# bayesNMF Advanced Options

```
library(bayesNMF)
library(ggplot2)

Warning: package 'ggplot2' was built under R version 4.3.2

library(pryr)

data <- readRDS(system.file("extdata", "example_data.rds", package = "bayesNMF"))
dim(data$M)

[1] 96 64

reference <- get_cosmic()</pre>
```

### Auto-ordering of reference signature rows

Ideally, the reference signature rows are in the same order as the data rows. However, if the reference signature rows are not in the same order as the data rows, and both data and reference have row names, then the reference signature rows will be reordered to match the data rows. If the data and reference have different row names, then the reference signature rows will not be reordered and a warning will be issued.

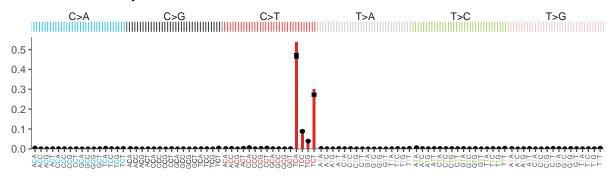
```
sampler_learn_rank <- readRDS("../examples/learn_rank/sampler.rds")
all(rownames(sampler_learn_rank$data) ==rownames(reference))</pre>
```

[1] TRUE

For reference, here is the signature plot with the reference in the original order.

```
plot_sig(sampler_learn_rank, sig = 1, reference_P = reference)
```

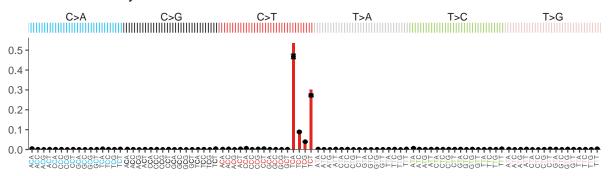
# Assigned signature is SBS2 Cosine similarity = 0.999



Because there are row names on both the data and reference, even if the reference is not in the same order as the data, it will be reordered to match the data. Here, the signature plot looks exactly the same because the reference was reoredered appropriately.

```
set.seed(321)
reference_reoredered <- reference[sample(rownames(reference)), ]
plot_sig(sampler_learn_rank, sig = 1, reference_P = reference_reoredered)</pre>
```

## Assigned signature is SBS2 Cosine similarity = 0.999

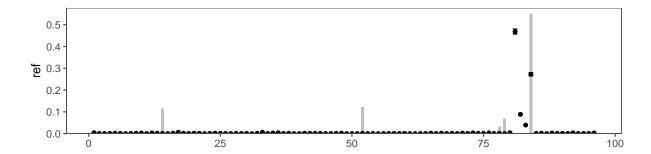


If the data does not have row names, then the reference will not be reordered and a warning will be issued. In this case, we see the signature was aligned poorly because the reference is no longer applicable to the data.

```
set.seed(123)
reference_reoredered_nonames <- reference[sample(rownames(reference)), ]
rownames(reference_reoredered_nonames) <- NULL
plot_sig(sampler_learn_rank, sig = 1, reference_P = reference_reoredered_nonames)</pre>
```

Warning in assign\_signatures\_ensemble\_(self, reference\_P, idxs, credible\_interval): Row names of self\$data and reference\_P do not overlap. Reference matrix will not be reordered.

# Assigned signature is SBS17b Cosine similarity = 0.47



# **Convergence Specifications**

Unlike standard MCMC problems, we cannot use multiple chains to determine convergence because different chains can have different numbers of latent factors which we would be unable to align. We instead determine convergence through an approach rooted in machine learning. The <code>convergence\_control</code> parameter determines the specifics of this approach. These parameters can be adjusted by the user, but the default values are noted below.

```
convergence_control = new_convergence_control(
    MAP_over = 1000,
    MAP_every = 100,
    tol = 0.001,
    Ninarow_nochange = 5,
    Ninarow_nobest = 10,
    miniters = 1000,
    maxiters = 5000,
    minA = 0,
    metric = "logposterior"
)
```

We pre-determine that the MAP estimate will be the average over MAP\_over samples. Starting at iteration MAP\_over and at every MAP\_every iterations after, we perform a status report: we compute the MAP estimate as if this is the last iteration and record log likelihood, log posterior, RMSE, and KL Divergence. We say the MAP "hasn't changed" if the specified metric has changed by less than 100\*tol% since the previous report. We say the

MCMC has converged when the MAP hasn't changed in Ninarow\_nochange reports (i.e., Ninarow\_nochange\*MAP\_every iterations) OR if it hasn't improved in Ninarow\_nobest reports (i.e., Ninarow\_nobest\*MAP\_every iterations) OR if the iteration has reached maxiters. Convergence also requires that the iteration is at least miniters and that the MAP estimate for A appears at least minA times.

A specified convergence control can be passed to bayesNMF with the convergence\_control parameter:

```
sampler_learn_rank <- bayesNMF(
    data$M, 1:10,
    convergence_control = convergence_control,
    output_dir = "../examples/learn_rank",
    save_all_samples = TRUE,
    overwrite = TRUE
)</pre>
```

```
sampler_learn_rank <- readRDS("../examples/learn_rank/sampler.rds")</pre>
```

## Setting Hyperparameters and Initial Values

The hyperprior\_params, init\_prior\_params, and init\_params parameters can be used to set the hyperparameters, initial prior parameters, and initial parameters for the model.

