

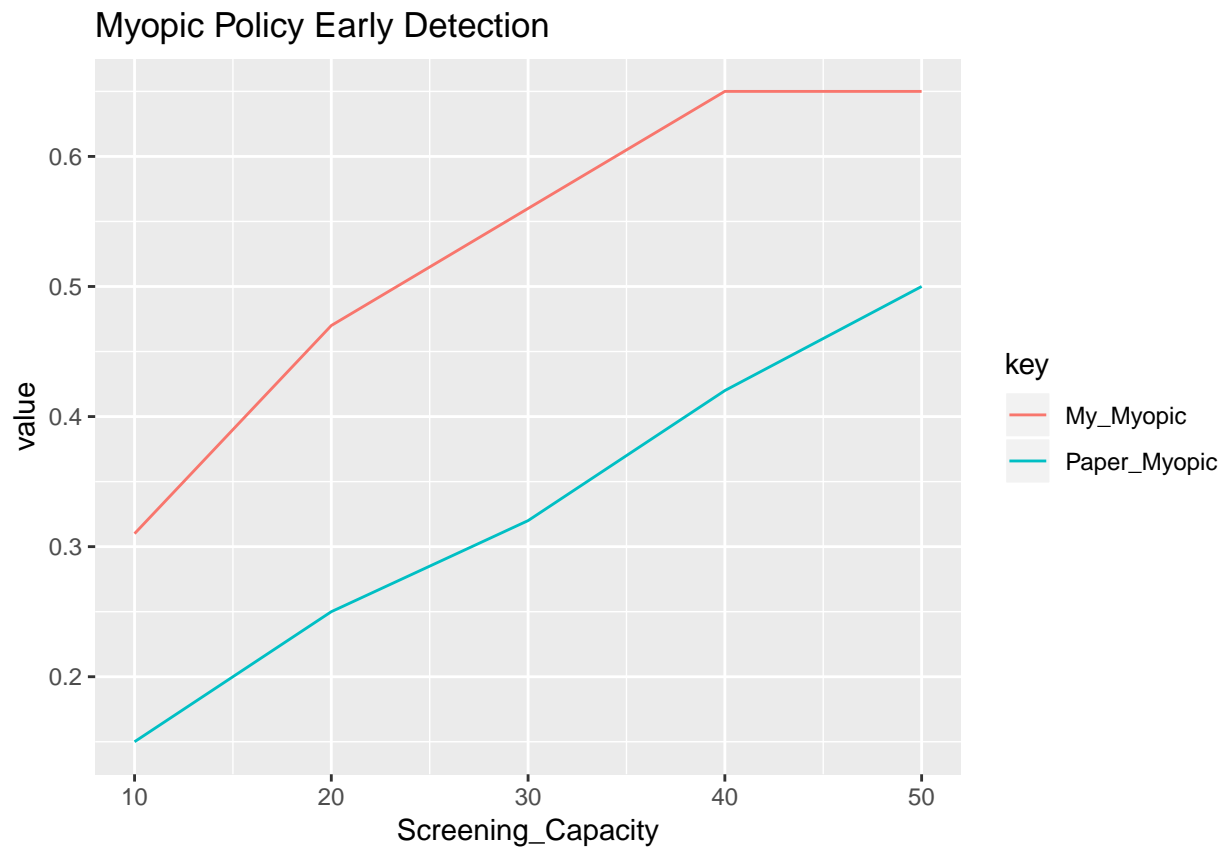
# Initial\_Results

## Myopic

```
library(ggplot2)
library(tidyr)

test_data <-
  data.frame(
    Paper_Myopic = c(0.15, 0.25, 0.32, 0.42, 0.5),
    My_Myopic = c(0.31, 0.47, 0.56, 0.65, 0.65),
    Screening_Capacity = c(10, 20, 30, 40, 50)
  )

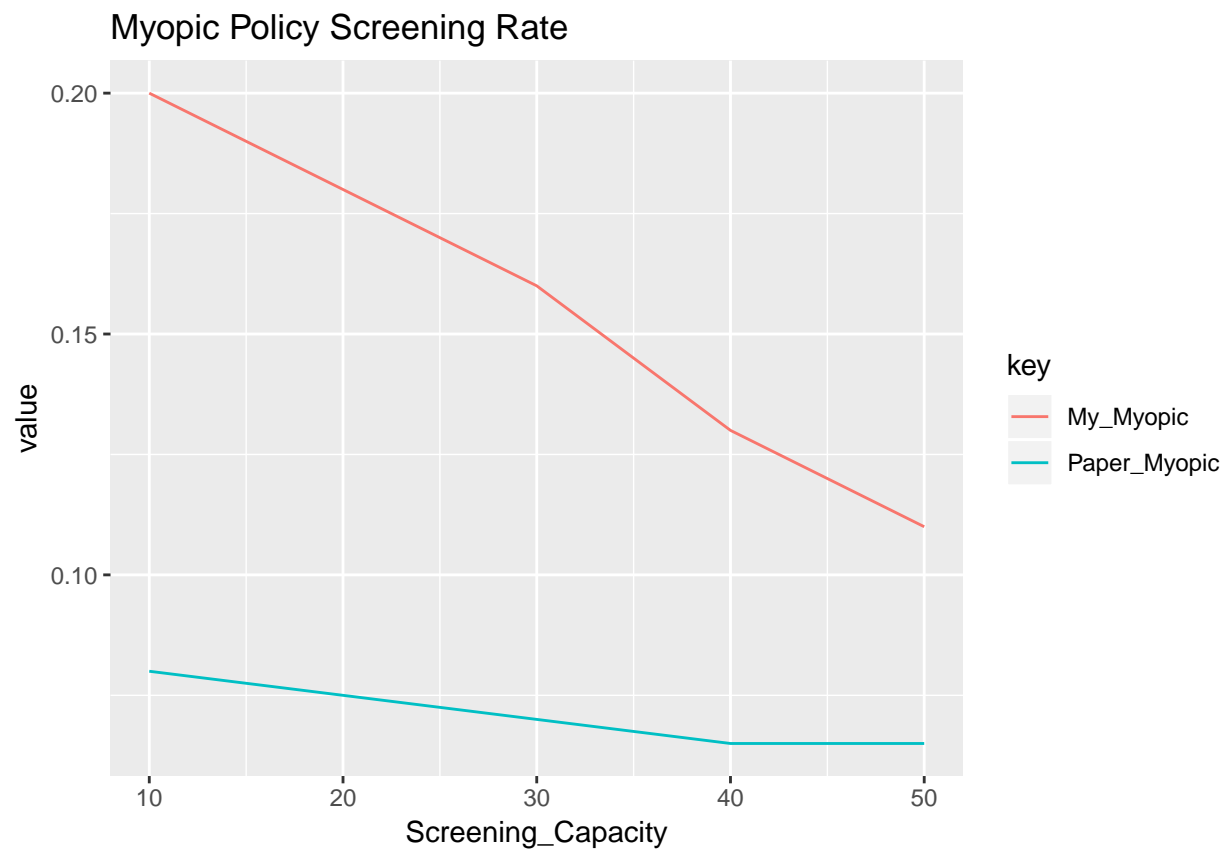
test_data %>%
  gather(key,value, Paper_Myopic, My_Myopic) %>%
  ggplot(aes(x=Screening_Capacity, y=value, colour=key)) +
  geom_line() +
  ggtitle("Myopic Policy Early Detection")
