TESTS_DEV - S5 Représentation des indicateurs : moyenne & ecart-type / mediane & quatile

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```
## Loading required package: grid
```

```
## Loading required package: chron
```

```
## Loading required package: Matrix
```

```
## Loading required package: colorspace
```

```
## Loading required package: stringr
```

Jeu de Données 1

Vérification Action1

Mean

```
vi <- visielse( X=data, book=book, pixel= 0.5, informer="mean",doplot=FALSE)
```

```
## Warning in .local(.Object, ...): No green zone defined for punctuals actions
##
```

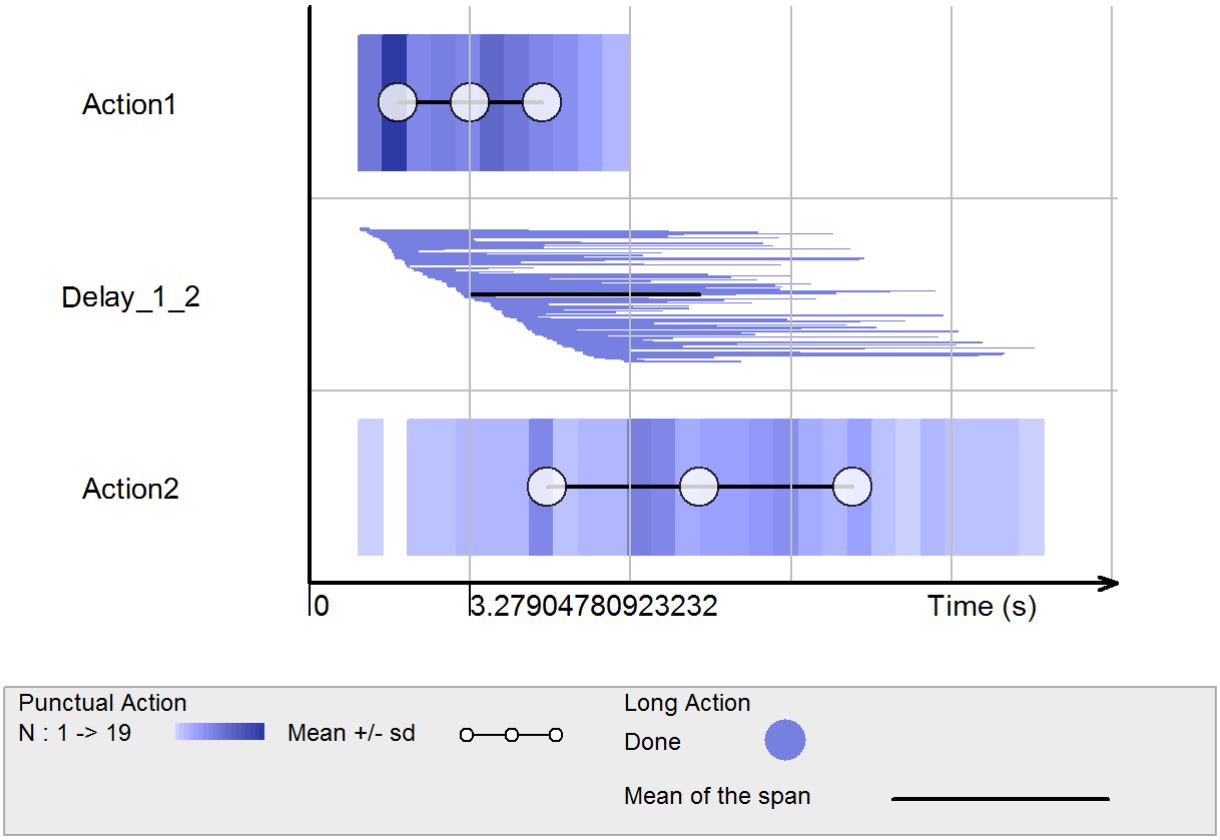
```
# Avec ViSiElse vie informers
vi@informers
```