The parameters that can be initialized are P and E. If the rank is learning, then A and R can also be initialized. If the likelihood is Normal, then  $\sigma^2$  can also be initialized. If the likelihood is Poisson, then Z can also be initialized. If parameters are not provided, they will be initialized from their prior distributions.

```
N = 10

init_params = list(
    R = N,
    A = matrix(1, nrow = 1, ncol = N),
    P = matrix(1, nrow = nrow(data$M), ncol = N),
    E = matrix(1, nrow = N, ncol = ncol(data$M))
)

# this is a short convergence control for testing
# this is not recommended for actual analysis
short_convergence_control <-new_convergence_control(
    MAP_over = 100,</pre>
```

```
MAP_every = 20,

maxiters = 1000,

tol = 0.01 # 1% change
```

Warning in new\_convergence\_control(MAP\_over = 100, MAP\_every = 20, maxiters = 1000, : miniters >= maxiters, setting miniters to 0.

The prior and hyperprior parameters that can be initialized depend on the prior.

#### **Truncated Normal Prior**

The priors are:

$$\begin{split} P_{kn} \sim \text{TruncatedNormal}(\mu_{kn}^p, (\sigma_{kn}^p)^2, 0, \infty) \\ E_{ng} \sim \text{TruncatedNormal}(\mu_{ng}^e, (\sigma_{ng}^e)^2, 0, \infty) \end{split}$$

For Truncated Normal prior, the prior parameters are matrices  $\mu^p$  and  $(\sigma^p)^2$  of dimensions  $K \times N$  and matrices  $\mu^e$  and  $(\sigma^e)^2$  of dimensions  $N \times G$ . If these matrices are not provided, they will be initialized from their hyperprior distributions.

The hyperpriors are:

$$\begin{split} \mu_{kn}^p &\sim \text{Normal}(m_p, s_p) \\ (\sigma_{kn}^p)^2 &\sim \text{InvGamma}(a_p, b_p) \\ \mu_{ng}^e &\sim \text{Normal}(m_e, s_e) \\ (\sigma_{ng}^e)^2 &\sim \text{InvGamma}(a_e, b_e) \end{split}$$

For Truncated Normal prior, the hyperprior parameters are  $m_p,\ s_p,\ a_p,\ b_p,\ m_e,\ s_e,\ a_e,$  and  $b_e.$ 

```
truncnorm_init_prior_params = list(
    Mu_p = matrix(0, nrow = nrow(data$M), ncol = N),
    Sigmasq_p = matrix(1, nrow = nrow(data$M), ncol = N),
    Mu_e = matrix(0, nrow = N, ncol = ncol(data$M)),
    Sigmasq_e = matrix(1, nrow = N, ncol = ncol(data$M))
)

# these are the default values
truncnorm_hyperprior_params = list(
    m_p = 0, s_p = sqrt(mean(data$M)/N),
    a_p = N + 1, b_p = sqrt(N),
```

```
m_e = 0, s_e = sqrt(mean(data$M)/N),
    a_e = N + 1, b_e = sqrt(N)
sampler_learn_rank_PT_init <- bayesNMF(</pre>
    data$M, 1:10,
    hyperprior_params = truncnorm_hyperprior_params,
    init_prior_params = truncnorm_init_prior_params,
    init_params = init_params,
    output_dir = "../examples/learn_rank_PT_init",
    save_all_samples = TRUE,
    overwrite = TRUE,
    convergence_control = short_convergence_control # testing only, NOT RECOMMENDED
sampler_learn_rank_PT_init <- readRDS(</pre>
    "../examples/learn_rank_PT_init/sampler.rds"
Here we can check that initial values were set correctly.
all(sampler_learn_rank_PT_init$samples$P[[1]] == init_params$P)
[1] TRUE
all(sampler_learn_rank_PT_init$samples$Mu_p[[1]] == truncnorm_init_prior_params$Mu_p)
[1] TRUE
sampler_learn_rank_PT_init$hyperprior_params$m_p == truncnorm_hyperprior_params$m_p
[1] TRUE
Exponential Prior
The priors are:
                                P_{kn} \sim \text{Exponential}(\lambda_{kn}^p)
                                E_{nq} \sim \text{Exponential}(\lambda_{nq}^e)
```

For Exponential prior, the prior parameters are matrices  $\lambda^p$  and  $\lambda^e$  of dimensions  $K \times N$  and  $N \times G$ , respectively. If these matrices are not provided, they will be initialized from their hyperprior distributions.

The hyperpriors are:

$$\begin{split} \lambda_{kn}^p &\sim \text{Gamma}(a_p, b_p) \\ \lambda_{ng}^e &\sim \text{Gamma}(a_e, b_e) \end{split}$$

For Exponential prior, the hyperprior parameters are  $a_p$ ,  $b_p$ ,  $a_e$ , and  $b_e$ .

```
exp_init_prior_params = list(
    Lambda_p = matrix(1, nrow = nrow(data$M), ncol = N),
    Lambda_e = matrix(1, nrow = N, ncol = ncol(data$M))
)

# these are the default values
exp_hyperprior_params = list(
    a_p = 10*sqrt(N), b_p = 10*sqrt(mean(data$M)),
    a_e = 10*sqrt(N), b_e = 10*sqrt(mean(data$M)))
)
```

```
sampler_learn_rank_PE_init <- bayesNMF(
    data$M, 1:10,
    prior = "exponential",
    hyperprior_params = exp_hyperprior_params,
    init_prior_params = exp_init_prior_params,
    init_params = init_params,
    output_dir = "../examples/learn_rank_PE_init",
    save_all_samples = TRUE,
    overwrite = TRUE,
    convergence_control = short_convergence_control # testing only, NOT RECOMMENDED)</pre>
```

```
sampler_learn_rank_PE_init <- readRDS(
    "../examples/learn_rank_PE_init/sampler.rds"
)</pre>
```

