R Notebook

```
tobler <- function(x){</pre>
  6 * \exp(-3.5 * abs(x + .05))
library(tidyverse)
## Loading tidyverse: ggplot2
## Loading tidyverse: tibble
## Loading tidyverse: tidyr
## Loading tidyverse: readr
## Loading tidyverse: purrr
## Loading tidyverse: dplyr
## Conflicts with tidy packages
## filter(): dplyr, stats
## lag():
             dplyr, stats
slope \leftarrow seq(-1, 1, .01)
qplot(slope, tobler(slope), geom = 'line' ) +
  geom_vline(xintercept = 0, linetype = 2) +
  labs(x = 'Slope (rise over run)', y = 'Walking speed (m/s)', title = "Tobler's hiking function") +
  theme_classic(base_size = 20)
```

Tobler's hiking function

