848 2.266266e-01 0.2849370260 0.3419587013 0.4813992666
##  [7,] 0.446144337 2.189787e-01 0.2489904218 0.3276274288 0.4162042874
##  [8,] 0.463274861 2.156279e-01 0.1826185513 0.3340431495 0.3987061329
##  [9,] 0.419143653 1.647551e-01 0.1567053566 0.3106462644 0.4897147014
## [10,] 0.649484340 1.814257e-01 0.1404136551 0.3608575442 0.4267441678
## [11,] 0.729791816 1.697133e-01 0.1596540410 0.4076356526 0.2042503376
## [12,] 0.693644026 1.236226e-01 0.1512546147 0.3749263979 0.1930095016
```

```
## [13,] 0.637997352 1.157164e-01 0.1325872796 0.3697865869 0.2192712419
## [14,] 0.612964419 1.246793e-01 0.1652127316 0.4360732082 0.1800644132
## [15,] 0.514752274 1.215299e-01 0.1603833591 0.3824551395 0.1255877151
## [16,] 0.371356784 1.129708e-01 0.1578480218 0.3201616901 0.0856200966
## [17,] 0.261334967 8.091065e-02 0.1735091529 0.3456738252 0.0887657606
## [18,] 0.245161369 8.574860e-02 0.1721939150 0.3357926909 0.0969145137
## [19,] 0.232611557 8.228139e-02 0.1651919271 0.3514706025 0.0996554730
## [20,] 0.248007525 7.962589e-02 0.1673269725 0.3510469882 0.0987250681
## [21,] 0.145672411 8.750375e-02 0.1828550520 0.3858305357 0.0978540026
## [22,] 0.134647041 9.038468e-02 0.1672691792 0.3391032465 0.0934616691
## [23,] 0.131173336 9.974471e-02 0.1040319393 0.2103925678 0.1038335315
## [24,] 0.130698120 1.056034e-01 0.1006379107 0.1899069109 0.1112751267
## [25,] 0.124884930 1.020136e-01 0.0910868515 0.1436800302 0.1092694058
## [26,] 0.126201550 8.089069e-02 0.0953499457 0.1574900841 0.1206776271
## [27,] 0.147207312 8.599214e-02 0.1110778473 0.1068918976 0.1131609935
## [28,] 0.146189173 8.920683e-02 0.1320320809 0.0526921918 0.1223789118
## [29,] 0.027944877 6.540332e-02 0.0779785203 0.0525753737 0.1199271769
## [30,] 0.030256435 4.287566e-02 0.0141587063 0.0434136722 0.0901315139
## [31,] 0.037789991 3.747635e-02 0.0180230523 0.0411551291 0.1026763032
## [32,] 0.038892336 2.224386e-02 0.0100208936 0.0146319184 0.0327887760
## [33,] 0.001542952 6.400854e-05 0.0001223886 0.0008899585 0.0003473182
## [34,] 0.000000000 0.000000e+00 0.0000000000 0.0000000000 0.0000000000
##              [,21]        [,22]        [,23]        [,24]        [,25]
##  [1,] 1.0000000000 1.0000000000 1.0000000000 1.000000e+00 1.0000000000
##  [2,] 0.7327139511 0.9366728076 0.7291243593 5.780567e-01 0.6683514489
##  [3,] 0.7628434105 0.8905715046 0.7078087622 4.812403e-01 0.7372769917
##  [4,] 0.7750470193 0.8669411148 0.6855779049 4.960217e-01 0.7489076358
##  [5,] 0.5031493140 0.7668325514 0.6494809965 5.173972e-01 0.7145376327
##  [6,] 0.3799306407 0.6431011049 0.6914672349 5.456481e-01 0.5187182447
##  [7,] 0.3475728361 0.7929143706 0.5792794125 5.062217e-01 0.6270313298
##  [8,] 0.3208253027 0.7883982133 0.5527594801 5.137190e-01 0.6329796580
##  [9,] 0.4150514835 0.8149865461 0.4451067163 4.481501e-01 0.4744108613
## [10,] 0.4128484664 0.8147368854 0.4631520199 5.224159e-01 0.5027318706
## [11,] 0.2776915442 0.6743644675 0.5081557547 5.934909e-01 0.5739721277
## [12,] 0.2365793417 0.5631378054 0.4515016115 5.441599e-01 0.5287693758
## [13,] 0.1810979539 0.4327678246 0.4096669350 5.142026e-01 0.4930251802
## [14,] 0.1702139271 0.4179915667 0.3757699665 4.357596e-01 0.6153582568
## [15,] 0.1854656687 0.3929000192 0.2946735484 3.130791e-01 0.6730871078
## [16,] 0.1852628056 0.3524425469 0.2717594833 2.194049e-01 0.6728186103
## [17,] 0.1930275082 0.3317326706 0.2925763626 2.302992e-01 0.5547490577
## [18,] 0.1514201917 0.1664914869 0.2662400901 2.371369e-01 0.4896056666
## [19,] 0.1439181574 0.1429663897 0.2624031143 2.400189e-01 0.5388874610
## [20,] 0.1366260169 0.1283841999 0.2059184201 2.336623e-01 0.5524852101
## [21,] 0.1285958366 0.1411727063 0.1879451119 2.517447e-01 0.6038154184
## [22,] 0.1331659876 0.0537578510 0.1855387653 2.667884e-01 0.4785222744
## [23,] 0.1478008759 0.0538316915 0.2014317121 2.950053e-01 0.4129615814
## [24,] 0.1044856247 0.0591168351 0.2213799579 3.305283e-01 0.2376293093
## [25,] 0.0631317666 0.0476093552 0.2222450103 3.209142e-01 0.1404596952
## [26,] 0.0714361531 0.0543227770 0.2503832059 3.566902e-01 0.1558870285
## [27,] 0.0794502813 0.0552754707 0.0559165024 2.806574e-01 0.1813087776
## [28,] 0.0720923824 0.0508604528 0.0653110985 3.230093e-01 0.2163670639
## [29,] 0.0571889961 0.0407868600 0.0073529705 2.030146e-01 0.1115474272
## [30,] 0.0670626072 0.0328595007 0.0082290808 1.584325e-01 0.1195156743
## [31,] 0.0559446549 0.0392840222 0.0104889843 4.287224e-02 0.0269306819
```