Check that initial values were set correctly.

```
all(sampler_learn_rank_PE_init$samples$P[[1]] == init_params$P)
```

[1] TRUE

```
all(sampler_learn_rank_PE_init$samples$Mu_p[[1]] == exp_init_prior_params$Lambda_p)
```

[1] TRUE

```
sampler_learn_rank_PE_init$hyperprior_params$a_p == exp_hyperprior_params$a_p
```

[1] TRUE

#### **Gamma Prior**

The priors are:

$$P_{kn} \sim \text{Gamma}(\alpha_{kn}^p, \beta_{kn}^p)$$
  
 $E_{nq} \sim \text{Gamma}(\alpha_{nq}^e, \beta_{nq}^e)$ 

For Gamma prior, the prior parameters are matrices  $\alpha^p$  and  $\beta^p$  of dimensions  $K \times N$  and matrices  $\alpha^e$  and  $\beta^e$  of dimensions  $N \times G$ , respectively. If these matrices are not provided, they will be initialized from their hyperprior distributions.

The hyperpriors are:

```
\begin{split} & \alpha_{kn}^p \sim \operatorname{Gamma}(a_p, b_p) \\ & \beta_{kn}^p \sim \operatorname{Gamma}(c_p, d_p) \\ & \alpha_{ng}^e \sim \operatorname{Gamma}(a_e, b_e) \\ & \beta_{ng}^e \sim \operatorname{Gamma}(c_e, d_e) \end{split}
```

For Gamma prior, the hyperprior parameters are  $a_p$ ,  $b_p$ ,  $c_p$ ,  $d_p$ ,  $a_e$ ,  $b_e$ ,  $c_e$ , and  $d_e$ .

```
gamma_init_prior_params = list(
   Alpha_p = matrix(1, nrow = nrow(data$M), ncol = N),
   Beta_p = matrix(1, nrow = nrow(data$M), ncol = N),
   Alpha_e = matrix(1, nrow = N, ncol = ncol(data$M)),
   Beta_e = matrix(1, nrow = N, ncol = ncol(data$M))
)

# these are the default values
gamma_hyperprior_params = list(
   a_p = 10*sqrt(N), b_p = 10,
   c_p = 10*sqrt(mean(data$M)), d_p = 10,
   a_e = 10*sqrt(N), b_e = 10,
   c_e = 10*sqrt(mean(data$M)), d_e = 10
)
```

```
# this is slow because MH = FALSE
sampler_learn_rank_PG_init <- bayesNMF(</pre>
   data$M, 1:10,
   prior = "gamma",
   hyperprior_params = gamma_hyperprior_params,
   init_prior_params = gamma_init_prior_params,
   init_params = init_params,
   output_dir = "../examples/learn_rank_PG_init",
    save_all_samples = TRUE,
    overwrite = TRUE,
    convergence_control = short_convergence_control # testing only, NOT RECOMMENDED
sampler_learn_rank_PG_init <- readRDS(</pre>
    "../examples/learn rank PG init/sampler.rds"
Check that initial values were set correctly.
all(sampler_learn_rank_PE_init$samples$P[[1]] == init_params$P)
[1] TRUE
all(sampler learn rank PE init$samples$Mu p[[1]] == gamma init prior params$Alpha p)
[1] TRUE
sampler_learn_rank_PE_init$hyperprior_params$a_p == gamma_hyperprior_params$a_p
[1] TRUE
```

### **Reduced compute options**

For reference, here are the total runtime and memory usage of the sampler with the default settings.

```
length(sampler_learn_rank$samples$P)
```

[1] 4100

```
sampler_learn_rank$time$total
```

Time difference of 15.99093 mins

```
pryr::object_size(sampler_learn_rank)
```

217.41 MB

By default, the sampler is saved and trace plot png files are updated periodically. This I/O intensive operation can be reduced by specifying periodic\_save = FALSE to only save the sampler object and trace plot png files at the very end.

```
sampler_learn_rank_faster <- bayesNMF(
    data$M, rank = 1:10,
    output_dir = "../examples/learn_rank_faster",
    periodic_save = FALSE,
    overwrite = TRUE
)</pre>
```

```
sampler_learn_rank_faster <- readRDS("../examples/learn_rank_faster/sampler.rds")
length(sampler_learn_rank_faster$samples$P)</pre>
```

[1] 4100

```
sampler_learn_rank_faster$time$total
```

Time difference of 17.24356 mins

```
pryr::object_size(sampler_learn_rank_faster)
```

217.40 MB

Also by default, all Gibbs samples are saved. However, for large datasets or long runs, this can be memory-intensive. The user can specify save\_all\_samples = FALSE to only save the last 1000 samples for MAP inference.

```
sampler_learn_rank_faster_smaller <- bayesNMF(
    data$M, rank = 1:10,
    output_dir = "../examples/learn_rank_faster_smaller",
    save_all_samples = FALSE,
    periodic_save = FALSE,
    overwrite = TRUE
)</pre>
```

```
sampler_learn_rank_faster_smaller <- readRDS("../examples/learn_rank_faster_smaller/sampler.:
length(sampler_learn_rank_faster_smaller$samples$P)</pre>
```

[1] 1000

```
sampler_learn_rank_faster_smaller$time$total
```

Time difference of 16.4734 mins

```
pryr::object_size(sampler_learn_rank_faster_smaller)
```

