CHMMSingle Command

```
__init__(self, commanding)
    self.__TrainInterface(self)
    self.__PredictInterface(...)
```

Minim Statistic → Noise estimation

$$y = x - \tilde{N}$$
$$= x\left(1 - \frac{\tilde{N}}{x}\right)$$
$$= x \cdot H_{MS}$$

Wiener

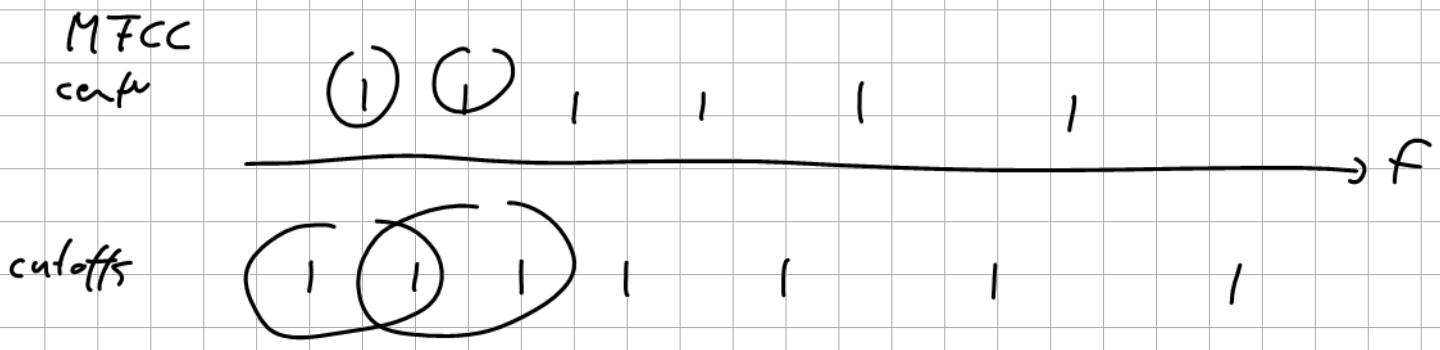
$$y = x \cdot H_W$$

```
__EstimateTransferFunction(...)
    return H
```

```
__Transferfunction(x)
H = self.__EstimateTransferFunction(...)   ← für MS und Wiener
y = x * H
self.__UpdateNoiseDensity                  ←
```

Denoise Generic →
```
self.__Transferfunction(self, x)
    return x * self._H
```

Denoise Wiener →
```
__Transferfunction(self, x)
    self._H = self.__EstimateTransferFunction(...)
    super().__Transferfunction
```


MFCC
centers
f
cutoffs