```
## [32,] 0.0007886276 0.0002264748 0.0146043001 6.386780e-02 0.0322291185
## [33,] 0.0004929016 0.0003976319 0.0004281847 9.371769e-05 0.0003437529
## [34,] 0.0000000000 0.0000000000 0.0000000000 0.000000e+00 0.0000000000
##              [,26]       [,27]        [,28]        [,29]       [,30]
##  [1,] 1.000000e+00 1.000000000 1.0000000000 1.000000e+00 1.000000000
##  [2,] 5.340961e-01 0.622033526 0.6184404691 6.981183e-01 0.829701980
##  [3,] 6.158297e-01 0.563175163 0.8043028035 6.541623e-01 0.596578287
##  [4,] 6.291593e-01 0.575854014 0.8169180096 6.717116e-01 0.517253193
##  [5,] 5.290793e-01 0.503534544 0.6277699236 5.610376e-01 0.332216768
##  [6,] 4.175842e-01 0.474164490 0.6026675211 4.082831e-01 0.292528864
##  [7,] 2.290214e-01 0.284201504 0.3846734324 3.358658e-01 0.233650973
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## [13,] 2.708480e-01 0.152432468 0.1893457674 0.127448663 0.0869249435
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## [16,] 1.717452e-01 0.129933055 0.1581791686 0.138618081 0.0792420962
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##  [8,] 0.4429278809 4.620612e-01 0.1682276909 0.2796668330 0.595162924
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##  [9,] 0.2712644209 0.449882807 0.329981791 4.098548e-01 0.319675052
## [10,] 0.2960529404 0.463583293 0.356579432 4.839975e-01 0.364816352
## [11,] 0.3366357950 0.523700732 0.407030821 5.300463e-01 0.367829026
## [12,] 0.4288737835 0.461401928 0.362163348 4.454005e-01 0.243965659
## [13,] 0.3872717929 0.468369484 0.283020570 4.286139e-01 0.205961480
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## [17,] 0.2052661393 0.234824531 0.303302460 2.961934e-01 0.154216282
## [18,] 0.1588864735 0.181988900 0.275276394 2.546403e-01 0.182785277
## [19,] 0.1601627461 0.133455941 0.197166851 2.607094e-01 0.177305645
## [20,] 0.1593239500 0.078322955 0.196463915 2.267720e-01 0.153046819
## [21,] 0.1560397213 0.085866128 0.213486640 2.165338e-01 0.162904176
## [22,] 0.1630508405 0.096944383 0.212838055 2.333688e-01 0.161730880
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## [26,] 0.0481559105 0.107422757 0.103044692 1.281011e-01 0.051291602
## [27,] 0.0556740122 0.119343262 0.114261428 1.405472e-01 0.056491976
## [28,] 0.0663806295 0.095891096 0.069303995 1.685741e-01 0.061433785
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## [30,] 0.0719216640 0.079494829 0.052557136 1.903673e-01 0.011033823
## [31,] 0.0394704790 0.013259826 0.066494571 1.136340e-01 0.006366272
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##  [3,] 1.096934e+00 2.351783e-01 1.0232062149 0.8963583380 7.385853e-01
##  [4,] 1.096166e+00 2.369205e-01 1.0034141052 0.9221904186 7.269588e-01
##  [5,] 9.267440e-01 1.678590e-01 0.7866861016 0.8447000595 7.203075e-01
##  [6,] 7.481817e-01 1.636605e-01 0.6570388995 0.6911176456 5.879054e-01
##  [7,] 5.672303e-01 1.685094e-01 0.5552071363 0.6343672078 3.126149e-01
##  [8,] 5.703633e-01 1.744724e-01 0.5651771068 0.6452814142 3.149244e-01
##  [9,] 3.303794e-01 1.527317e-01 0.4851065208 0.6193937337 3.174522e-01
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## [11,] 2.012536e-01 2.213425e-01 0.2154644492 0.5603923891 3.439847e-01
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## [18,] 9.709538e-02 2.717769e-01 0.1104301981 0.3670104226 2.343583e-01
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## [20,] 9.715317e-02 2.831009e-01 0.0859784230 0.3127994440 1.422395e-01
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## [23,] 9.251382e-02 9.871575e-02 0.0731781209 0.3048957732 1.359859e-01
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## [28,] 7.688094e-02 1.220051e-01 0.0200722035 0.3009941532 6.820664e-02
## [29,] 7.101954e-02 1.046583e-01 0.0195501657 0.2868839558 6.552269e-02
## [30,] 7.617881e-02 9.543122e-02 0.0235277545 0.2294675008 5.687858e-02
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## [32,] 1.276799e-02 2.045961e-02 0.0056469705 0.0186272545 5.119288e-02
## [33,] 2.135644e-06 4.272746e-06 0.0008005998 0.0002256741 7.889143e-05
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##  [4,] 0.5868658710 0.705719316 0.5755640290 0.6381015343 0.879205709
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##  [7,] 0.2911433086 0.500082110 0.2353755940 0.5931925197 0.547294717
##  [8,] 0.2885400840 0.479578061 0.2198656045 0.5841855228 0.538295087
##  [9,] 0.2277809903 0.422765155 0.1782982558 0.4864835212 0.521148177
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## [12,] 0.2306202305 0.536946340 0.1373201694 0.5780304069 0.390930731
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## [17,] 0.1991797886 0.335564391 0.1026545754 0.4521666879 0.298568664
## [18,] 0.1849512428 0.298748555 0.0927253416 0.4718786850 0.242397511
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## [27,] 7.121090e-03 0.0311331347 0.029940006 0.0670346051 0.031550149
## [28,] 6.310213e-03 0.0218126707 0.031921327 0.0692668133 0.015080167
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## [10,] 0.2817755693 0.095918666 0.2234267784 1.633687e-01 3.932443e-01
## [11,] 0.3062407806 0.109339761 0.1955023262 1.625865e-01 4.450983e-01
## [12,] 0.3366178808 0.120406710 0.1726528493 1.364938e-01 3.905808e-01
## [13,] 0.2612793792 0.115539543 0.1699186060 1.240126e-01 3.552697e-01
## [14,] 0.2650830635 0.147509789 0.1596458339 1.246723e-01 3.179237e-01
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## [16,] 0.2120809389 0.128827006 0.1488259951 1.092998e-01 2.945917e-01
## [17,] 0.2314082891 0.082947147 0.1602957041 1.190107e-01 3.234143e-01
## [18,] 0.2117800847 0.083722178 0.1591570589 1.158179e-01 2.921168e-01
## [19,] 0.2065165710 0.085689420 0.1759990515 1.148531e-01 3.018927e-01
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## [22,] 0.1924050067 0.082415052 0.0939602729 1.209910e-01 2.910345e-01
## [23,] 0.1137562435 0.081611646 0.0937036840 1.133931e-01 3.212281e-01
## [24,] 0.1279314891 0.075931216 0.0909084594 1.275009e-01 3.319942e-01
## [25,] 0.1127624838 0.061180117 0.1002177988 1.154607e-01 2.289848e-01
## [26,] 0.1251715412 0.068958154 0.0831535557 1.278921e-01 2.528948e-01
## [27,] 0.1370344659 0.079506498 0.0817799893 9.266799e-02 1.798256e-01
## [28,] 0.0731451400 0.084885353 0.0632436161 1.770625e-02 4.503789e-02
## [29,] 0.0205481968 0.046364447 0.0598586228 1.502546e-02 3.558373e-02
## [30,] 0.0104303493 0.039434621 0.0434177865 6.063669e-03 1.808632e-02
## [31,] 0.0138905423 0.010913370 0.0509480517 6.214868e-03 1.134302e-02
## [32,] 0.0076437708 0.008119038 0.0000895088 2.788374e-04 8.598004e-03
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##  [3,] 0.885193499 4.864364e-01 0.335030839 0.7362787490 0.750769537
##  [4,] 0.851396840 2.957127e-01 0.338006656 0.7478021215 0.650372862
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##  [6,] 0.563769599 2.501615e-01 0.255387576 0.6540807643 0.487354378
##  [7,] 0.485883316 1.993695e-01 0.204625634 0.3221262120 0.503206124
##  [8,] 0.484168871 1.964066e-01 0.209311104 0.3221034739 0.493162474
##  [9,] 0.425757367 1.309993e-01 0.184025045 0.2736879867 0.351064456
## [10,] 0.514429886 1.543539e-01 0.193370570 0.3474890814 0.337750564
## [11,] 0.549385924 1.578380e-01 0.218993663 0.3728999621 0.368941494
## [12,] 0.407011426 1.132834e-01 0.232269745 0.3220631659 0.374394571
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## [14,] 0.347931791 1.146998e-01 0.149501146 0.3498109674 0.369035645
## [15,] 0.518242172 1.000240e-01 0.191998990 0.4003572461 0.350036655
## [16,] 0.514098015 8.432574e-02 0.189055700 0.3354200401 0.303723494
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## [18,] 0.431632700 5.932873e-02 0.176297878 0.2512177785 0.304049024
## [19,] 0.417636081 5.817834e-02 0.167447210 0.2457963305 0.326483224
## [20,] 0.402959868 5.236142e-02 0.162183799 0.2410096500 0.285861330
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## [22,] 0.419664313 4.674460e-02 0.150000922 0.2569024873 0.171057735
## [23,] 0.457290303 5.193801e-02 0.164987010 0.2310949907 0.181141938
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##  [3,] 0.773592030 0.6962282127 0.6957728154 6.277284e-01 9.062282e-01
##  [4,] 0.687727377 0.6265363249 0.7045682553 6.377264e-01 8.655706e-01
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##  [5,] 0.540790988 0.6127500155 0.5803090372 6.446484e-01 5.167479e-01
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##  [7,] 0.416290957 0.3304687787 0.2733575199 3.357867e-01 3.398399e-01
##  [8,] 0.422515933 0.3322812874 0.2747733289 3.119751e-01 3.265143e-01
##  [9,] 0.435279872 0.5139755904 0.1751521419 2.703190e-01 2.306414e-01
## [10,] 0.475806940 0.4807694984 0.1612285330 2.512398e-01 1.890533e-01
## [11,] 0.530582186 0.2075637012 0.1767079018 2.386830e-01 1.069061e-01
## [12,] 0.389329431 0.2414577883 0.1549948155 2.918264e-01 1.056527e-01
## [13,] 0.374982937 0.1997040787 0.1402841850 2.695356e-01 1.066012e-01
## [14,] 0.336551797 0.1927716899 0.1262691564 2.521952e-01 1.003685e-01
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## [16,] 0.242420239 0.1914761967 0.1103149822 2.699473e-01 9.903710e-02
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## [19,] 0.231228222 0.1590650490 0.1100064946 2.465314e-01 1.155356e-01
## [20,] 0.231197094 0.1483602170 0.1072902978 2.573290e-01 1.100417e-01
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## [22,] 0.241542857 0.1005917316 0.1142587905 1.813509e-01 9.998223e-02
## [23,] 0.267168789 0.1114092865 0.1269474836 1.836556e-01 9.283831e-02
## [24,] 0.279928162 0.0980376889 0.1407222878 1.395429e-01 7.637304e-02
## [25,] 0.291187940 0.1000266859 0.1277683110 1.595859e-01 1.132170e-01
## [26,] 0.276281304 0.1097699336 0.1450111478 8.402660e-02 3.639715e-02
## [27,] 0.233993340 0.1005359374 0.0417850529 9.689096e-02 3.846223e-02
## [28,] 0.018748856 0.1170151739 0.0501062143 1.090245e-01 4.537315e-02
## [29,] 0.019247735 0.0840123233 0.0457038498 3.261789e-02 4.528575e-02
## [30,] 0.020164114 0.1042136257 0.0414620123 3.637529e-02 4.480785e-02
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##  [4,] 7.685770e-01 1.045825e+00 7.808560e-01 0.837860761 0.7032685263
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## [20,] 3.406064e-01 1.604158e-01 1.044995e-01 0.105659689 0.1419987996
## [21,] 2.526933e-01 1.403355e-01 7.376211e-02 0.093841380 0.1546220394
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## [24,] 1.740965e-01 6.264186e-02 7.394190e-02 0.112736502 0.0737234796
## [25,] 1.682931e-01 6.786979e-02 6.521128e-02 0.101253731 0.0716239877
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## [19,] 0.1916147746 0.1440641884 0.393075444 9.338452e-02 0.1880177206
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##  [4,] 0.617440498 5.758625e-01 0.598724932 6.692102e-01 0.5970336808
##  [5,] 0.686660308 1.920713e-01 0.565343122 5.933109e-01 0.4570858344
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## [18,] 0.159456208 1.281990e-01 0.173652839 2.179661e-01 0.1798724547
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##  [4,] 5.790716e-01 0.737918347 3.775000e-01 6.517825e-01 0.684677445
##  [5,] 4.335982e-01 0.486263138 3.831314e-01 3.795738e-01 0.632786268
##  [6,] 3.775054e-01 0.416577874 3.067155e-01 3.156383e-01 0.536691322
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##  [8,] 2.623520e-01 0.445944000 1.906383e-01 2.004426e-01 0.356427978
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## [10,] 2.839078e-01 0.385338296 1.725922e-01 1.522399e-01 0.416475986
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## [18,] 1.082040e-01 0.172192779 1.449557e-01 1.473482e-01 0.421327166
## [19,] 1.076203e-01 0.131227811 1.387554e-01 1.287268e-01 0.412011445
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##  [4,] 5.803559e-01 3.881391e-01 1.0401273425 0.828353915 5.157160e-01
##  [5,] 5.811315e-01 3.031177e-01 0.8631699706 0.557333035 4.335545e-01
##  [6,] 5.038077e-01 1.946377e-01 0.6928737412 0.486354678 3.665194e-01
##  [7,] 4.401574e-01 1.573368e-01 0.6687625289 0.381223262 2.946643e-01
##  [8,] 4.396633e-01 1.520820e-01 0.6681693720 0.326301265 2.744433e-01
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## [10,] 3.792402e-01 1.371237e-01 0.6671198078 0.357288471 1.069160e-01
## [11,] 3.976808e-01 1.234668e-01 0.3475174891 0.377271631 1.106894e-01
## [12,] 3.990250e-01 1.240901e-01 0.3416062494 0.336087166 1.101355e-01
## [13,] 3.658238e-01 8.111761e-02 0.3111981707 0.250940940 1.010220e-01
## [14,] 3.510694e-01 9.307023e-02 0.4350969036 0.242470650 9.297938e-02
## [15,] 3.202674e-01 1.027991e-01 0.4226545045 0.157950980 1.118873e-01
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## [28,] 3.569816e-02 1.668372e-02 0.0351911625 0.116332150 5.336486e-02
## [29,] 3.528769e-02 1.491092e-02 0.0305926185 0.109153336 4.081102e-02
## [30,] 4.222261e-02 1.682188e-02 0.0248664511 0.114010903 1.152550e-02
## [31,] 5.394730e-02 5.736249e-03 0.0180527176 0.013713984 1.040496e-02
## [32,] 4.725950e-02 7.447017e-04 0.0045019088 0.010775950 1.381125e-02
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##  [9,] 0.1922175905 0.4069532510 0.1039347194 2.333384e-01 0.2614092027
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## [19,] 0.1960863536 0.1521347601 0.137609500 2.174226e-01 8.743147e-02
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##  [8,] 0.238812678 3.665179e-01 0.315464925 0.4985430539 1.840824e-01
##  [9,] 0.206264516 3.166334e-01 0.321906599 0.4297163412 1.455643e-01
## [10,] 0.221528745 4.393468e-01 0.301640731 0.5049739124 1.295717e-01
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## [18,] 0.191967748 4.417236e-01 0.127030023 0.1044567451 1.059190e-01
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## [25,] 0.140315031 7.791418e-02 0.040225861 0.0395825262 4.669908e-02
## [26,] 0.106122143 8.542765e-02 0.032339692 0.0340234811 1.568179e-02
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## [29,] 0.093712641 7.738807e-02 0.012831380 0.0135718305 1.424434e-02
## [30,] 0.059339867 9.268923e-02 0.013207744 0.0067758111 1.737327e-02
## [31,] 0.014503930 1.199032e-01 0.003651373 0.0065123113 7.447850e-03
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##  [4,] 0.636904475 7.024100e-01 1.044574919 0.6321618856 0.704564924
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## [17,] 0.435942534 3.063679e-01 0.219754684 0.2251151083 0.090025283
## [18,] 0.395635079 2.282892e-01 0.174208584 0.1787787024 0.080730676
## [19,] 0.333895486 1.557987e-01 0.173099543 0.1399668371 0.081849754
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## [11,] 0.1829973689 0.4331968295 0.2779755895 0.1037879032 4.187523e-01
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## [12,] 1.994750e-01 0.336292455 0.232774463 0.203618840 4.049821e-01
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## [15,] 8.884578e-02 0.208585449 0.264510338 0.151859016 2.307145e-01
## [16,] 8.447641e-02 0.210757869 0.262476932 0.148542652 2.275188e-01
## [17,] 9.182635e-02 0.226234901 0.288098465 0.160125645 2.210706e-01
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## [31,] 4.102471e-03 0.024506914 0.001577983 0.033598747 1.885073e-02
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##  [4,] 0.9381855893 0.632904553 6.029585e-01 0.7791967769 1.016536e+00
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## [17,] 2.761951e-01 0.1818639282 0.1072163436 1.339484e-01 0.1812355411
## [18,] 2.960439e-01 0.1357458980 0.0960078063 1.248449e-01 0.1404972933
## [19,] 2.806567e-01 0.1434890564 0.0921869374 1.469384e-01 0.1233414562
## [20,] 2.829016e-01 0.1445883712 0.0661212056 1.492532e-01 0.1178436191
## [21,] 2.700578e-01 0.1378302734 0.0659765168 1.639821e-01 0.1178305558
## [22,] 2.521663e-01 0.1357293031 0.0649132576 8.959170e-02 0.1239594508
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## [24,] 2.411718e-01 0.0847821818 0.0375530495 9.035972e-02 0.0771220222
## [25,] 2.785871e-01 0.0632784416 0.0340957715 9.389943e-02 0.0685334877
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## [27,] 1.959596e-01 0.0750552638 0.0159801025 5.347755e-02 0.0854534279
## [28,] 1.733386e-01 0.0862384979 0.0184324629 5.948204e-02 0.0587512694
## [29,] 1.564901e-01 0.0780199027 0.0174333464 4.384025e-02 0.0578704979
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## [19,] 1.573955e-01 0.143351756 2.117817e-01 0.2220992564 3.332413e-01
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## [30,] 2.482860e-02 0.004037498 5.158485e-02 0.0425401597 7.086502e-02
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##  [2,] 0.8184852659 0.3910212417 0.7986422909 0.6697084788 0.6581071919
##  [3,] 0.6986431259 0.4949355797 0.9451356135 0.5154543037 0.7892756519
##  [4,] 0.7031159067 0.4900479933 0.9509597859 0.4957453160 0.7448840172
##  [5,] 0.2655346774 0.1846048245 0.6350063477 0.3568349194 0.5952191626
##  [6,] 0.2267860187 0.1629398891 0.5237489332 0.2235233007 0.4593843162
##  [7,] 0.1942964455 0.1230093469 0.6128707895 0.1935336073 0.4405317289
```