53.66 MB

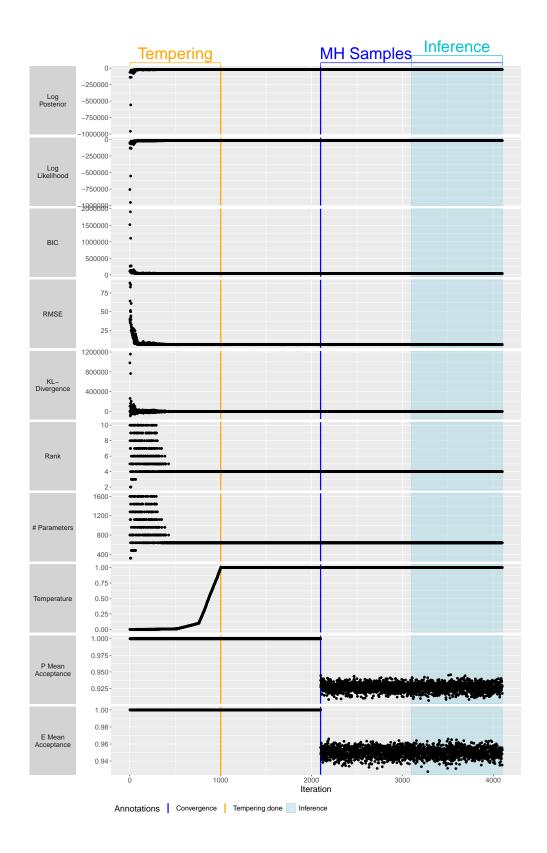
Even with these settings, the log file will still be updated and can be used to monitor progress.

We used both of these settings to run all analyses in the paper to minimize computational time and memory requirements.

### Inference on Custom Indices

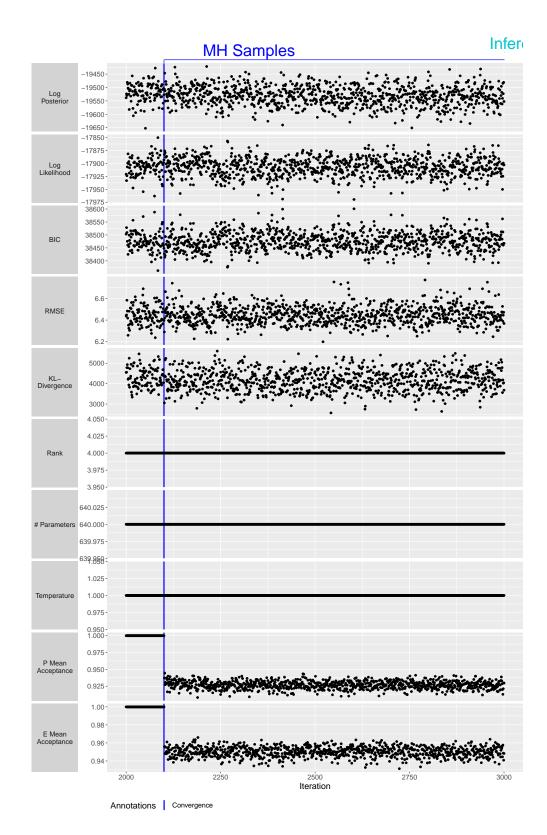
By default, bayesNMF performs inference over the last 1000 iterations of the sampler. However, the user can specify a custom range of indices to perform inference over. The trace\_plot function can be used to plot the trace of the log posterior, log likelihood, RMSE, and KL Divergence, by default over all iterations.

```
trace_plot(sampler_learn_rank)
```



We can zoom in on a specific range of indices to get a better idea of the trace on a custom range of indices.

trace\_plot(sampler\_learn\_rank, idx = 2000:3000)



We can also investigate any label switching in this subset of samples by plotting the label switching plot.

### plot\_label\_switching(sampler\_learn\_rank, idx = 2000:3000)

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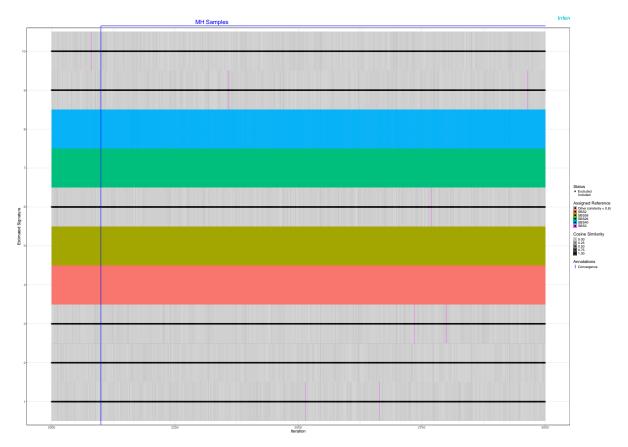
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We can also compute the MAP estimate for this custom range of indices by specifying the end\_iter parameter to the get\_MAP function. By default, the MAP estimate is still computed the nubmer of iterations specified in the convergence control (default 1000). This can also be changed, though, by specifying the n\_samples parameter. Indicating final = TRUE will subset the results to only include the signatures in the final MAP estimate. For example, to compute the MAP estimate using iterations 2901-3000, we can do:

```
sampler_learn_rank$get_MAP(end_iter = 3000, n_samples = 100, final = TRUE)
dim(sampler_learn_rank$MAP$P)
```

