Cost-effectiveness acceptability curve plots

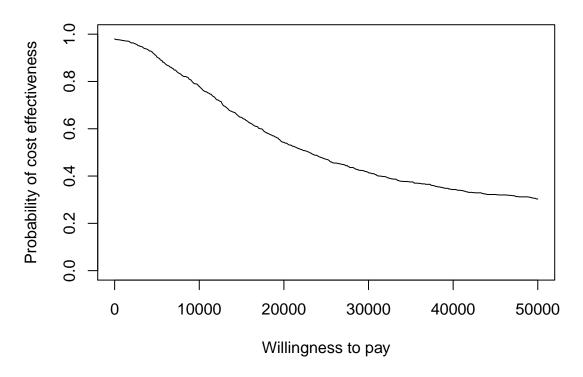
```
library(BCEA)
library(dplyr)
library(reshape2)
library(ggplot2)
library(purrr)
```

The intention of this vignette is to show how to plot different styles of cost-effectiveness acceptability curves using the BCEA package.

Two interventions only

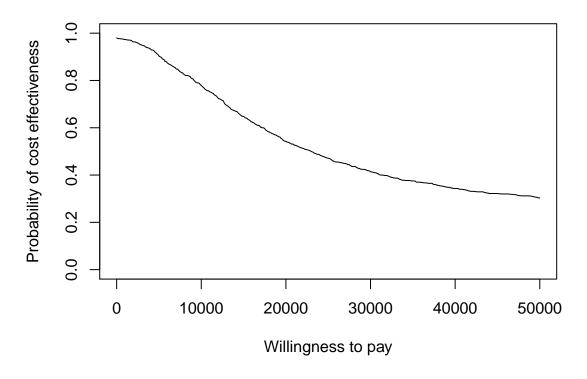
This is the simplest case, usually status-quo versus an alternative intervention.

```
data("Vaccine")
he <- bcea(e, c)
# str(he)
ceac.plot(he)</pre>
```

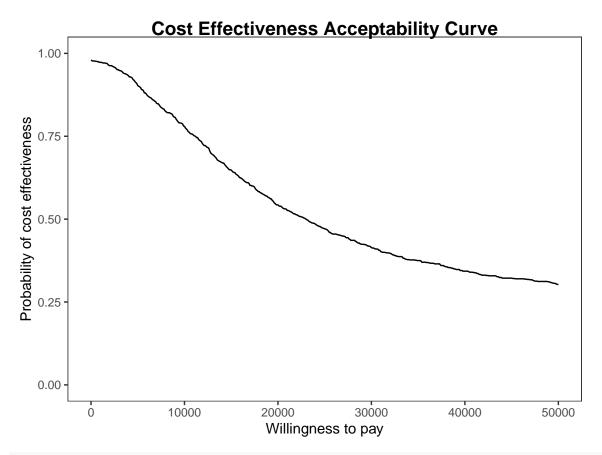


The plot defaults to base R plotting. Type of plot can be set explicitly using the graph argument.

ceac.plot(he, graph = "base")

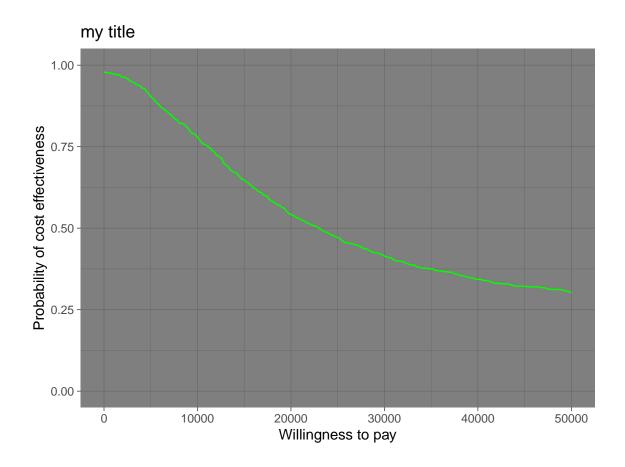


ceac.plot(he, graph = "ggplot2")



```
# ceac.plot(he, graph = "plotly")
```

Other plotting arguments can be specified such as title, line colours and theme.



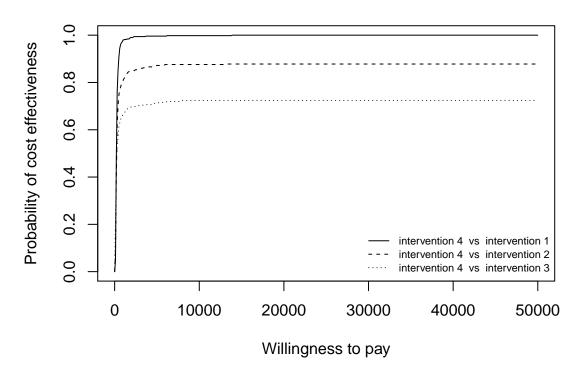
Multiple interventions

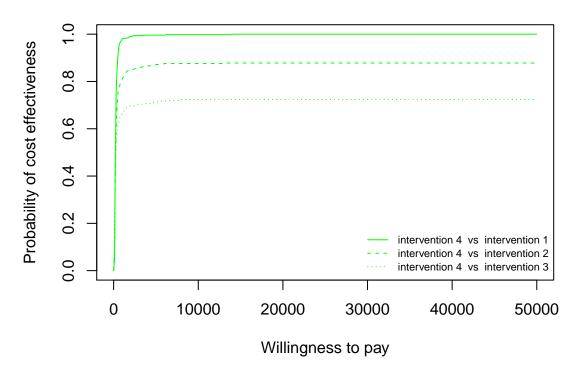
This situation is when there are more than two interventions to consider. Incremental values can be obtained either alway against a fixed reference intervention, such as status-quo, or for all pair-wise comparisons.