```
##  [8,] 0.1980158552 0.1266142760 0.6165803669 0.1927786868 0.4504368745
##  [9,] 0.0841630393 0.1423616441 0.5983298059 0.2120560418 0.4248424872
## [10,] 0.0908434475 0.1635927225 0.5769925891 0.2262769747 0.4941915747
## [11,] 0.1037939812 0.1355018553 0.5452076431 0.2566104623 0.5283474471
## [12,] 0.1177270805 0.1211263677 0.4842242765 0.2233137664 0.5655906848
## [13,] 0.0882986460 0.1138743378 0.4134306723 0.2376982338 0.5079097394
## [14,] 0.0958902035 0.1057521592 0.3360947102 0.2325817166 0.3757876652
## [15,] 0.0956743936 0.0812044742 0.2853552189 0.2284720215 0.3363277434
## [16,] 0.0949013749 0.0554371305 0.2841402887 0.2136920169 0.3345532396
## [17,] 0.0736845255 0.0582833067 0.3113405069 0.2039090411 0.2032681248
## [18,] 0.0667676160 0.0638527220 0.3030809977 0.1762117402 0.1360320895
## [19,] 0.0693807137 0.0606611444 0.1685594914 0.1769855360 0.1444297324
## [20,] 0.0659528033 0.0596814462 0.1047767516 0.1805149573 0.1175616745
## [21,] 0.0462055939 0.0565304410 0.1139408790 0.1884968306 0.1245534941
## [22,] 0.0317224326 0.0533628552 0.1131289061 0.1897808960 0.0869296367
## [23,] 0.0277120654 0.0520413787 0.1253732390 0.2028157531 0.0719182200
## [24,] 0.0170525207 0.0541747583 0.1363264156 0.1795168289 0.0750834310
## [25,] 0.0173607026 0.0540927904 0.1073996105 0.1629238148 0.0749703349
## [26,] 0.0188943399 0.0600911526 0.0831671414 0.1660317465 0.0856776715
## [27,] 0.0153277215 0.0627717455 0.0894039131 0.1697368514 0.0975885601
## [28,] 0.0086462917 0.0730726530 0.0595463204 0.0948817498 0.0558722247
## [29,] 0.0083606721 0.0576497845 0.0243824911 0.0716605746 0.0529453217
## [30,] 0.0076574810 0.0263123049 0.0256269566 0.0892056460 0.0164884647
## [31,] 0.0054772119 0.0317366071 0.0147376914 0.1060376143 0.0101513723
## [32,] 0.0063184606 0.0046800855 0.0046227694 0.0097935430 0.0028223773
## [33,] 0.0003995036 0.0001094997 0.0001181585 0.0005637311 0.0005416003
## [34,] 0.0000000000 0.0000000000 0.0000000000 0.0000000000 0.0000000000
##             [,986]       [,987]       [,988]       [,989]       [,990]
##  [1,] 1.0000000000 1.0000000000 1.0000000000 1.000000e+00 1.000000e+00
##  [2,] 0.6017593600 0.7720220519 0.7310933874 8.492724e-01 5.577548e-01
##  [3,] 0.4970417931 0.8380885632 0.5226570863 8.274881e-01 6.360514e-01
##  [4,] 0.4934586631 0.8396900342 0.5192590228 8.012685e-01 4.792651e-01
##  [5,] 0.4442331252 0.7752099928 0.3601551019 6.843141e-01 3.975359e-01
##  [6,] 0.4001565690 0.6148964756 0.3429619153 7.633045e-01 3.311067e-01
##  [7,] 0.3718940194 0.5485967080 0.3026959493 5.540715e-01 2.815243e-01
##  [8,] 0.3841920983 0.5095407786 0.3109315439 4.973491e-01 2.930892e-01
##  [9,] 0.3225145144 0.5478318246 0.2459522236 3.351370e-01 2.540970e-01
## [10,] 0.2960752505 0.6344191880 0.2167687470 3.569115e-01 3.697600e-01
## [11,] 0.3048886432 0.7023907789 0.2128773418 3.941637e-01 4.203674e-01
## [12,] 0.2019486825 0.7698533039 0.2298878149 3.528463e-01 4.035435e-01
## [13,] 0.1580157852 0.7132120098 0.1811827240 2.949559e-01 3.167269e-01
## [14,] 0.1478692716 0.5229175205 0.1697747350 2.564009e-01 1.783165e-01
## [15,] 0.1444122035 0.4724739732 0.1569123587 2.478947e-01 1.963470e-01
## [16,] 0.1450203138 0.4704147398 0.1457563789 2.446805e-01 1.788870e-01
## [17,] 0.1521367882 0.3718898635 0.1464610556 2.687471e-01 1.580104e-01
## [18,] 0.1278207872 0.3805292688 0.1315311471 2.436812e-01 1.402512e-01
## [19,] 0.1208727507 0.3709387953 0.1341274976 1.838018e-01 1.184922e-01
## [20,] 0.0820762443 0.3077248260 0.1305858589 1.844781e-01 1.058810e-01
## [21,] 0.0902649448 0.3209340705 0.1080813399 1.943675e-01 1.133916e-01
## [22,] 0.0868730951 0.3352081920 0.1075233786 1.968915e-01 1.143992e-01
## [23,] 0.0949813857 0.3343215072 0.0933732094 1.554580e-01 1.058579e-01
## [24,] 0.0717548492 0.3346873142 0.1045075793 1.487455e-01 5.434158e-02
## [25,] 0.0576523527 0.2993122411 0.1036973386 1.485885e-01 3.130207e-02
## [26,] 0.0580141576 0.3098094102 0.1185090508 1.695026e-01 1.877103e-02
```

```
## [27,] 0.0430972934 0.3545910493 0.0708569105 2.348031e-02 2.108673e-02
## [28,] 0.0506261307 0.2081453465 0.0840145390 2.118178e-02 2.160731e-02
## [29,] 0.0502373202 0.1627422117 0.0624517111 1.538257e-02 2.129995e-02
## [30,] 0.0625153682 0.1220991804 0.0565536605 1.839888e-02 1.325989e-02
## [31,] 0.0629136222 0.0668569215 0.0184180800 5.787855e-03 8.152564e-03
## [32,] 0.0069185530 0.0060029028 0.0269975735 1.390765e-06 4.245869e-03
## [33,] 0.0003476808 0.0007100631 0.0001055296 1.364248e-06 1.025686e-05
## [34,] 0.0000000000 0.0000000000 0.0000000000 0.000000e+00 0.000000e+00
##             [,991]       [,992]       [,993]       [,994]      [,995]
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##  [2,] 2.7306843077 0.5343129846 0.5333844451 0.9566744425 0.582227783
##  [3,] 1.9764005630 0.6922497009 0.4924047916 0.9258199952 0.741207313
##  [4,] 1.9899528895 0.6859731454 0.4987763473 0.9616861123 0.586072749
##  [5,] 1.5281699113 0.3604784715 0.2696372185 0.7299661367 0.418299430
##  [6,] 1.2456381682 0.3418072174 0.2886412271 0.6638383068 0.275812900
##  [7,] 1.1354172045 0.3245909652 0.1928844522 0.5668282603 0.284658092
##  [8,] 1.1270734933 0.3139640915 0.1638306808 0.5523526290 0.287509843
##  [9,] 0.4656026069 0.2884017157 0.1486511152 0.4158310008 0.250773581
## [10,] 0.5175476550 0.3019316516 0.1638833403 0.2262395174 0.300906022
## [11,] 0.3994405046 0.3227467306 0.1858111797 0.1940233923 0.331652566
## [12,] 0.4423117007 0.3689546116 0.1623083429 0.1802587744 0.168812107
## [13,] 0.4007845805 0.3534287224 0.1572749453 0.1982824465 0.181462723
## [14,] 0.3904583186 0.1595006275 0.1554935296 0.1634044967 0.154773511
## [15,] 0.3582108722 0.1482097342 0.1191016220 0.1359212988 0.139434780
## [16,] 0.3607739195 0.1482547401 0.0937280990 0.1115412882 0.141457529
## [17,] 0.2758430924 0.1584740683 0.1027223032 0.1145607135 0.149822662
## [18,] 0.3087671137 0.1103940977 0.0924109451 0.1001708090 0.108358980
## [19,] 0.3046459136 0.1103298041 0.0810368254 0.0911834565 0.108258003
## [20,] 0.3067992828 0.1047355612 0.0813249000 0.0856697201 0.108134472
## [21,] 0.2304882051 0.1146721569 0.0854035125 0.0768402558 0.113339744
## [22,] 0.2218700716 0.0990615329 0.0830705913 0.0659523292 0.109859004
## [23,] 0.2319344348 0.0912249687 0.0694685300 0.0712411766 0.118831358
## [24,] 0.2587739960 0.0904278552 0.0754707020 0.0705072895 0.131647048
## [25,] 0.0774731868 0.1063656780 0.0764307772 0.0704952851 0.145778657
## [26,] 0.0654556982 0.0848054941 0.0772564085 0.0792199078 0.111584746
## [27,] 0.0681664357 0.0696799718 0.0344309541 0.0654422262 0.122922373
## [28,] 0.0799261030 0.0632504081 0.0195649400 0.0765264148 0.146134558
## [29,] 0.0651481346 0.0603215258 0.0165603862 0.0717067072 0.146320453
## [30,] 0.0733798552 0.0753479529 0.0046990680 0.0787853725 0.112182390
## [31,] 0.0973476858 0.0978229649 0.0056885816 0.0965594692 0.148250497
## [32,] 0.0371230090 0.0037826041 0.0033056208 0.0067880741 0.024228700
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##             [,996]       [,997]       [,998]       [,999]     [,1000]
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##  [2,] 6.106096e-01 0.9828991732 6.880085e-01 0.6785767910 0.699014637
##  [3,] 6.342757e-01 0.8701415052 7.590349e-01 0.6005290400 0.716726693
##  [4,] 5.531752e-01 0.8036528228 7.915777e-01 0.5771396607 0.741114543
##  [5,] 5.203566e-01 0.5486127417 5.896228e-01 0.6752255264 0.562489745
##  [6,] 4.343809e-01 0.4742148373 3.157025e-01 0.5560498828 0.496683599
##  [7,] 2.100260e-01 0.4621861033 2.952870e-01 0.5938926987 0.511123727
##  [8,] 1.939897e-01 0.4592075570 3.051531e-01 0.5919291385 0.530296850
##  [9,] 1.955956e-01 0.2425992086 2.222352e-01 0.4836376295 0.529639824
## [10,] 2.032290e-01 0.2709068474 1.562517e-01 0.4632528620 0.721514600
```
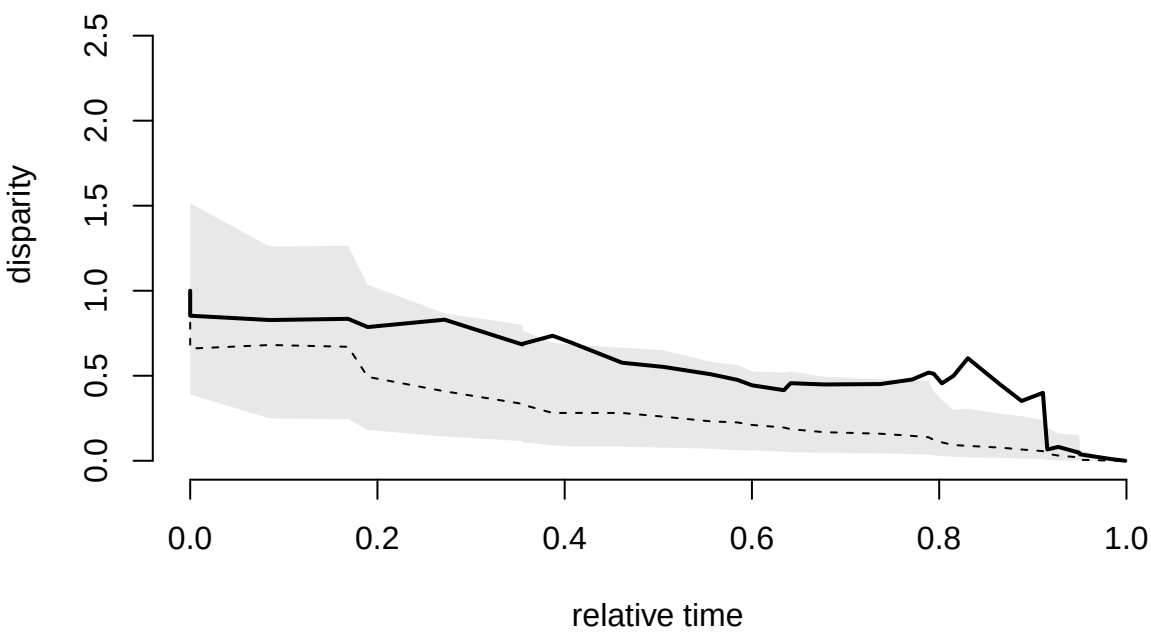