#### [1] 96 4

### sampler\_learn\_rank\$MAP\$idx

```
      [1]
      2901
      2902
      2903
      2904
      2905
      2906
      2907
      2908
      2909
      2910
      2911
      2912
      2913
      2914
      2915

      [16]
      2916
      2917
      2918
      2919
      2920
      2921
      2922
      2923
      2924
      2925
      2926
      2927
      2928
      2929
      2930

      [31]
      2931
      2932
      2933
      2934
      2935
      2936
      2937
      2938
      2939
      2940
      2941
      2942
      2943
      2944
      2945

      [46]
      2946
      2947
      2948
      2949
      2950
      2951
      2952
      2953
      2954
      2955
      2956
      2957
      2958
      2959
      2960

      [61]
      2961
      2962
      2963
      2964
      2965
      2966
      2967
      2968
      2969
      2970
      2971
      2972
      2973
      2974
      2975

      [76]
      2976
      2977
      2978
      2999
      2990
      2990
      2990
      2990
      2990
      2990
      2990
      2990
      2990
      2990
      2990
      2
```

After updating the sampler's MAP, any future visualizations or inference will be performed over the custom range of indices.

## sampler\_learn\_rank\$assign\_signatures\_ensemble()

## \$assignments

# A tibble: 4 x 5

	sig_est	sig_ref	MAP_cosine	<pre>lower_cosine</pre>	upper_cosine
	<dbl></dbl>	<chr></chr>	<dbl></dbl>	<dbl></dbl>	<dbl></dbl>
1	1	SBS2	0.999	0.999	1.00
2	2	SBS58	0.999	0.998	0.999
3	3	SBS26	0.999	0.998	0.999
4	4	SBS40	0.967	0.953	0.974

#### \$votes

```
sig_est sig_ref prop_votes
1
        1
             SBS2
                            1
2
        2
            SBS58
                            1
3
        3
            SBS26
                            1
4
        4
            SBS40
                            1
```

### sampler\_learn\_rank\$reference\_comparison\$idx

```
[1] 2901 2902 2903 2904 2905 2906 2907 2908 2909 2910 2911 2912 2913 2914 2915 [16] 2916 2917 2918 2919 2920 2921 2922 2923 2924 2925 2926 2927 2928 2929 2930 [31] 2931 2932 2933 2934 2935 2936 2937 2938 2939 2940 2941 2942 2943 2944 2945 [46] 2946 2947 2948 2949 2950 2951 2952 2953 2954 2955 2956 2957 2958 2959 2960 [61] 2961 2962 2963 2964 2965 2966 2967 2968 2969 2970 2971 2972 2973 2974 2975 [76] 2976 2977 2978 2979 2980 2981 2982 2983 2984 2985 2986 2987 2988 2989 2990 [91] 2991 2992 2993 2994 2995 2996 2997 2998 2999 3000
```

#### sampler\_learn\_rank\$reference\_comparison\$assignments

```
# A tibble: 4 x 5
  sig_est sig_ref MAP_cosine lower_cosine upper_cosine
    <dbl> <chr>
                        <dbl>
                                      <dbl>
                                                    <dbl>
        1 SBS2
                        0.999
                                      0.999
                                                    1.00
1
2
        2 SBS58
                        0.999
                                      0.998
                                                   0.999
3
        3 SBS26
                        0.999
                                      0.998
                                                   0.999
        4 SBS40
                        0.967
                                      0.953
                                                   0.974
```

# Label Switching Diagnostic Without a Reference

If you don't have a reference to compare to, we recommend using the label switching diagnostic plot with respect to the final MAP estimate. This will still show you if the final estimated signatures were originally assigned to different latent indices.

```
plot_label_switching(
    sampler_learn_rank,
    reference_P = sampler_learn_rank$MAP$P
)
```

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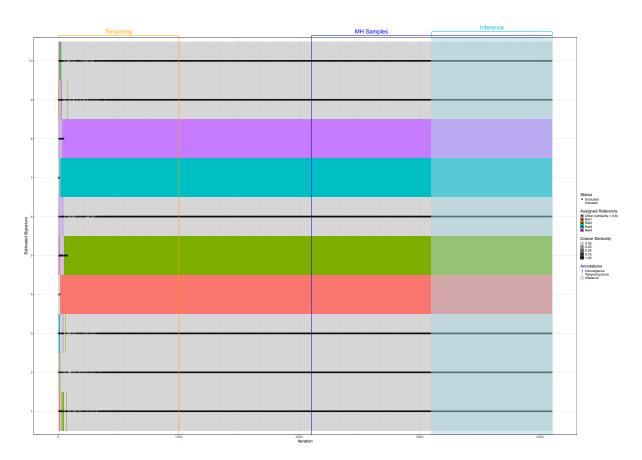
Warning in hungarian\_assignment(P, reference\_P = reference\_P, return\_mat = TRUE, : Row names of estimated\_P are not available. Reference matrix will not be reordered.

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## **Additional Plots**

#### **Signature Plot Variations**

The plot\_sig function can be used to plot a reference mutational signature, an estimated mutational signature with posterior uncertainty as points with error bars, or both. The default reference is COSMIC, and unless otherwise specified, the reference signature chosen to plot is that with highest cosine similarity to the estimated signature.