Against a fixed reference intervention

```
data("Smoking")
he <- bcea(e, c, ref = 4)
# str(he)

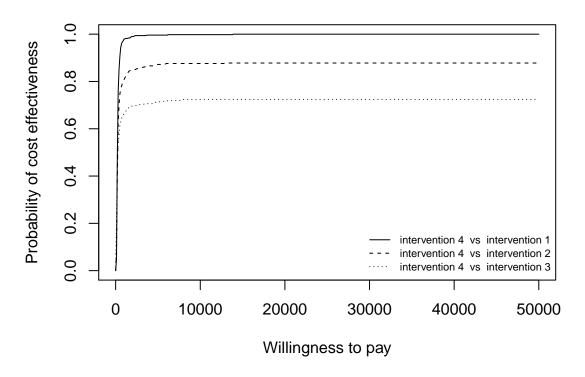
ceac.plot(he)
#> Wrong number of colours provided. Falling back to default
```



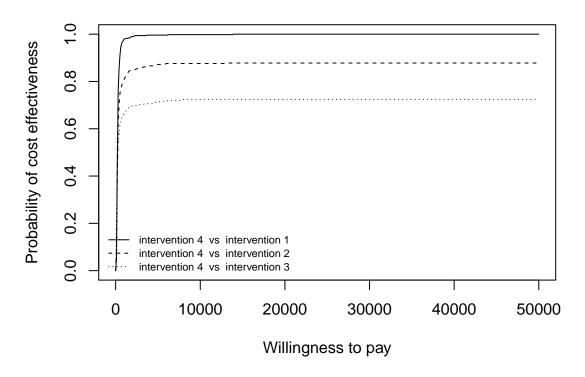


Reposition legend.

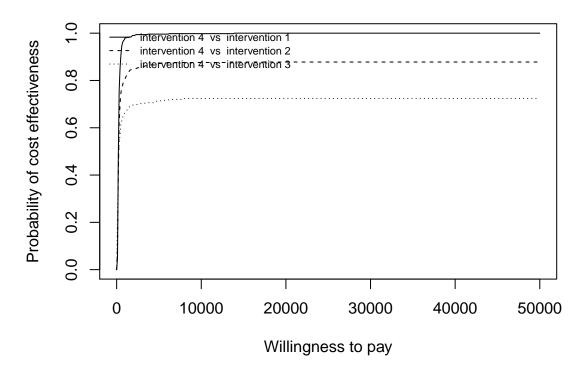
```
ceac.plot(he, pos = FALSE) # bottom right
#> Wrong number of colours provided. Falling back to default
```



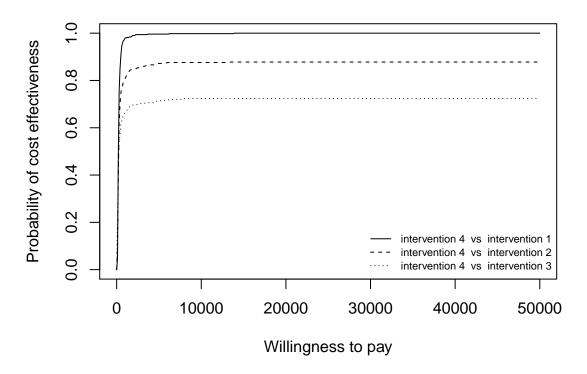
```
ceac.plot(he, pos = c(0, 0))
#> Wrong number of colours provided. Falling back to default
```



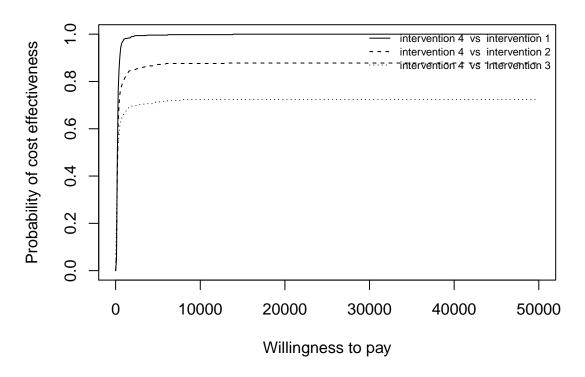
```
ceac.plot(he, pos = c(0, 1))
#> Wrong number of colours provided. Falling back to default
```



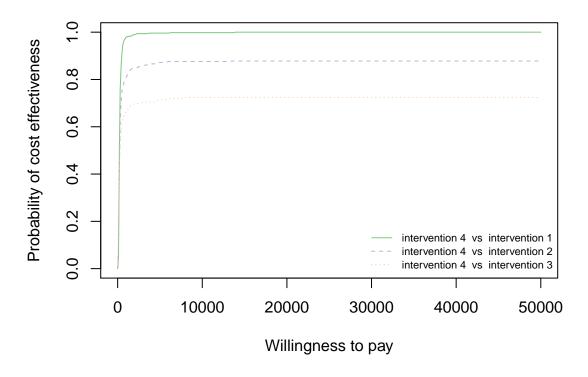
```
ceac.plot(he, pos = c(1, 0))
#> Wrong number of colours provided. Falling back to default
```



```
ceac.plot(he, pos = c(1, 1))
#> Wrong number of colours provided. Falling back to default
```



Define colour palette.



Pair-wise comparisons

First we must determine all combinations of paired interventions using the multi.ce() function.

```
he <- multi.ce(he)
```

We can use the same plotting calls as before i.e. ceac.plot() and BCEA will deal with the pairwise situation appropriately. Note that in this case the probabilities at a given willingness to pay sum to 1.

```
ceac.plot(he, graph = "base")
#> Wrong number of colours provided. Falling back to default
```