```
## [11,] 2.163216e-01 0.3013005135 1.783067e-01 0.5216763785 0.793652260
## [12,] 2.314882e-01 0.3123707964 1.872226e-01 0.5050970686 0.600198010
## [13,] 2.141011e-01 0.2651001353 1.636946e-01 0.4826140155 0.531306285
## [14,] 2.633819e-01 0.2546761581 1.304808e-01 0.4632067525 0.334696735
## [15,] 2.594654e-01 0.2311554893 1.354202e-01 0.4687794000 0.332501078
## [16,] 2.554383e-01 0.2321067504 1.025422e-01 0.4033563629 0.332575309
## [17,] 2.262141e-01 0.2133107084 1.127910e-01 0.4028973473 0.365804645
## [18,] 2.409810e-01 0.2146518792 9.103877e-02 0.3993885011 0.263874856
## [19,] 2.205415e-01 0.2011725424 9.105383e-02 0.4390493548 0.246040554
## [20,] 2.191627e-01 0.1996627752 8.150966e-02 0.3432977563 0.251413110
## [21,] 2.137830e-01 0.1644094444 5.784480e-02 0.3526409738 0.266866465
## [22,] 2.116712e-01 0.1299991186 4.608912e-02 0.2433880642 0.270179124
## [23,] 1.780703e-01 0.1339261501 4.098857e-02 0.2034966988 0.177221973
## [24,] 1.518638e-01 0.1502294168 4.580758e-02 0.1746895782 0.159097864
## [25,] 1.801894e-01 0.1094983954 4.362228e-02 0.0982526867 0.164525316
## [26,] 1.405856e-01 0.1245052677 3.496571e-02 0.1019041514 0.168994419
## [27,] 1.524605e-01 0.1216676481 3.306254e-02 0.1082239467 0.182851162
## [28,] 1.428206e-01 0.1456744406 3.692251e-02 0.1209568652 0.096438065
## [29,] 1.116745e-01 0.1413661331 3.295717e-02 0.1112826638 0.058733872
## [30,] 3.176630e-02 0.1518687049 3.615376e-02 0.1209310181 0.064931833
## [31,] 1.916081e-02 0.1497030154 4.488263e-02 0.0493193559 0.062261845
## [32,] 1.469285e-02 0.0172247813 3.308739e-02 0.0070552581 0.072405621
## [33,] 1.213227e-06 0.0006390307 1.428316e-06 0.0003666797 0.006140725
## [34,] 0.000000e+00 0.0000000000 0.000000e+00 0.0000000000 0.000000000
##
## $MDI
##      avg.sq
## -0.05982711
```

```r
dtt(trim.tree, simGRASSlin, nsim=1000, plot=T)
```




```
## $dtt
##  [1] 1.000000000 0.852940741 0.827607695 0.834582131 0.786264573
##  [6] 0.829616174 0.683710094 0.688342226 0.735219428 0.697174936
## [11] 0.576279221 0.551930129 0.508578484 0.475741227 0.443592218
```

```
## [16] 0.415099266 0.456415685 0.448613232 0.451004326 0.477949368
## [21] 0.518471543 0.512032254 0.455058970 0.499505236 0.602935471
## [26] 0.447800271 0.351402071 0.399508127 0.066384233 0.081275583
## [31] 0.047426236 0.037760751 0.009447388 0.000000000
##
## $times
##                    35         36         37         53         38
## 0.00000000 0.00000000 0.08513837 0.16864340 0.18963827 0.27178109
##         54         39         65         40         66         41
## 0.35481118 0.35535117 0.38724015 0.40585296 0.46143272 0.50538982
##         46         43         48         49         45         58
## 0.55619239 0.58440337 0.60018077 0.63418072 0.64129387 0.67665983
##         55         62         42         56         44         51
## 0.73720211 0.77131236 0.78855087 0.79413399 0.80288402 0.81530102
##         60         61         52         67         63         59
## 0.83065048 0.86524792 0.88798145 0.91074957 0.91548827 0.92729264
##         57         47         50         64
## 0.94945455 0.95039832 0.98426143 0.99878060
##
## $sim
##              [,1]        [,2]         [,3]        [,4]        [,5]
##  [1,] 1.000000000 1.000000000 1.000000e+00 1.000000000 1.000000000
##  [2,] 0.714251051 0.658121589 6.408246e-01 0.750569784 0.632768840
##  [3,] 0.452530779 0.808014949 5.650815e-01 0.827431503 0.783112004
##  [4,] 0.386181908 0.791588080 5.638314e-01 0.820933917 0.767528783
##  [5,] 0.261913914 0.711588007 4.551400e-01 0.572420766 0.420210426
##  [6,] 0.233814295 0.599763472 3.456959e-01 0.621027518 0.346260585
##  [7,] 0.209508037 0.465591853 2.569144e-01 0.565074073 0.319689887
##  [8,] 0.219140088 0.446081672 2.175443e-01 0.569663674 0.331162448
##  [9,] 0.161373521 0.439195049 2.477379e-01 0.602538008 0.286542530
## [10,] 0.245042957 0.503036229 2.830522e-01 0.592761736 0.369425752
## [11,] 0.273445183 0.548775777 3.108999e-01 0.677271660 0.404319130
## [12,] 0.182859244 0.548140590 4.083947e-01 0.555842587 0.410861817
## [13,] 0.122303224 0.348402380 3.259285e-01 0.527970020 0.386970098
## [14,] 0.167724207 0.339348788 3.040525e-01 0.472407955 0.439075220
## [15,] 0.166834539 0.382090133 2.955134e-01 0.361993229 0.330549505
## [16,] 0.142341187 0.334096917 2.653644e-01 0.366804350 0.301811047
## [17,] 0.062863200 0.314844708 2.877810e-01 0.402905162 0.292781022
## [18,] 0.062320421 0.290044000 2.644979e-01 0.360879595 0.287591659
## [19,] 0.061958755 0.289629916 2.663457e-01 0.333885031 0.292168697
## [20,] 0.061515625 0.204752545 2.656055e-01 0.282409193 0.287047348
## [21,] 0.055330753 0.176023514 1.771857e-01 0.310245059 0.290571793
## [22,] 0.057476236 0.173586728 1.694078e-01 0.298454886 0.268086958
## [23,] 0.057649443 0.176099785 1.332095e-01 0.329317570 0.109764926
## [24,] 0.051807229 0.092387935 1.424176e-01 0.344302029 0.123467724
## [25,] 0.056970487 0.092098543 1.423601e-01 0.314065297 0.101207480
## [26,] 0.028583638 0.081006103 1.625021e-01 0.357143642 0.115558176
## [27,] 0.027341940 0.094172974 1.823848e-01 0.266518214 0.134813159
## [28,] 0.013119720 0.029336513 7.741815e-02 0.039860463 0.124240202
## [29,] 0.012320453 0.029358670 7.336993e-02 0.037647313 0.051509096
## [30,] 0.015399289 0.031749214 2.184969e-02 0.037946003 0.015188617
## [31,] 0.005093183 0.034569843 1.164867e-02 0.047937440 0.016080118
## [32,] 0.006516825 0.047975047 7.647010e-05 0.057581019 0.021360605
## [33,] 0.001398270 0.001997459 8.915316e-05 0.001931669 0.001459333
```