## Input

• sampler: bayesNMF\_sampler object

- sig: selection of estimated signature. Integer, index of the estimated signature to plot. Can be NULL (default) to plot a reference signature on its own
- ref: selection of reference signature. Integer, column name string, or "best" (default). If "best", the reference signature with highest cosine similarity to the estimated signature will be used, and it's identification will be reported in the title. Can be NULL to plot an estimated signature on its own
- reference\_P: reference signatures to align to in the form of a reference P matrix or the string "cosmic" (default)
- title: optional first line of the title
- cosine: whether to report cosine similarity between estimate and reference in the title (ignored if sig or ref is NULL)

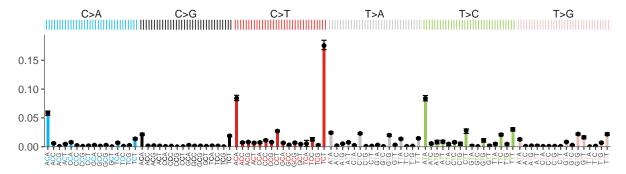
#### Output:

• ggplot2 object

Plotting an estimated signature with the assigned COSMIC signature in the context of the full MAP estimate for P.

```
plot_sig(
    sampler = sampler_learn_rank, sig = 2,
    title = "Estimated signature with the best assigned COSMIC signature"
)
```

Estimated signature with the best assigned COSMIC signature Assigned signature is SBS58 Cosine similarity = 0.999

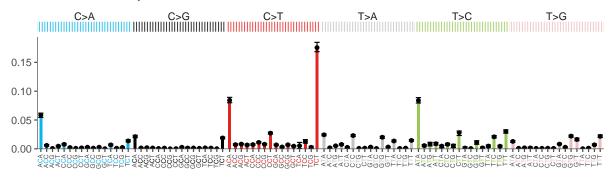


Plotting an estimated signature with the best matched COSMIC signature. This often aligns with the assigned COSMIC signature, but not necessarily, because assignment requires that each reference signature is assigned to exactly one estimated signature.

```
plot_sig(
    sampler = sampler_learn_rank, sig = 2, ref = "best",
    title = "Estimated signature with the best matched COSMIC signature"
)
```

Warning in hungarian\_assignment(sampler\$MAP\$P[, sampler\$MAP\$sig\_idx[sig], : Row names of estimated\_P are not available. Reference matrix will not be reordered.

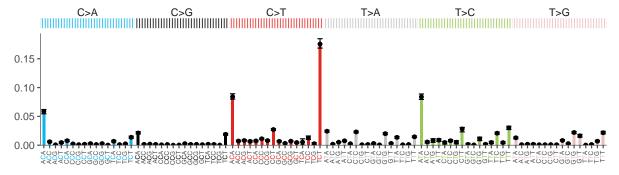
Estimated signature with the best matched COSMIC signature Best match in reference is SBS58 Cosine similarity = 0.999



Plotting an estimated signature with the best matched signature from a custom reference.

```
plot_sig(
    sampler = sampler_learn_rank, sig = 2, reference_P = data$P,
    title = "Estimated signature with the best matched from a custom reference"
)
```

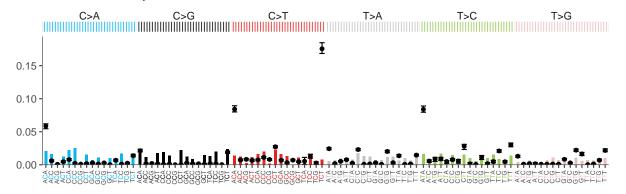
Estimated signature with the best matched from a custom reference Assigned signature is SBS58 Cosine similarity = 0.999



Plot an estimated signature with a specific COSMIC signature (in this case, one that does not align with the estimated signature).

```
plot_sig(
    sampler = sampler_learn_rank, sig = 2, ref = "SBS3",
    title = "Estimated signature with a specific COSMIC signature"
)
```

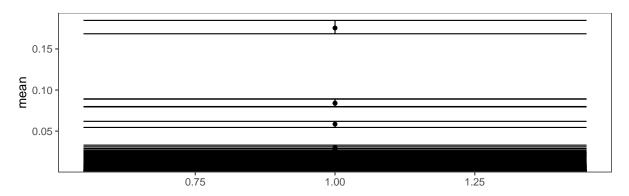
# Estimated signature with a specific COSMIC signature Cosine similarity = 0.442



Plotting an estimated signature alone

```
plot_sig(
    sampler = sampler_learn_rank, sig = 2, reference_P = NULL,
    title = "Estimated signature alone"
)
```

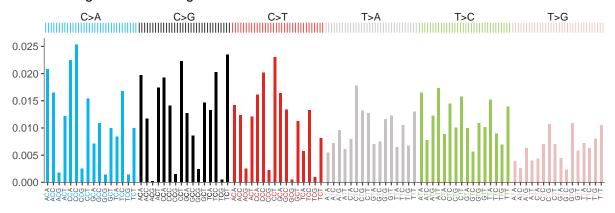
## Estimated signature alone



Plotting a reference signature alone

```
plot_sig(ref = "SBS3", title = "Plotting a reference signature alone")
```

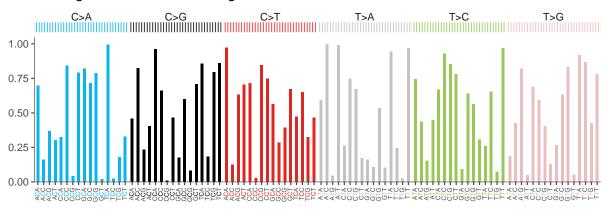
## Plotting a reference signature alone



Plotting a custom reference signature alone

plot\_sig(ref = runif(96), title = "Plotting a custom reference signature alone")

## Plotting a custom reference signature alone



#### Signature Distribution Plot Variations

The plot\_signature\_dist function plots the distribution of mutational counts across signatures for each mutation type across all, a subset, or one subject. This visualizes, for each trinucleotide mutation, how many are present and what signatures they are attributed to.