```



```
test_data2 <-
  data.frame(
    Paper_Myopic = c(0.08, 0.075, 0.07, 0.065, 0.065),
    My_Myopic = c(0.2, 0.18, 0.16, 0.13, 0.11),
    Screening_Capacity = c(10, 20, 30, 40, 50)
  )
```

```
)

test_data2 %>%
  gather(key,value, Paper_Myopic, My_Myopic) %>%
  ggplot(aes(x=Screening_Capacity, y=value, colour=key)) +
  geom_line() +
  ggtitle("Myopic Policy Screening Rate")
```

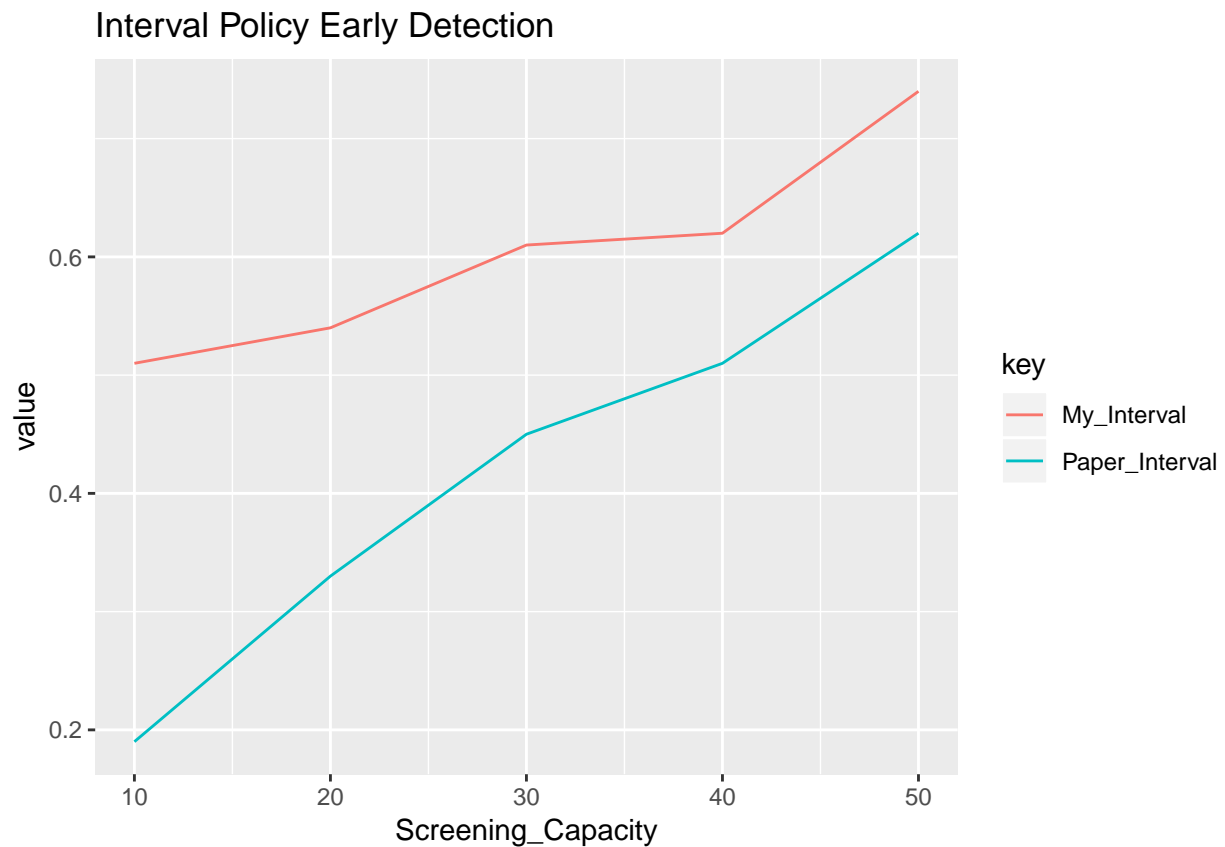


## Interval

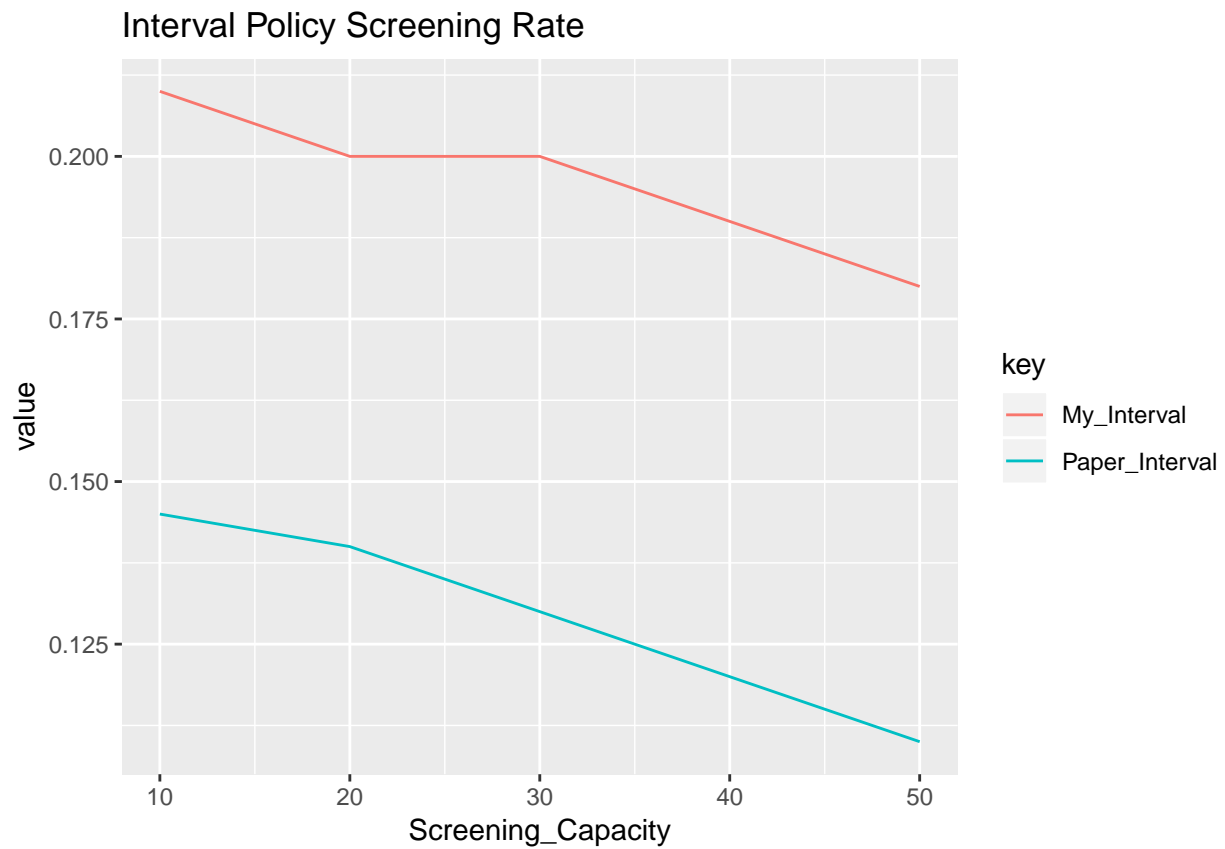
```
library(ggplot2)