```
## [34,] 0.000000000 0.000000000 0.000000e+00 0.000000000 0.000000000
##               [,6]        [,7]        [,8]         [,9]        [,10]
##  [1,] 1.000000e+00 1.000000000 1.000000000 1.000000e+00 1.000000e+00
##  [2,] 6.601597e-01 0.921323447 1.041199227 9.548375e-01 3.666783e-01
##  [3,] 6.736935e-01 0.898247824 0.979931636 9.431966e-01 4.365153e-01
##  [4,] 6.873871e-01 0.907204827 0.999440191 9.434385e-01 3.992478e-01
##  [5,] 4.710225e-01 0.450110165 0.964416236 7.902263e-01 3.223982e-01
##  [6,] 4.086277e-01 0.386746502 0.794128912 7.846416e-01 2.567875e-01
##  [7,] 3.627585e-01 0.367937751 0.714248407 6.653313e-01 8.312950e-02
##  [8,] 3.600206e-01 0.363946398 0.728213824 6.718118e-01 8.177279e-02
##  [9,] 2.903691e-01 0.309451139 0.767410153 7.495142e-01 1.040379e-01
## [10,] 2.536679e-01 0.281310984 0.649682741 6.632386e-01 1.072472e-01
## [11,] 2.540860e-01 0.214953015 0.423361399 4.470978e-01 7.167471e-02
## [12,] 3.006017e-01 0.197212227 0.439311583 4.144500e-01 6.150978e-02
## [13,] 2.691173e-01 0.164315603 0.419820064 3.890262e-01 5.397800e-02
## [14,] 5.182593e-01 0.197526013 0.387669748 4.402263e-01 5.683069e-02
## [15,] 4.729022e-01 0.218496239 0.349941575 4.403972e-01 4.193812e-02
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## [17,] 4.124520e-01 0.239380959 0.378623985 3.140201e-01 3.459738e-02
## [18,] 3.663237e-01 0.216190300 0.396939844 2.936408e-01 4.546918e-02
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## [26,] 2.610390e-02 0.102733039 0.0373922051 0.0489210850 0.2548812099
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## [14,] 0.109501357 0.121873548 1.554565e-01 3.874283e-01 0.322882509
## [15,] 0.103182418 0.155524746 1.121254e-01 4.128307e-01 0.221004981
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##  [4,] 7.803584e-01 4.981430e-01 0.7475352255 8.200195e-01 5.381569e-01
##  [5,] 9.128721e-01 4.177625e-01 0.4397764403 5.364827e-01 3.145266e-01
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## [12,] 0.2429073636 0.3772342119 1.891306e-01 0.168535149 2.977025e-01
## [13,] 0.2008636239 0.3528840004 1.544888e-01 0.152620972 2.725551e-01
## [14,] 0.1992890687 0.4161835313 1.330663e-01 0.135333778 2.439845e-01
## [15,] 0.1857056397 0.3823554591 1.106369e-01 0.125756571 2.836163e-01
## [16,] 0.1691592537 0.3832034873 1.104354e-01 0.119999851 2.915016e-01
## [17,] 0.1667839119 0.4142672036 1.212570e-01 0.131645363 3.142576e-01
## [18,] 0.1769397224 0.3253216231 1.222789e-01 0.129598396 2.973957e-01
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## [20,] 0.0847628756 0.3495600340 1.062253e-01 0.133243078 3.095924e-01
## [21,] 0.0921903687 0.3171347741 1.145127e-01 0.138235829 3.011200e-01
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## [23,] 0.0878283113 0.1288609980 1.037571e-01 0.075940510 1.806047e-01
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## [25,] 0.0901658329 0.1541790889 1.131937e-01 0.075611673 9.133160e-02
## [26,] 0.0808097966 0.1324150476 5.919503e-02 0.085426054 9.777817e-02
## [27,] 0.0717592552 0.1426171705 4.747048e-02 0.073429704 1.104136e-01
## [28,] 0.0849740218 0.1341909329 3.717426e-02 0.069866951 1.308412e-01
## [29,] 0.0849594479 0.0773765650 3.103182e-02 0.032328021 1.307986e-01
## [30,] 0.0275717624 0.0875771562 3.338328e-02 0.007440186 1.383035e-01
## [31,] 0.0077409194 0.0696753831 1.744378e-02 0.009912489 1.166389e-01
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##  [4,] 0.952228613 2.577113e-01 3.327458e-01 0.7679752855 0.504534309
##  [5,] 0.814977281 1.631453e-01 2.794417e-01 0.6775290159 0.417540257
##  [6,] 0.644544612 1.385855e-01 2.880405e-01 0.5297474710 0.375465945
##  [7,] 0.662613972 1.287698e-01 2.946400e-01 0.5644337831 0.393411123
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##  [9,] 0.670635341 8.391509e-02 2.825637e-01 0.3973971716 0.409739548
## [10,] 0.509973067 5.503640e-02 2.992160e-01 0.3986784433 0.416519878
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## [12,] 0.402435878 6.486660e-02 2.836051e-01 0.4519926729 0.415501825
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## [16,] 0.358510005 7.619779e-02 1.628268e-01 0.3622887016 0.260285609
## [17,] 0.367354249 7.127930e-02 1.755004e-01 0.1941648389 0.263187802
## [18,] 0.341436117 6.885371e-02 1.611392e-01 0.2034757127 0.235914215
## [19,] 0.310726024 6.035134e-02 1.175396e-01 0.2125076877 0.200426501
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## [27,] 0.275304888 5.728237e-02 6.791786e-02 0.1755867473 0.017350523
## [28,] 0.272852961 4.810397e-02 3.362701e-02 0.2096329461 0.020685774
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##  [3,] 8.221725e-01 0.9402375511 0.7283336507 0.9726102751 0.994819837
##  [4,] 8.149002e-01 0.9355971045 0.7358212857 0.8054833952 0.962287112
##  [5,] 1.996180e-01 0.8475959013 0.7542895575 0.4702096136 0.838703509
##  [6,] 1.522060e-01 0.6884289018 0.6330940365 0.3881832582 0.705349789
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##  [7,] 1.804317e-01 0.5205050128 0.2440947242 0.4066660652 0.681985077
##  [8,] 1.640398e-01 0.5261545795 0.2351692786 0.3978726085 0.677964134
##  [9,] 1.602131e-01 0.2186504800 0.2162785563 0.2869761384 0.711624583
## [10,] 1.387561e-01 0.2452244092 0.2554331478 0.2859168929 0.819712082
## [11,] 1.500667e-01 0.2690071804 0.2532107745 0.3247040481 0.626177495
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## [25,] 1.229657e-01 0.0232266536 0.0681830857 0.4083355089 0.120950575
## [26,] 1.231744e-01 0.0163285872 0.0740234026 0.1972377682 0.109739711
## [27,] 1.415728e-01 0.0155570750 0.0723693189 0.2295330976 0.124318119
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## [31,] 4.741895e-02 0.0043670575 0.0027447771 0.0457218641 0.049575229
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## [20,] 0.229160784 0.1255096076 3.459397e-01 0.1036800861 0.349815415
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## [26,] 0.163944419 0.0754393560 2.546112e-01 0.0698105743 0.109820231
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## [20,] 0.0654412419 5.801676e-02 0.211208729 1.920221e-01 0.427965919
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## [17,] 2.034936e-01 2.409222e-01 0.1410679237 0.1354552458 0.542328322
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## [31,] 1.970549e-01 5.551901e-04 0.0290087273 0.0024576307 0.023366150
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##  [9,] 0.0654288744 1.050620e-01 0.179384606 0.214423348 0.281517856
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## [26,] 0.0449091128 1.562912e-02 0.043904870 0.169305331 0.173897666
## [27,] 0.0493942013 1.688710e-02 0.051221680 0.171851760 0.188692346
## [28,] 0.0548434572 1.862219e-02 0.056580849 0.087307726 0.213138427
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## [31,] 0.0647822337 1.495370e-02 0.014424474 0.018493145 0.200341535
## [32,] 0.0005827335 5.535316e-04 0.008162384 0.001549754 0.042832452
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##  [5,] 3.846729e-01 0.5819293598 1.1033833329 0.5819351262 0.5285427675
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## [32,] 8.707477e-03 0.003485894 3.059871e-02 0.006255896 4.128288e-02
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## [19,] 0.1619179057 0.0648460654 0.095351835 1.891127e-01 0.237657343
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## [16,] 0.2100792418 1.807284e-01 0.217363377 0.1355433459 3.882638e-01
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## [19,] 0.1381460944 1.540422e-01 0.175035422 0.1530268948 3.375034e-01
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## [10,] 4.728546e-01 0.311231646 0.4415474060 0.579330711 0.2724622938
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##  [7,] 1.443832e-01 0.280633784 7.490506e-01 0.358693353 0.563023887
##  [8,] 1.535131e-01 0.274490617 7.606416e-01 0.353306726 0.546578150
##  [9,] 1.392513e-01 0.238440008 5.469064e-01 0.311812783 0.492205658
## [10,] 1.830892e-01 0.286877340 6.735017e-01 0.276738280 0.587869557
## [11,] 2.087649e-01 0.310687858 7.690034e-01 0.180989310 0.644378350
## [12,] 1.489398e-01 0.286544801 4.329908e-01 0.168813595 0.514863844
## [13,] 9.512165e-02 0.273900844 3.548472e-01 0.161284758 0.549042037
## [14,] 6.995792e-02 0.316575991 3.857207e-01 0.156676782 0.516107497
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## [16,] 1.464902e-01 0.308938178 3.375744e-01 0.149662685 0.289261248
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## [18,] 1.461102e-01 0.249307865 3.100324e-01 0.143929709 0.215028841
## [19,] 1.421841e-01 0.248987565 2.579000e-01 0.126943298 0.218535818
## [20,] 1.421411e-01 0.250592252 2.581160e-01 0.126943875 0.229957440
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## [26,] 2.265274e-02 0.097708281 2.005485e-01 0.023630204 0.255140495
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## [29,] 1.138120e-02 0.018796463 1.227198e-02 0.006249484 0.045463508
## [30,] 1.403237e-02 0.018646570 4.044406e-03 0.007085500 0.035313596
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##  [9,] 0.284838813 2.011478e-01 0.3646920697 0.7453977604 0.1695087361
## [10,] 0.339085332 2.092618e-01 0.2657888190 0.6457445604 0.1551501193
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## [13,] 0.268700978 2.044256e-01 0.2054372168 0.2402883445 0.0710150552
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## [16,] 0.210365677 1.366161e-01 0.1688101216 0.2212425156 0.0649104940
## [17,] 0.198138572 1.478268e-01 0.1795846139 0.1469118632 0.0402471146
## [18,] 0.184846495 1.534664e-01 0.1800615492 0.1527059785 0.0256299514
## [19,] 0.185394907 1.498624e-01 0.1785284752 0.1786640713 0.0263085576
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## [28,] 0.089083743 8.651239e-02 0.0338832269 0.0274043011 0.0197505915
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##  [8,] 0.3259395688 0.1384534998 0.163045985 0.3375122691 3.489848e-01
##  [9,] 0.3245487157 0.1203588949 0.187866193 0.3123951593 2.681943e-01
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##  [4,] 0.4582872245 1.0013223378 5.141220e-01 0.8843355938 6.500378e-01
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##  [6,] 0.1616881446 0.7508825364 2.796959e-01 0.4473361853 5.510754e-01
##  [7,] 0.1541372694 0.6638655825 2.749350e-01 0.2298994865 5.819285e-01
##  [8,] 0.1560101038 0.6775655561 2.736030e-01 0.2154538909 5.917763e-01
##  [9,] 0.1411721155 0.7607541080 3.268730e-01 0.2104559116 5.533259e-01
## [10,] 0.1959811191 0.6811735275 3.285395e-01 0.1630118903 6.375380e-01
## [11,] 0.2158693908 0.6360884994 2.325397e-01 0.1136660806 6.882725e-01
## [12,] 0.2468306927 0.5223990690 2.297237e-01 0.1143305987 5.049218e-01
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## [17,] 0.1751962343 0.4714846708 1.470077e-01 0.0903990121 4.128842e-01
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## [19,] 0.1348242910 0.4543564019 8.312458e-02 0.0829345387 3.434380e-01
## [20,] 0.1277429995 0.4597234414 7.094830e-02 0.0662825890 3.096425e-01
## [21,] 0.1132852451 0.4951983745 3.706443e-02 0.0699352439 2.213596e-01
## [22,] 0.1125155413 0.5341202185 3.568579e-02 0.0694131333 1.093395e-01
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## [26,] 0.0116610205 0.5560299093 3.059880e-02 0.0333066274 1.008389e-01
## [27,] 0.0129221205 0.6064652433 3.427251e-02 0.0232405409 5.524468e-02
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## [30,] 0.0127255667 0.2290020143 2.439189e-02 0.0061628656 2.424455e-02
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## [25,] 0.1078946550 1.846847e-01 0.0362581503 8.743487e-02 0.207546635
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## [28,] 0.065687795 0.216788749 0.03246780 3.482525e-02 1.271627e-01
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## [33,] 2.168558e-05 0.0010005840 0.0008159058 0.0004283602 0.0002358115
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##  [3,] 2.317564e-01 0.753184094 0.5428384880 0.490494473 1.774910e-01
##  [4,] 2.207710e-01 0.780651173 0.4955328784 0.498179893 1.777357e-01
##  [5,] 1.629749e-01 0.624631370 0.3630902808 0.433756916 1.424426e-01
##  [6,] 1.449150e-01 0.590011375 0.2957567169 0.371204240 1.318818e-01
##  [7,] 1.000290e-01 0.494876054 0.2322412612 0.410993256 1.171653e-01
##  [8,] 9.666712e-02 0.498605967 0.2233069410 0.350295389 1.181283e-01
##  [9,] 8.093675e-02 0.370821369 0.2006589634 0.335582669 1.063649e-01
## [10,] 1.150824e-01 0.459698362 0.1912715376 0.386321995 8.402531e-02
## [11,] 1.231742e-01 0.496137203 0.1655705184 0.436514534 8.118877e-02
## [12,] 1.533243e-01 0.465166375 0.1464885869 0.572847740 9.607614e-02
## [13,] 1.377447e-01 0.397400184 0.1533242686 0.521886682 9.274656e-02
## [14,] 1.244206e-01 0.271751419 0.1431783114 0.499788220 9.755279e-02
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## [17,] 7.508827e-02 0.198299403 0.1746408948 0.480151874 5.284925e-02
## [18,] 6.752396e-02 0.182037601 0.1649719311 0.432400257 3.902358e-02
## [19,] 6.857622e-02 0.171471505 0.1426986650 0.360952402 3.611165e-02
## [20,] 6.888117e-02 0.176116709 0.1451673518 0.365772883 3.623485e-02
## [21,] 7.232176e-02 0.193218815 0.1563751917 0.274151450 1.779114e-02
## [22,] 6.872946e-02 0.201473599 0.1704649902 0.253309996 1.744895e-02
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## [30,] 2.808879e-04 0.066497736 0.1583692471 0.004314603 1.140704e-03
## [31,] 3.201092e-04 0.033556890 0.0973944978 0.001519341 1.355233e-03
## [32,] 5.922465e-05 0.050267221 0.0004573421 0.001935920 1.934894e-03
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##  [4,] 0.7418885212 3.941472e-01 0.902781065 0.853978991 0.2972436272
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##  [6,] 0.3320183154 3.085419e-01 0.655854221 0.600918960 0.1862682954
##  [7,] 0.3044253714 2.631350e-01 0.493210156 0.556470574 0.1160514896
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## [21,] 0.0823503811 7.310011e-02 0.095679308 0.285790326 0.0636104305
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## [12,] 3.637755e-01 0.188052900 2.256611e-01 0.1880261001 0.72558296
## [13,] 3.060910e-01 0.159885661 1.771025e-01 0.1794832777 0.63782890
## [14,] 2.219836e-01 0.193354153 1.140667e-01 0.1703482055 0.45078393
## [15,] 2.392944e-01 0.185782015 1.379538e-01 0.1674278240 0.41068190
```

```
## [16,] 1.971808e-01 0.184980459 1.051122e-01 0.1641265327 0.41289604
## [17,] 2.160453e-01 0.127067238 1.153176e-01 0.1695147930 0.39970216
## [18,] 1.996722e-01 0.090355738 1.024319e-01 0.1122640266 0.30726642
## [19,] 2.382484e-01 0.090469397 9.808847e-02 0.1224598254 0.29280382
## [20,] 2.322201e-01 0.070554810 9.846872e-02 0.1246311130 0.29510917
## [21,] 2.404236e-01 0.076929241 1.007122e-01 0.1367964002 0.07772360
## [22,] 8.960474e-02 0.078182754 1.101943e-01 0.0988161238 0.07118235
## [23,] 9.288844e-02 0.086519714 1.191018e-01 0.1072677351 0.07240532
## [24,] 5.608563e-02 0.070075497 8.117589e-02 0.1011883955 0.07901772
## [25,] 6.842117e-02 0.060265935 8.490887e-02 0.1143091134 0.08267891
## [26,] 4.980310e-02 0.057907179 8.747603e-02 0.0871203666 0.08526090
## [27,] 5.630969e-02 0.062969326 5.918979e-02 0.0548372163 0.09786368
## [28,] 3.638087e-02 0.060962634 6.491279e-02 0.0657771023 0.10248134
## [29,] 3.531126e-02 0.031098590 5.159394e-02 0.0366216806 0.08645634
## [30,] 4.413488e-02 0.035666423 5.655444e-02 0.0370291731 0.06443359
## [31,] 5.493290e-03 0.002100832 2.661563e-03 0.0492880804 0.08095476
## [32,] 2.966506e-03 0.000508758 1.523989e-03 0.0038181617 0.03330733
## [33,] 1.582410e-06 0.001009238 4.935966e-06 0.0000350452 0.00350804
## [34,] 0.000000e+00 0.000000000 0.000000e+00 0.0000000000 0.00000000
##             [,996]       [,997]       [,998]       [,999]     [,1000]
##  [1,] 1.000000e+00 1.0000000000 1.0000000000 1.000000e+00 1.000000000
##  [2,] 6.395219e-01 0.9665530928 0.6077469072 1.137940e+00 0.747556248
##  [3,] 6.975287e-01 1.0328574007 0.6674404661 9.563766e-01 0.662920144
##  [4,] 6.962975e-01 1.0389791691 0.6903431786 9.406286e-01 0.658108957
##  [5,] 4.819064e-01 0.9771315743 0.6011279233 5.480220e-01 0.428487740
##  [6,] 4.844149e-01 0.8007473885 0.5139220358 4.282117e-01 0.415458160
##  [7,] 3.230687e-01 0.3639354144 0.5353571999 3.572606e-01 0.409476673
##  [8,] 2.981945e-01 0.3360976163 0.5509598920 3.590963e-01 0.418333986
##  [9,] 3.004490e-01 0.1741402359 0.4621402287 1.873698e-01 0.375266415
## [10,] 3.129949e-01 0.1734787490 0.5242802218 1.807175e-01 0.435110183
## [11,] 2.926129e-01 0.1927272138 0.5984767076 1.504349e-01 0.438343904
## [12,] 2.347919e-01 0.1575966482 0.4488329334 1.379611e-01 0.372177292
## [13,] 2.265571e-01 0.1489867232 0.3631989120 1.128566e-01 0.360498632
## [14,] 2.382459e-01 0.1439862953 0.4196143282 1.055817e-01 0.419569386
## [15,] 2.240975e-01 0.1705166059 0.4393470437 9.433939e-02 0.389669817
## [16,] 1.773149e-01 0.1711071111 0.4234776878 9.428357e-02 0.386650417
## [17,] 1.395229e-01 0.1877560571 0.3072018714 1.007779e-01 0.347657075
## [18,] 1.802942e-01 0.1965934991 0.2747330697 8.949706e-02 0.291454085
## [19,] 1.788707e-01 0.1975491897 0.2275686604 6.550340e-02 0.285713606
## [20,] 1.839325e-01 0.1510915884 0.2095361947 6.289883e-02 0.279999958
## [21,] 1.980857e-01 0.1625101107 0.2054928152 6.390431e-02 0.286731888
## [22,] 1.996689e-01 0.1485741974 0.1494574764 6.960404e-02 0.295504422
## [23,] 2.199338e-01 0.1479403732 0.1660205237 7.357039e-02 0.223646845
## [24,] 2.464719e-01 0.0996107635 0.0870832602 6.885532e-02 0.131517513
## [25,] 1.304577e-01 0.0868030182 0.0819470672 6.732777e-02 0.109167396
## [26,] 1.176393e-01 0.0673165908 0.0935772481 6.984392e-02 0.118349785
## [27,] 6.070919e-02 0.0634594331 0.0793909692 5.676121e-02 0.071462445
## [28,] 6.819827e-02 0.0659431956 0.0817375104 4.727081e-02 0.058073843
## [29,] 3.141591e-02 0.0619295012 0.0688695896 4.678103e-02 0.051862143
## [30,] 3.316685e-02 0.0308293328 0.0042594365 5.123379e-02 0.051168145
## [31,] 1.915925e-02 0.0384285120 0.0049070581 1.224941e-02 0.001068582
## [32,] 2.828663e-02 0.0426774958 0.0003110435 1.748096e-02 0.001585175
## [33,] 4.196174e-05 0.0007389874 0.0004989858 9.571542e-05 0.002075730
## [34,] 0.000000e+00 0.0000000000 0.0000000000 0.000000e+00 0.000000000
```