### Input:

- sampler: bayesNMF\_sampler object
- subjects: vector of subject indices to include in plot, defaults to all subjects
- reference\_P: reference signatures to align to in the form of a reference P matrix or the string "cosmic" (default).
- title: plot title, default "Distribution of Signature Allocation"

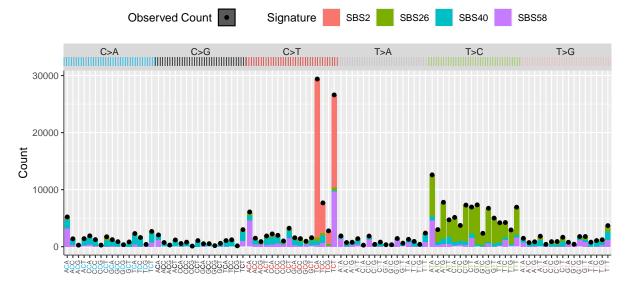
## Output:

• ggplot2 object

Plot signature distribution across all subjects (default).

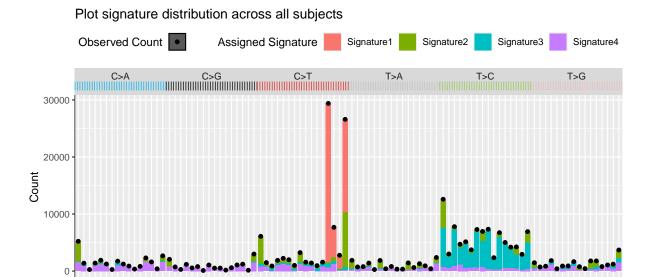
```
plot_signature_dist(
    sampler = sampler_learn_rank,
    title = "Plot signature distribution across all subjects"
)
```

## Plot signature distribution across all subjects



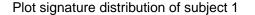
Plot signature distribution across all subjects without a reference.

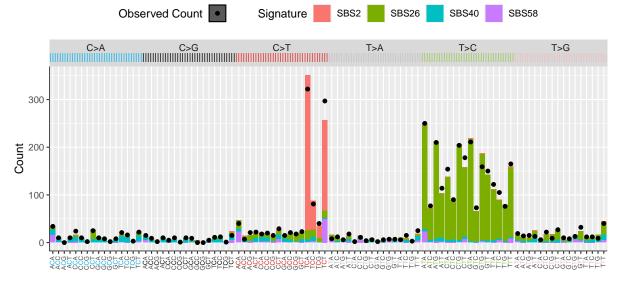
```
plot_signature_dist(
    sampler = sampler_learn_rank,
    title = "Plot signature distribution across all subjects",
    reference_P = NULL
)
```



Plot signature distribution of a particular subject

```
plot_signature_dist(
    sampler = sampler_learn_rank,
    subject = 1,
    title = "Plot signature distribution of subject 1"
)
```

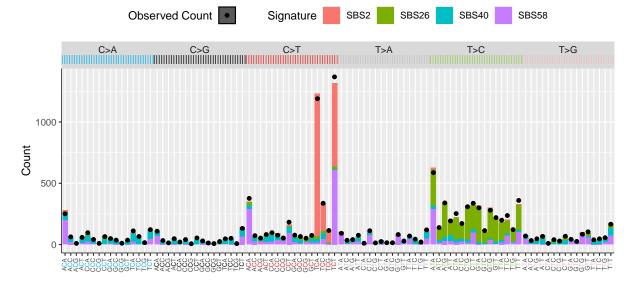




Plot signature distribution of a subset of subjects

```
plot_signature_dist(
    sampler = sampler_learn_rank,
    subjects = c(1,4,10),
    title = "Plot signature distribution of subjects 1, 4, and 10"
)
```

#### Plot signature distribution of subjects 1, 4, and 10



### **Summary Plot Variations**

The plot\_summary function plots a summary of the sampler's results, including the median contribution of each signature to the samples and the cosine similarity between the estimated and assigned reference signatures. Each sampler is plotted as its own x-axis tick, labeled by sampler name and sample size (G) of its dataset.

#### Input:

- sampler\_list: named list of bayesNMF\_sampler objects
- reference\_P: matrix or "cosmic", reference signatures to align to
- title: string, title of the plot
- fontsize: integer, font size
- keep\_all\_ref: boolean, whether to keep all reference signatures in the plot, or only the ones assigned to at least one sampler

## Output:

• ggplot2 object

```
sampler_fixed_rank <- readRDS("../examples/fixed_rank/sampler.rds")</pre>
```

Get summary of a single sampler

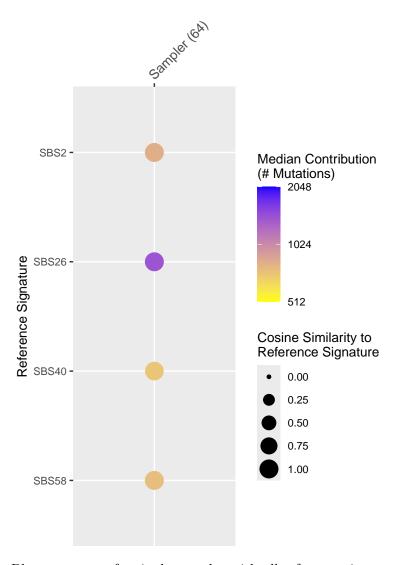
```
summary(sampler_fixed_rank)
```

Warning in assign\_signatures\_ensemble\_(self, reference\_P, idxs, credible\_interval): Row names of self\$data are not available. Reference matrix will not be reordered.

```
G N K Signature Med_Contribution Prop_atleast_1 Reference_Signature
                            820.1923
1 64 4 96
                  1
                                                   1
                                                                    SBS2
2 64 4 96
                  2
                            752.0887
                                                   1
                                                                   SBS58
3 64 4 96
                  3
                                                   1
                            720.7029
                                                                   SBS40
4 64 4 96
                                                   1
                                                                   SBS26
                           1410.2317
  Cosine_Similarity
          0.9995328
1
          0.9991726
3
          0.9594826
          0.9995315
4
```