library(tidyr)

test_data <-
  data.frame(
    Paper_Interval = c(0.19, 0.33, 0.45, 0.51, 0.62),
    My_Interval = c(0.51, 0.54, 0.61, 0.62, 0.74),
    Screening_Capacity = c(10, 20, 30, 40, 50)
  )

test_data %>%
  gather(key,value, Paper_Interval, My_Interval) %>%
  ggplot(aes(x=Screening_Capacity, y=value, colour=key)) +
  geom_line() +
  ggtitle("Interval Policy Early Detection")
```



```
test_data2 <-  
  data.frame(  
    Paper_Interval = c(0.145, 0.14, 0.13, 0.12, 0.11),  
    My_Interval = c(0.21, 0.20, 0.20, 0.19, 0.18),  
    Screening_Capacity = c(10, 20, 30, 40, 50)  
  )  
  
test_data2 %>%  
  gather(key,value, Paper_Interval, My_Interval) %>%  
  ggplot(aes(x=Screening_Capacity, y=value, colour=key)) +  
  geom_line() +  
  ggtitle("Interval Policy Screening Rate")
```

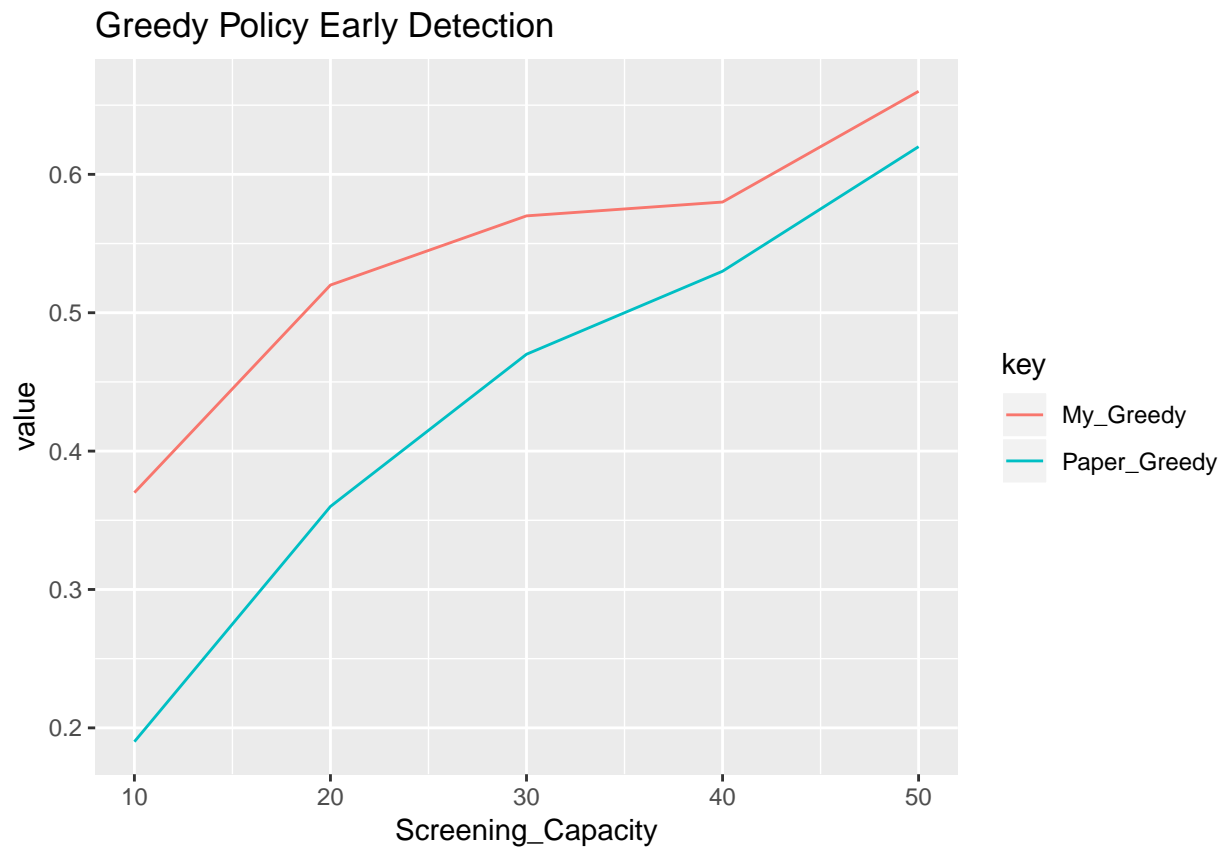


## Greedy

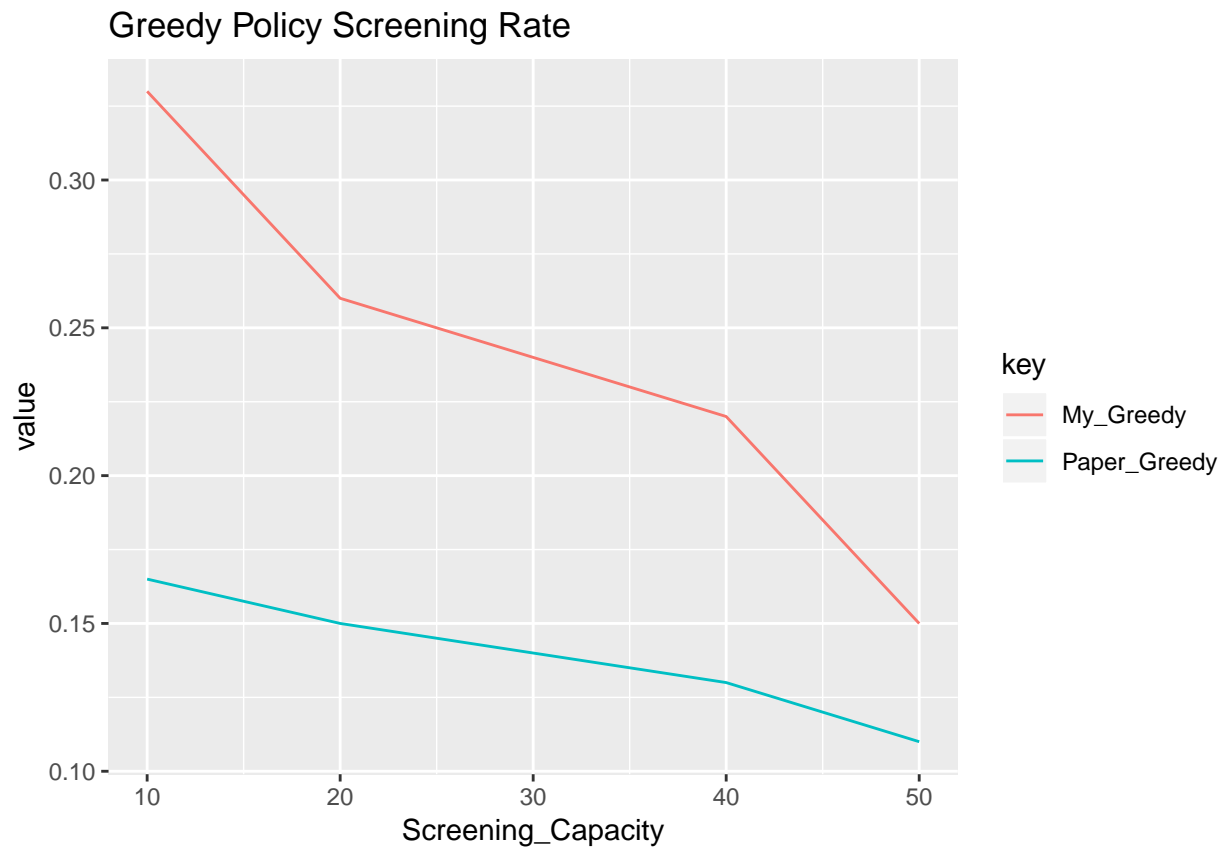
```
library(ggplot2)
library(tidyr)

test_data <-
  data.frame(
    Paper_Greedy = c(0.19, 0.36, 0.47, 0.53, 0.62),
    My_Greedy = c(0.37, 0.52, 0.57, 0.58, 0.66),
