

# MSA Heatmap

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```
library(bio3d)
```

```
alignment <- read.fasta("new_msa_alignment.clw.fst")
```

```
seqidentity(alignment)
```

	Homo_sapiens	Stoat	Brown_bear	Snow_leopard	Canada_lynx	Leopard
Homo_sapiens	1.000	0.951	0.954	0.966	0.966	0.966
Stoat	0.951	1.000	0.966	0.968	0.968	0.968
Brown_bear	0.954	0.966	1.000	0.983	0.983	0.983
Snow_leopard	0.966	0.968	0.983	1.000	1.000	1.000
Canada_lynx	0.966	0.968	0.983	1.000	1.000	1.000
Leopard	0.966	0.968	0.983	1.000	1.000	1.000
Jaguarundi	0.966	0.968	0.983	1.000	1.000	1.000

	Jaguarundi
Homo_sapiens	0.966
Stoat	0.968
Brown_bear	0.983
Snow_leopard	1.000
Canada_lynx	1.000
Leopard	1.000
Jaguarundi	1.000

```
identity_matrix <- seqidentity(alignment)
```

```
heatmap(identity_matrix, Rowv = NA, Colv = NA, scale = "none", main = "Sequence Identity H
```

# Sequence Identity Heatmap