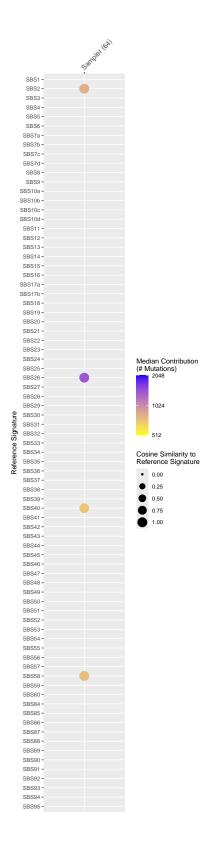
Plot summary of a single sampler

```
# make labels smaller for inline plots
small_text_theme <- ggplot2::theme(
    text = ggplot2::element_text(size = 10),
    title = ggplot2::element_text(size = 10),
    axis.title = ggplot2::element_text(size = 10),
    axis.text.x.top = ggplot2::element_text(size = 10),
    legend.title = ggplot2::element_text(size = 10)
)
plot_summary(sampler_fixed_rank) + small_text_theme</pre>
```



Plot summary of a single sampler with all reference signatures

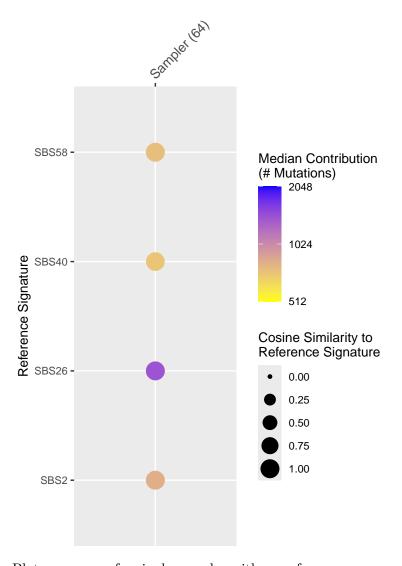
```
plot_summary(sampler_fixed_rank, keep_all = TRUE) +
    small_text_theme
```



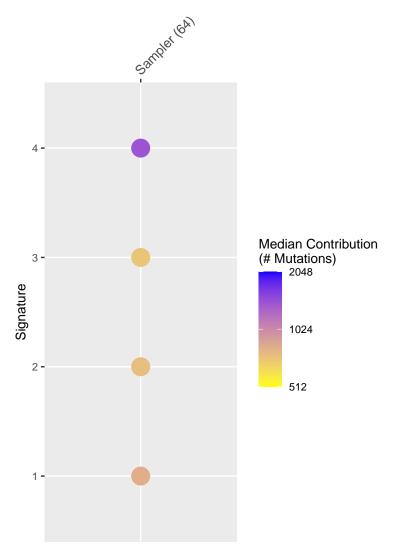
Plot summary of a single sampler with a custom reference

```
plot_summary(sampler_fixed_rank, reference_P = data$P) +
    small_text_theme
```

Warning in assign\_signatures\_ensemble\_(self, reference\_P, idxs, credible\_interval): Row names of self\$data are not available. Reference matrix will not be reordered.



Plot summary of a single sampler with no reference



Get summary of a list of samplers

```
summarize_samplers(list(
    "Fixed Rank" = sampler_fixed_rank,
    "Learn Rank" = sampler_learn_rank
))
```

Warning in assign\_signatures\_ensemble\_(self, reference\_P, idxs, credible\_interval): Row names of self\$data are not available. Reference matrix will not be reordered.

```
G N K Signature Med_Contribution Prop_atleast_1 Reference_Signature
1 64
     4 96
                              820.1923
                                                                      SBS2
                   1
2 64 4 96
                   2
                              752.0887
                                                     1
                                                                      SBS58
3 64 4 96
                   3
                              720.7029
                                                     1
                                                                      SBS40
4 64 4 96
                   4
                                                     1
                             1410.2317
                                                                      SBS26
5 64 10 96
                   1
                              811.4229
                                                     1
                                                                      SBS2
                   2
6 64 10 96
                              767.1811
                                                     1
                                                                      SBS58
7 64 10 96
                             1392.0588
                                                     1
                                                                      SBS26
8 64 10 96
                              760.1655
                                                     1
                                                                     SBS40
  Cosine_Similarity
                                Name
          0.9995328 Fixed Rank (64)
1
2
          0.9991726 Fixed Rank (64)
3
          0.9594826 Fixed Rank (64)
4
          0.9995315 Fixed Rank (64)
5
          0.9994635 Learn Rank (64)
6
          0.9992126 Learn Rank (64)
7
          0.9991438 Learn Rank (64)
          0.9666974 Learn Rank (64)
```

Plot summary of a list of samplers

```
plot_summary(list(
    "Fixed Rank" = sampler_fixed_rank,
    "Learn Rank" = sampler_learn_rank
)) + small_text_theme
```