```
##
## $MDI
##    avg.sq
## 0.2765663
```

Ok, now that we've fit the models to a given tree, we want to fit the models to lots of trees of different ages, shapes, etc. Let's read in a file I've made of trees from the whole span of dating analyses.

```
tree.span <- read.tree("/Users/Ian/Google.Drive/ANU Herp Work/Macropod_Dating/FossilUncertainty/Tree_Spa
tree.span
```

```
## 79 phylogenetic trees
```

Now we'll run a loop across all of these trees, to fit the models to each one. It may take a little while.

```
# MAKE THIS EVAL=TRUE IF YOU WANT TO DO THIS BIT FOR REAL
all.aics <- NULL; all.results <- NULL
for (k in 1:length(tree.span)){
  beginning <- Sys.time()
  int.results <- NULL

  # Fit a number of models to the data (ENV, GRASS, BM, EB, Trend, Drift)
  ENVexp <- best.smoothing(tree.span[[k]], macro.means, time.data=InfTemp, degrees=c(10,20,30,40,50), mo
  ENVlin <- best.smoothing(tree.span[[k]], macro.means, time.data=InfTemp, degrees=c(10,20,30,40,50), mo

  GRASSexp <- best.smoothing(tree.span[[k]], macro.means, time.data=testo, degrees=c(30,50), model="Envl
  #GRASSlin <- best.smoothing(trim.tree, macro.means, time.data=testo, degrees=c(30,40,50), model="EnvL

  FLUXexp <- best.smoothing(tree.span[[k]], macro.means, time.data=flux.data, degrees=c(10,20,30,40,50)
  FLUXlin <- best.smoothing(tree.span[[k]], macro.means, time.data=flux.data, degrees=c(10,20,30,40,50)

  BM_res    <- fitContinuous(tree.span[[k]], species.means, model="BM"); int.results[["BM"]] <- BM_res
  trend_res <- fitContinuous(tree.span[[k]], species.means, model="trend"); int.results[["Trend"]] <- tr
  EB_res    <- fitContinuous(tree.span[[k]], species.means, model="EB"); int.results[["EB"]] <- EB_res

  curr_tree_FIT <- c(ENVexp$best.result$aicc, ENVlin$best.result$aicc,
                     GRASSexp$best.result$aicc, FLUXexp$best.result$aicc, FLUXlin$best.result$aicc, #GRA
                     BM_res$opt$aicc, trend_res$opt$aicc, EB_res$opt$aicc); names(curr_tree_FIT) <- c("EN
  curr.aic <- as.data.frame(as.vector(aic.w(curr_tree_FIT)));
        curr.aic$model <- names(curr_tree_FIT); colnames(curr.aic) <- c("aiccw", "model");
            curr.aic$age <- round(max(nodeHeights(tree.span[[k]])), 3)
                curr.aic$tree <- k
  all.results[[k]] <- int.results

  curr.aic$model.type <- c("ENV", "ENV", "GRASS", "FLUX", "FLUX", "BM", "Trend", "EB")

  # ENVexp <- ENVexp$best.result;  ENVlin <- ENVlin$best.result; GRASSexp <- GRASSexp$best.result; FLUX
  # curr.aic[which(curr.aic$aiccw == max(curr.aic$aiccw)),"model"]

  all.aics <- rbind.data.frame(all.aics, curr.aic);

  end <- Sys.time()
  duration <- format(end-beginning)
  print(paste("Computation time :", duration))
}
```

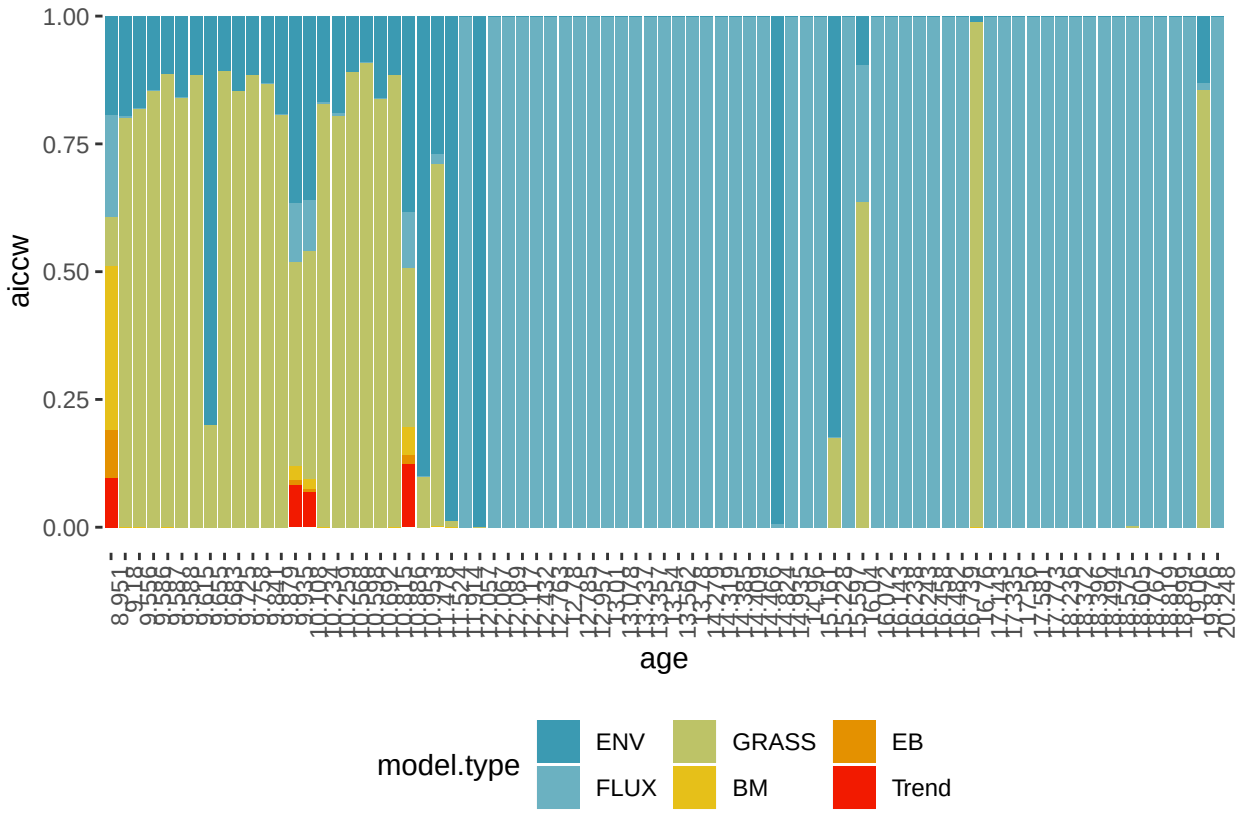
Save the file externally:

```
# MAKE THIS EVAL=TRUE IF YOU WANT TO DO THIS BIT FOR REAL
all.aics$age <- factor(all.aics$age, levels=c("Min_Ages", "Mean_Ages", "Max_Ages"))
all.aics$model.type <- factor(all.aics$model.type, levels=c("ENV", "FLUX", "GRASS", "BM", "EB", "Trend"
#saveRDS(all.aics, file="/Users/Ian/Desktop/Macropod_Dating/Model_Fitting_AICCs.RDS")
```

Or skip the work and read in the file instead:

```
all.aics <- readRDS("/Users/Ian/Google.Drive/ANU Herp Work/Macropod_Dating/Model_Fitting.RDS")
all.aics$age <- as.factor(all.aics$age)
```

```
(ggplot(all.aics)
  + geom_bar(aes(y=aiccw, x=age, fill=model.type), stat="identity")
  + theme(axis.text.x=element_text(angle=90, hjust=1), panel.background=element_blank(), legend.positio
  + scale_fill_manual( values=wes_palette("Zissou1", 6, "continuous")))
```



Exercise to compare node ages across the different tree dating schemes

Make a quick function to get the DEPTH of a node (from present), instead of the HEIGHT (from root)

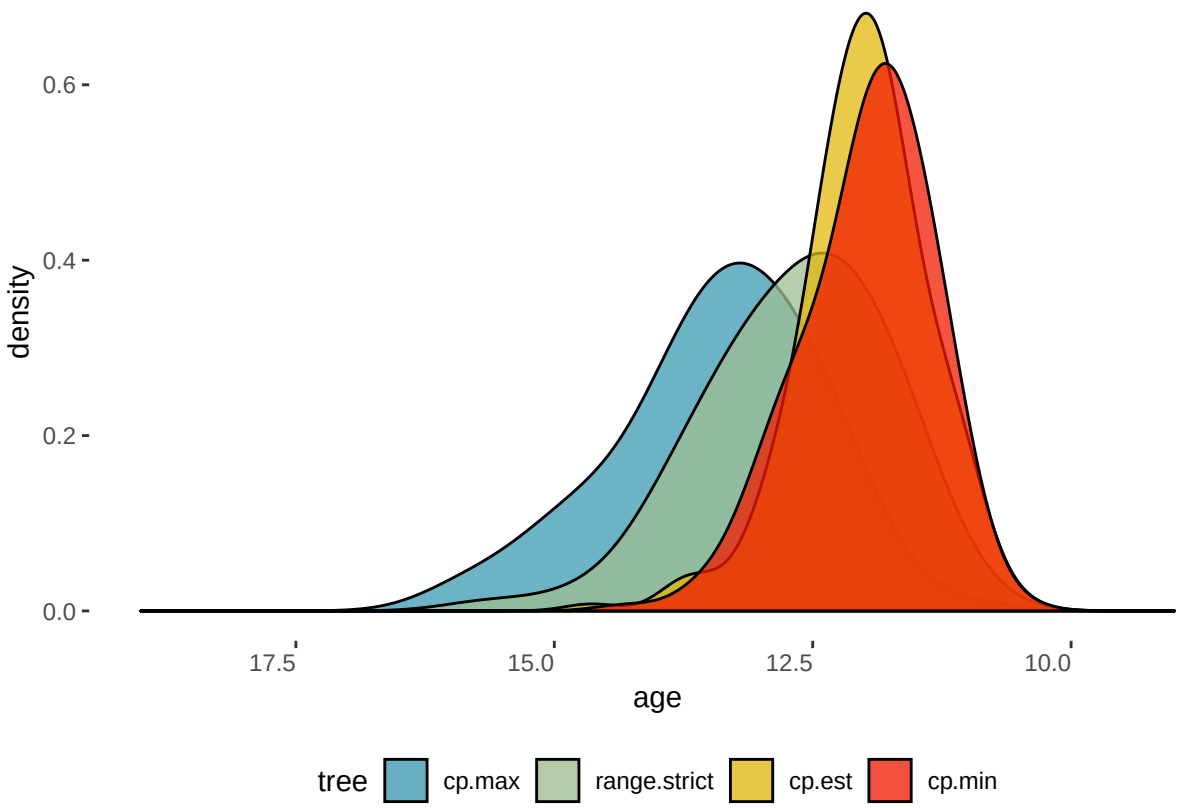
```
MRCA.depth <- function(phy){max(nodeHeights(phy)) - findMRCA(phy, tips=c("Setonix_brachyurus", "Wallabi
```

Prepare trees for comparison of ages