    Screening_Capacity = c(10, 20, 30, 40, 50)
  )

test_data %>%
  gather(key, value, Paper_Greedy, My_Greedy) %>%
  ggplot(aes(x=Screening_Capacity, y=value, colour=key)) +
  geom_line() +
  ggtitle("Greedy Policy Early Detection")
```



```
test_data2 <-  
  data.frame(  
    Paper_Greedy = c(0.165, 0.15, 0.14, 0.13, 0.11),  
    My_Greedy = c(0.33, 0.26, 0.24, 0.22, 0.15),  
    Screening_Capacity = c(10, 20, 30, 40, 50)  
  )  
  
test_data2 %>%  
  gather(key,value, Paper_Greedy, My_Greedy) %>%  
  ggplot(aes(x=Screening_Capacity, y=value, colour=key)) +  
  geom_line() +  
  ggtitle("Greedy Policy Screening Rate")
```

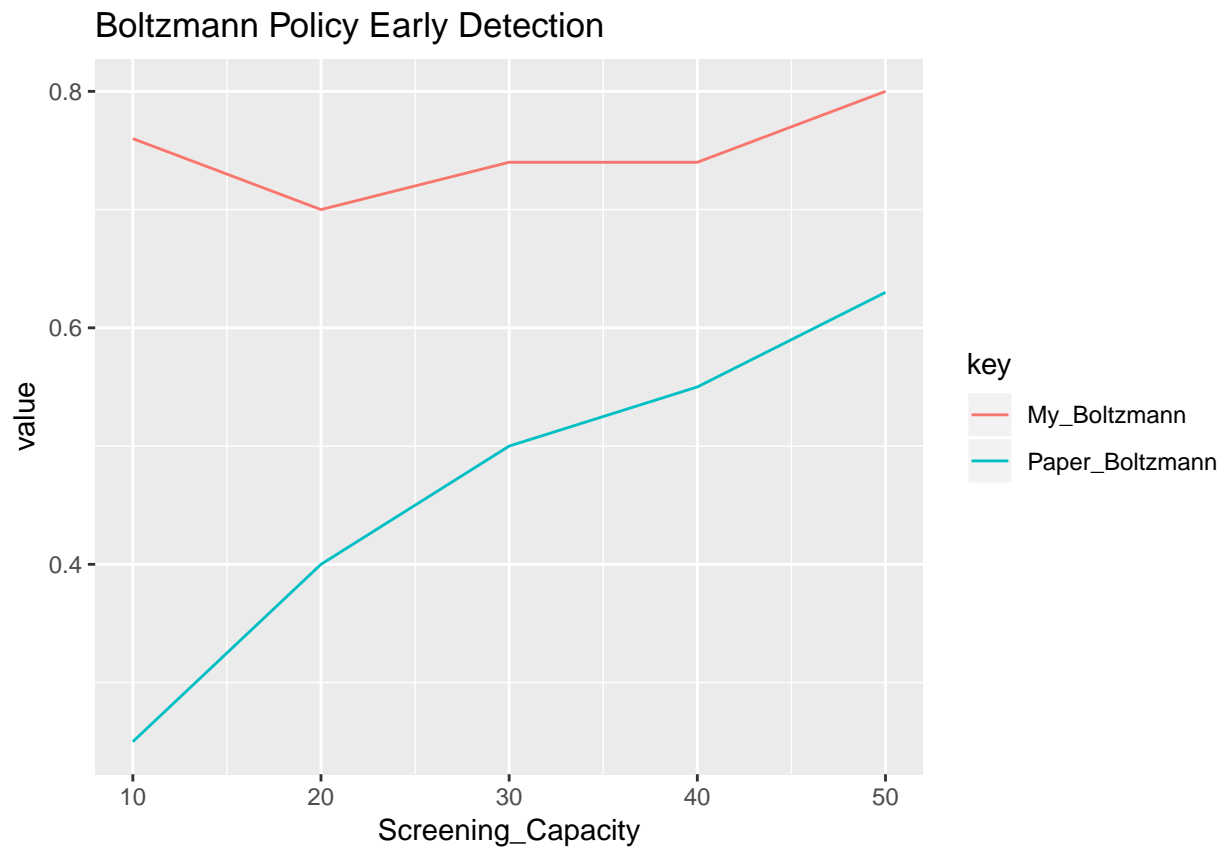


## Boltzmann

```
library(ggplot2)
library(tidyr)

test_data <-
  data.frame(
    Paper_Boltzmann = c(0.25, 0.4, 0.5, 0.55, 0.63),
    My_Boltzmann = c(0.76, 0.70, 0.74, 0.74, 0.8),
    Screening_Capacity = c(10, 20, 30, 40, 50)
  )

test_data %>%
  gather(key, value, Paper_Boltzmann, My_Boltzmann) %>%
  ggplot(aes(x=Screening_Capacity, y=value, colour=key)) +
  geom_line() +
  ggtitle("Boltzmann Policy Early Detection")
```



```
test_data2 <-  
  data.frame(  
    Paper_Boltzmann = c(0.15, 0.14, 0.13, 0.12, 0.11),  
    My_Boltzmann = c(0.07, 0.062, 0.08, 0.08, 0.08),  
    Screening_Capacity = c(10, 20, 30, 40, 50)  
  )  
  
test_data2 %>%  
  gather(key,value, Paper_Boltzmann, My_Boltzmann) %>%  
  ggplot(aes(x=Screening_Capacity, y=value, colour=key)) +  
  geom_line() +  
  ggtitle("Boltzmann Policy Screening Rate")
```