```
age.cp.min  <- read.nexus("/Users/Ian/Google.Drive/ANU Herp Work/Macropod_Dating/Operators/Macro_CPMinA
cp.min <- as.data.frame(unlist(lapply(age.cp.min, MRCA.depth))); cp.min$tree <- "cp.min"; colnames(cp.m
```

```
age.cp.mean <- read.nexus("/Users/Ian/Google.Drive/ANU Herp Work/Macropod_Dating/Operators/Macro_CPEstAg
cp.est <- as.data.frame(unlist(lapply(age.cp.mean, MRCA.depth))); cp.est$tree <- "cp.est"; colnames(cp.e

age.cp.max <- read.nexus("/Users/Ian/Google.Drive/ANU Herp Work/Macropod_Dating/Operators/Macro_CPMaxAge
cp.max <- as.data.frame(unlist(lapply(age.cp.max, MRCA.depth))); cp.max$tree <- "cp.max"; colnames(cp.ma

age.range.strict <- read.nexus("/Users/Ian/Google.Drive/ANU Herp Work/Macropod_Dating/Operators/Macro_Ag
range.strict <- as.data.frame(unlist(lapply(age.range.strict, MRCA.depth))); range.strict$tree <- "range

age.all <- rbind(cp.min, cp.est, cp.max, range.strict)
age.all$tree <- factor(age.all$tree, levels=c("cp.max", "range.strict", "cp.est", "cp.min"))
```

```
(ggplot(age.all, aes(x=age, fill=tree))
  + geom_density(alpha=0.75, adjust=1.5)
  + theme(axis.text.x=element_text(angle=0, hjust=1), panel.background=element_blank(), legend.position=
  + scale_fill_manual(values=wes_palette("Zissou1", type="continuous", 4))
  + scale_x_reverse(lim=c(19,9)))
```



Getting Bayes Factors for Fossil Taxa

Investigating Fossil Taxa as putative Sampled Ancestors or Terminals

```
prior.trees <- read.nexus("/Users/Ian/Google.Drive/ANU Herp Work/Macropod_Dating/FossilUncertainty/Prior
post.trees <- read.nexus("/Users/Ian/Google.Drive/ANU Herp Work/Macropod_Dating/FossilUncertainty/Macro_
```

Choose which tips you want information for:

```
fossil_taxa <- c("Baringa_nelsonensis", "Bohra_illuminata", "Congruus_congruus",
                 "Dorcopsoides_fossilis", "Ganguroo_bilamina","Hadronomas_puckridgi",
                 "Kurrabi_mahoneyi","Macropus_pavana","Ngamaroo_archeri",
                 "Bulungamaya_delicata","Prionotemnus_palankarinnicus",
                 "Procoptodon_goliah","Protemnodon_anak","Simosthenurus_occidentalis",
                 "Sthenurus_andersoni","Troposodon_minor","Wanburoo_hilarus")
```

Get the node numbers of the tips

```
nodes <- sapply(fossil_taxa,function(x,y) which(y==x),y=tree$tip.label)
```

Then get the edge lengths for those nodes

```
edge.lengths <- setNames(tree$edge.length[sapply(nodes,
                                                 function(x,y) which(y==x),y=tree$edge[,2])],names(nodes)
```

The faster way is to make a function to do this:

```
get_terminal_branchlengths <- function(phy, tipnames){
  ## Get the node numbers of the tips
  nodes <- sapply(tipnames,function(x,y) which(y==x),y=phy$tip.label)
  ## Then get the edge lengths for those nodes
  edge.lengths <- setNames(phy$edge.length[sapply(nodes,
                                                  function(x,y) which(y==x),y=phy$edge[,2])],names(nod
  return(edge.lengths)
}
```

Now that we've got the tips and branch lengths, we can compare the posterior to the prior

```
BFSA <- function(prior.phy, posterior.phy, tips){
  post <- lapply(posterior.phy, get_terminal_branchlengths, tipnames=tips); names(post) <- NULL; post <-
  prior <- lapply(prior.phy,    get_terminal_branchlengths, tipnames=tips); names(prior)<- NULL; prior <

  BFs <- NULL
  for (j in 1:length(tips)){
    curr.tip <- subset(post, names(post)==tips[j]);
    probSA <- sum(curr.tip<=0); probTIP <- length(curr.tip)-probSA;

    curr.tip <- subset(prior, names(prior)==tips[j]);
    priorSA <- sum(curr.tip<=0); priorTIP <- length(curr.tip)-priorSA;

    curr.BF <- log((probSA * priorTIP) / (probTIP * priorSA))
    if(is.na(curr.BF)){curr.BF <- 0}

    #curr.BF <- log(probSA/(length(curr.tip)-probSA))
    names(curr.BF) <- tips[j]; curr.BF <- round(curr.BF, 2)
    BFs <- append(BFs, curr.BF)
  }
  return(BFs)
}
```

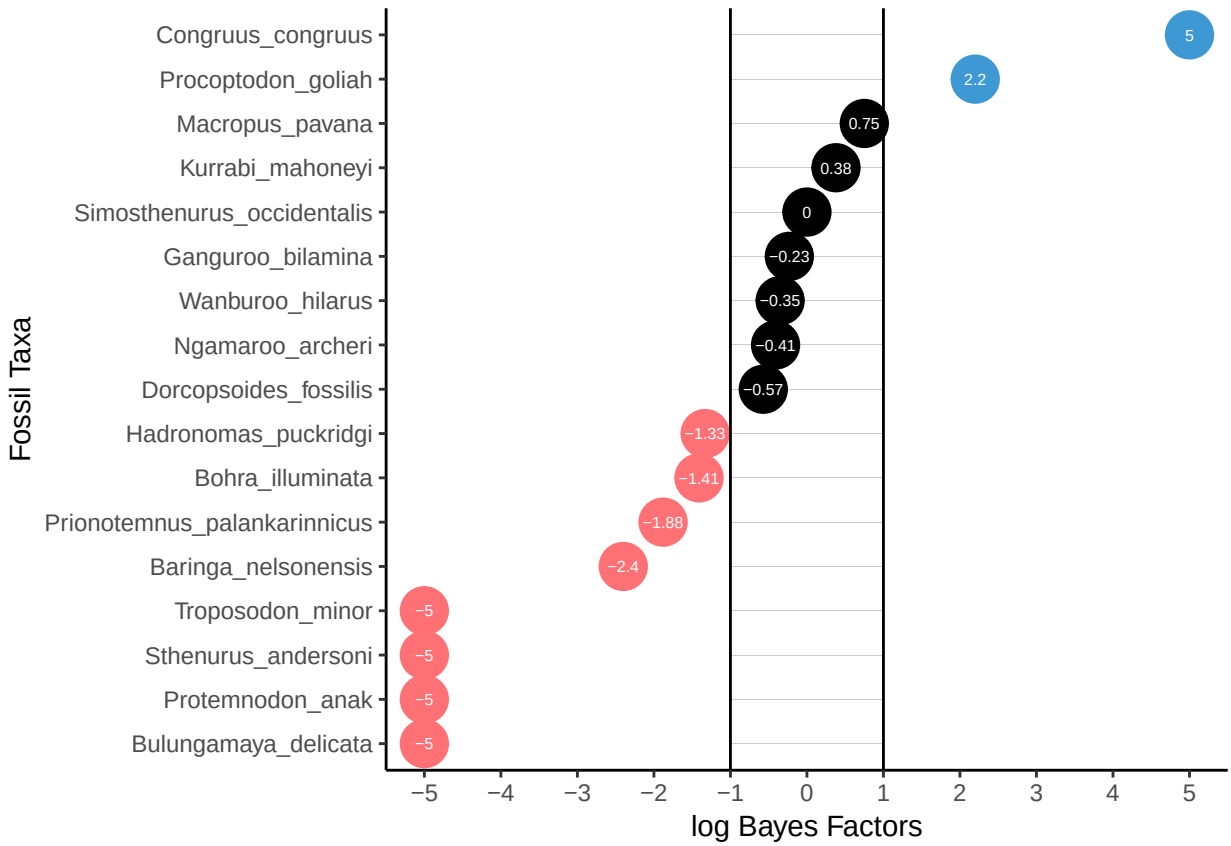
Orient the data appropriately

```
macro_BFs <- BFSA(prior.trees, post.trees, tips=fossil_taxa)

macro_BFs <- as.data.frame(macro_BFs) # make the vector a data frame
macro_BFs[which(macro_BFs$macro_BFs > 5),] <- 5 # change any really big (INF) numbers to 5
```

```r
macro_BFs[which(macro_BFs$macro_BFs < -5),] <- -5 # change any really small (-INF) numbers to -5

macro_BFs$taxa <- rownames(macro_BFs); # create column with the taxon names
macro_BFs <- macro_BFs[order(macro_BFs$macro_BFs),] # reorder by BF values
# set colors for plotting
macro_BFs$color <- "black";
macro_BFs[which(macro_BFs$macro_BFs > 1),]$color <- "#3d98d3"
macro_BFs[which(macro_BFs$macro_BFs < -1),]$color <- "#FF7175"

macro_BFs$taxa <- factor(macro_BFs$taxa, levels=c(macro_BFs$taxa)) # set factors for plotting (NOT NECE
```

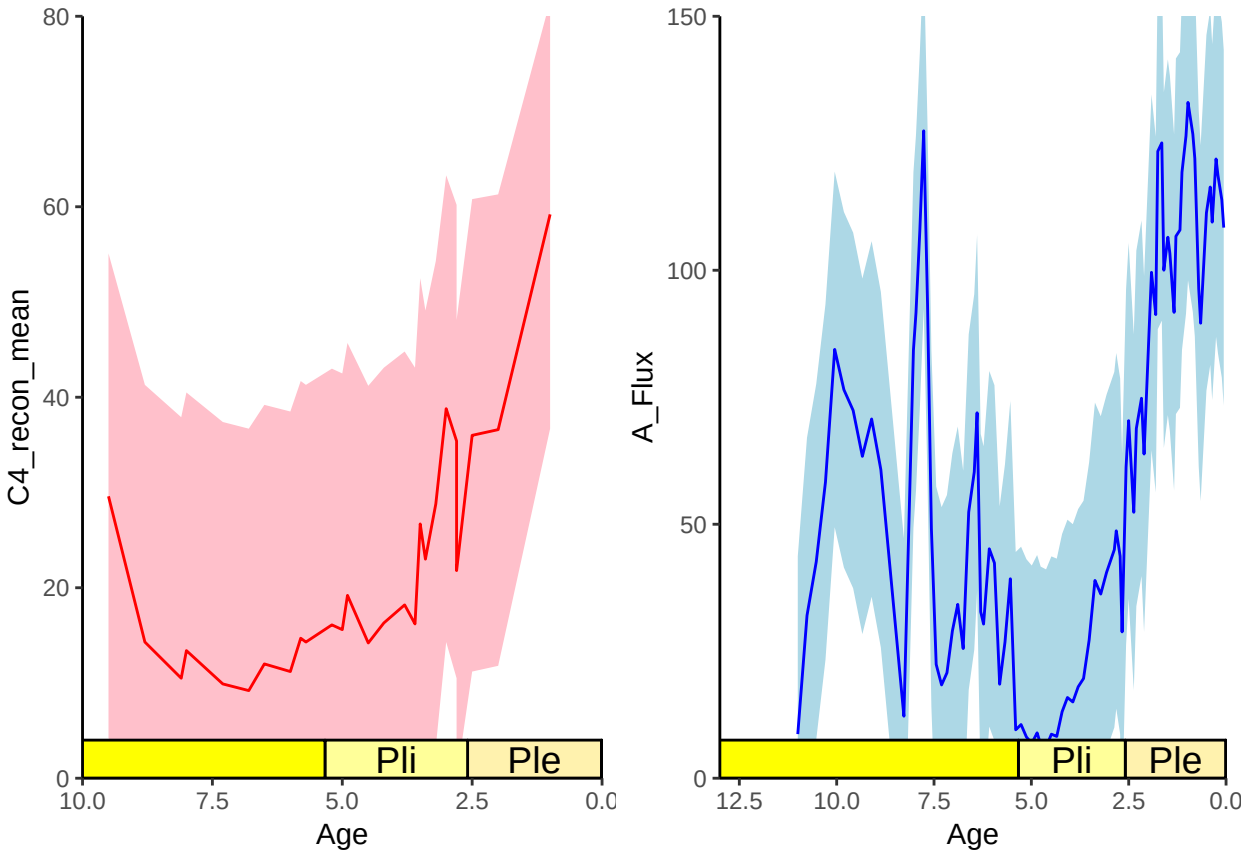
Then plot the data

```r
ggplot(macro_BFs, aes(x=taxa, y=macro_BFs, label=macro_BFs)) +
  geom_ribbon(ymin=-1, ymax=+1) +
  geom_point(stat='identity', size=8, color=macro_BFs$color)  +
  # geom_segment(aes(y = 0,
  #                  x = taxa,
  #                  yend = macro_BFs,
  #                  xend = taxa),
  #               color = macro_BFs$color) +
  geom_text(color="white", size=2) +
  #labs(title="Bayes Factor Support", subtitle="for Fossil Taxa as Sampled Ancestors") +
  #ylim(-5, 5) +
  scale_y_continuous(name="log Bayes Factors", limits=c(-5,5), breaks=c(-5:5)) +
  #theme(panel.background=element_blank()) +
  geom_hline(yintercept=-1) +
  geom_hline(yintercept=1) +
  xlab("Fossil Taxa") +
  #ylab("log Bayes Factors") +
  theme_classic() +
  coord_flip()
```



Plot the C4 and Flux data on a geological time scale

```
library(deeptime); library(gridExtra)

pp <- ggplot(enviro.data, aes(Age)) +
  geom_ribbon(aes(ymin = C4_recon_lower, ymax = C4_recon_upper), fill = "pink") +
  geom_line(aes(y = C4_recon_mean), color="red") + scale_x_reverse() + theme_classic() +
  coord_cartesian(xlim = c(0, 10), ylim = c(0,80), expand = FALSE)

qq <- gggeo_scale(pp, dat="epochs")


rr <- ggplot(flux.data, aes(Age)) +
  geom_ribbon(aes(ymin = A_Flux-35, ymax = A_Flux+35), fill = "light blue") +
  geom_line(aes(y = A_Flux), color="blue") + scale_x_reverse() + theme_classic() +
  coord_cartesian(xlim = c(0, 13), ylim = c(0,150), expand = FALSE)

ss <- gggeo_scale(rr, dat="epochs")

grid.arrange(qq, ss, nrow=1)
```



Let's plot the estimated ages of each fossil taxon

Create a function to pull the ages of each fossil taxon estimated

```
get.fossil.ages <- function(fossil.tips, trees){
  tree.tables <- lapply(trees, print.tree)
  fossil.tables <- lapply(1:length(tree.tables), function(x) {
    subset(tree.tables[[x]], tree.tables[[x]]$label %in% fossil.tips)
  })
  fossil.ages <- lapply(1:length(fossil.tables), function(x) {
    select(fossil.tables[[x]], label, time_bp)
  })
  final <- bind_rows(fossil.ages)
}
```

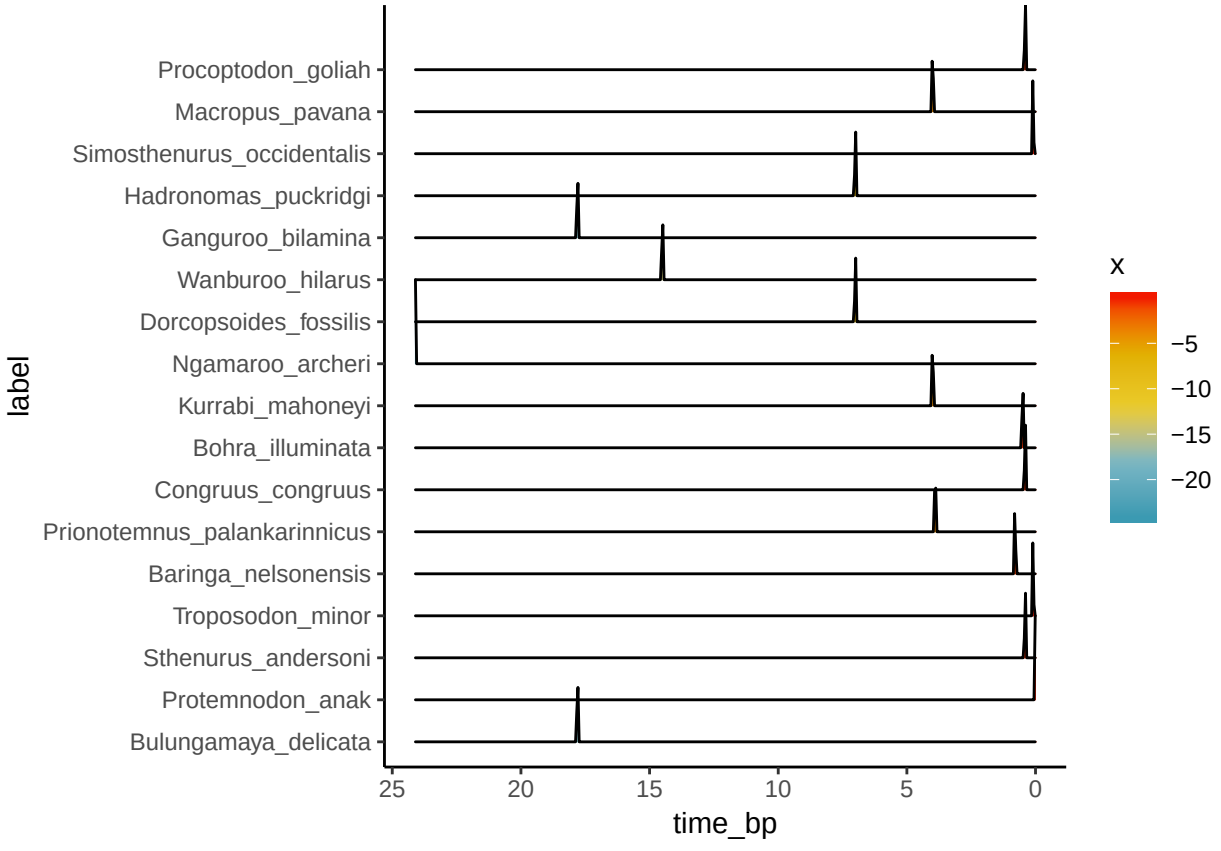
Need to create a function called "print.tree" that I borrowed some code from biogeoBEARS

```
library(BioGeoBEARS)
print.tree <- function (t, printflag = TRUE, relabel_nodes = FALSE, time_bp_digits = 7,
          add_root_edge = TRUE, get_tipnames = FALSE, fossils_older_than = 0.6)
{
  if ("node.label" %in% attributes(t)$names == FALSE) {
    rootnum = get_nodenum_structural_root(t)
    new_node_labels = paste("inNode", rootnum:(rootnum +
                                                t$Nnode - 1), sep = "")
    t$node.label = new_node_labels
```

```
}
if (relabel_nodes == TRUE) {
  rootnum = get_nodenum_structural_root(t)
  new_node_labels = paste("inNode", rootnum:(rootnum +
                                              t$Nnode - 1), sep = "")
  t$node.label = new_node_labels
}
labels = c(t$tip.label, t$node.label)
ordered_nodenames = get_nodenums(t)
node.types1 = rep("tip", length(t$tip.label))
node.types2 = rep("internal", length(t$node.label))
node.types2[1] = "root"
node.types = c(node.types1, node.types2)
parent_branches = get_indices_where_list1_occurs_in_list2(ordered_nodenames,
                                                          t$edge[, 2])
brlen_to_parent = t$edge.length[parent_branches]
parent_nodes = t$edge[, 1][parent_branches]
daughter_nodes = lapply(ordered_nodenames, get_daughters,
                        t)
root_nodenum = get_nodenum_structural_root(t)
tmpstr = paste("prt(t): root=", root_nodenum, "\n", sep = "")
#prflag(tmpstr, printflag = printflag)
levels_for_nodes = unlist(lapply(ordered_nodenames, get_level,
                                 t))
hts_at_end_of_branches_aka_at_nodes = t$edge.length
hts_at_end_of_branches_aka_at_nodes = get_all_node_ages(t)
h = hts_at_end_of_branches_aka_at_nodes
times_before_present = get_max_height_tree(t) - h
edge_ages = t$edge
edge_ages[, 1] = h[t$edge[, 1]]
edge_ages[, 2] = h[t$edge[, 2]]
edge_times_bp = t$edge
edge_times_bp[, 1] = times_before_present[t$edge[, 1]]
edge_times_bp[, 2] = times_before_present[t$edge[, 2]]
if (get_tipnames == TRUE) {
  list_of_clade_members_lists = rep(list(NA), length(ordered_nodenames))
  list_of_clade_members_lists[1:length(t$tip.label)] = t$tip.label
  list_of_clade_members_lists
  nontip_nodenums = (length(t$tip.label) + 1):length(ordered_nodenames)
  if (length(nontip_nodenums) > 1) {
    nontip_nodenames = ordered_nodenames[nontip_nodenums]
    nontip_cladelists = sapply(X = nontip_nodenames,
                               FUN = get_all_daughter_tips_of_a_node, t = t)
    nontip_cladelists
    nontip_cladelists_alphabetical = sapply(X = nontip_cladelists,
                                            FUN = sort)
    nontip_cladelists_alphabetical
    nontip_cladelists_alphabetical_str = sapply(X = nontip_cladelists_alphabetical,
                                                FUN = paste, collapse = ",")
    nontip_cladelists_alphabetical_str
    list_of_clade_members_lists[nontip_nodenums] = nontip_cladelists_alphabetical_str
    list_of_clade_members_lists
  }
```

```
    else {
      nontip_nodenames = ordered_nodenames[nontip_nodenums]
      nontip_cladelists = sapply(X = nontip_nodenames,
                                 FUN = get_all_daughter_tips_of_a_node, t = t)
      nontip_cladewords = unlist(sapply(X = nontip_cladelists,
                                        FUN = strsplit, split = ","))
      nontip_cladelists_alphabetical = sort(nontip_cladewords)
      nontip_cladelists_alphabetical
      nontip_cladelists_alphabetical_str = paste(nontip_cladelists_alphabetical,
                                                 collapse = ",", sep = "")
      nontip_cladelists_alphabetical_str
      list_of_clade_members_lists[nontip_nodenums] = nontip_cladelists_alphabetical_str
      list_of_clade_members_lists
    }
  }
  fossils = times_before_present > fossils_older_than
  tmpnodenums = (length(t$tip.label) + 1):(length(t$tip.label) +
                                            t$Nnode)
  fossils[tmpnodenums] = NA
  if (get_tipnames == FALSE) {
    tmpdtf = cbind(1:length(ordered_nodenames), ordered_nodenames,
                   levels_for_nodes, node.types, parent_branches, brlen_to_parent,
                   parent_nodes, daughter_nodes, h, round(times_before_present,
                                                          digits = time_bp_digits), fossils, labels)
    dtf = as.data.frame(tmpdtf, row.names = NULL)
    names(dtf) = c("node", "ord_ndname", "node_lvl", "node.type",
                   "parent_br", "edge.length", "ancestor", "daughter_nds",
                   "node_ht", "time_bp", "fossils", "label")
    dtf = unlist_dtf_cols(dtf, printflag = FALSE)
  }
  else {
    tmpdtf = cbind(1:length(ordered_nodenames), ordered_nodenames,
                   levels_for_nodes, node.types, parent_branches, brlen_to_parent,
                   parent_nodes, daughter_nodes, h, round(times_before_present,
                                                          digits = time_bp_digits), fossils, labels, lis
    dtf = as.data.frame(tmpdtf, row.names = NULL)
    names(dtf) = c("node", "ord_ndname", "node_lvl", "node.type",
                   "parent_br", "edge.length", "ancestor", "daughter_nds",
                   "node_ht", "time_bp", "fossils", "label", "tipnames")
    dtf = unlist_dtf_cols(dtf, printflag = FALSE)
  }
  if ((add_root_edge == TRUE) && (!is.null(t$root.edge))) {
    root_row_TF = dtf$node.type == "root"
    root_edge_length = t$root.edge
    dtf$edge.length[root_row_TF] = root_edge_length
    dtf$node_ht = dtf$node_ht + root_edge_length
  }
  #prflag(dtf, printflag = printflag)
  return(dtf)
}

test <- print.tree(post.trees[[1]])
```

Now pull out the info on those fossils

```r
my.test <- get.fossil.ages(fossil.tips = fossil_taxa, trees = post.trees)
my.test$label <- factor(my.test$label, levels=c("Bulungamaya_delicata",
                                                "Protemnodon_anak",
                                                "Sthenurus_andersoni",
                                                "Troposodon_minor",
                                                "Baringa_nelsonensis",
                                                "Prionotemnus_palankarinnicus",
                                                "Congruus_congruus",
                                                "Bohra_illuminata",
                                                "Kurrabi_mahoneyi",
                                                "Ngamaroo_archeri",
                                                "Dorcopsoides_fossilis",
                                                "Wanburoo_hilarus",
                                                "Ganguroo_bilamina",
                                                "Hadronomas_puckridgi",
                                                "Simosthenurus_occidentalis",
                                                "Macropus_pavana",
                                                "Procoptodon_goliah"))

(ggplot(my.test, aes(x=time_bp, y=label, fill=..x..))
  + scale_fill_gradientn(colours=wes_palette("Zissou1"))
  + geom_density_ridges_gradient(scale=2)
  + scale_x_reverse()
  + theme_classic())
```

```
## Picking joint bandwidth of 2.28e-07
```