```
##       Action1   Action2 span_Delay_1_2 plot_Delay_1_2
## [1,] 1.803259  4.844959       1.855481       3.658740
## [2,] 3.279048  7.964699       4.685651       7.964699
## [3,] 4.754837 11.084439       7.515821      12.270658
```

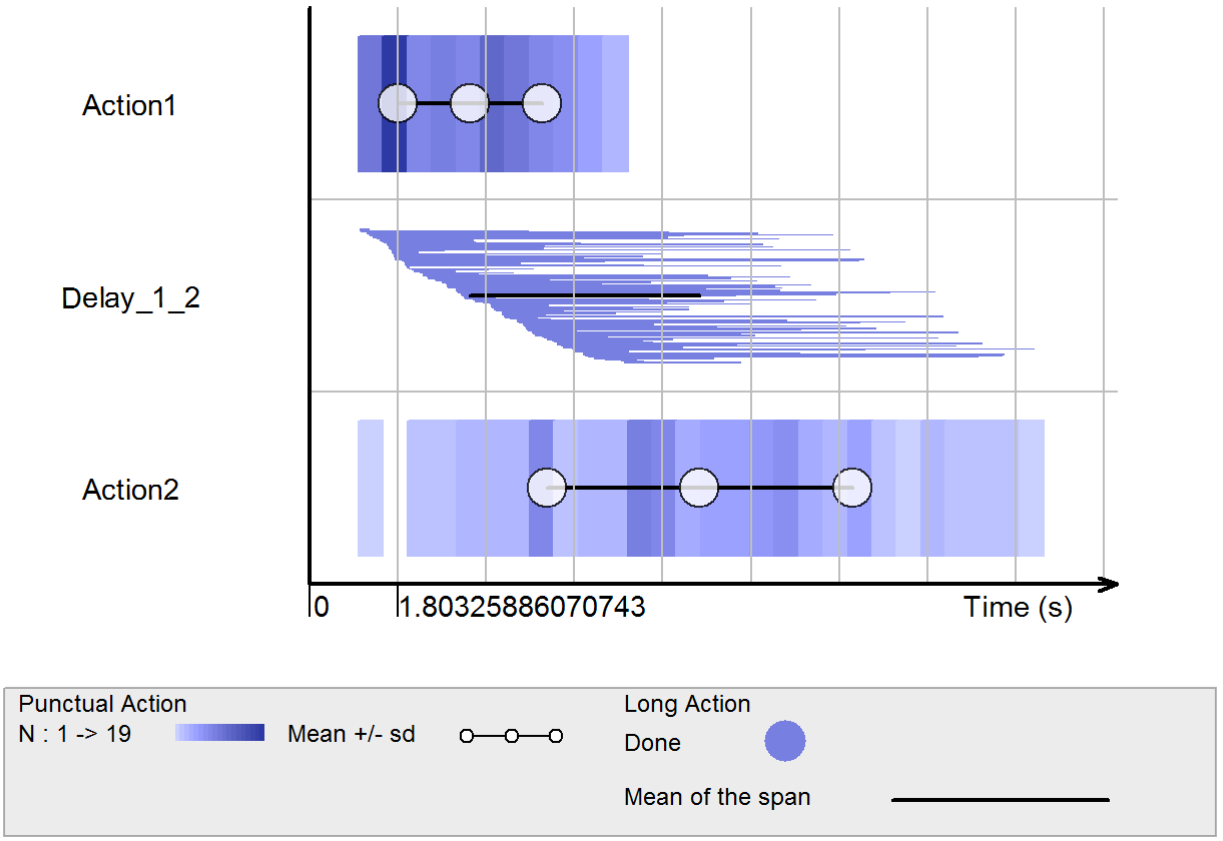
```
# Avec R directement sur les data
c(mean(data[,2]),
mean(data[,2]) - sqrt( var(data[,2])),
mean(data[,2]) + sqrt( var(data[,2])))
```

```
## [1] 3.279048 1.803259 4.754837
```

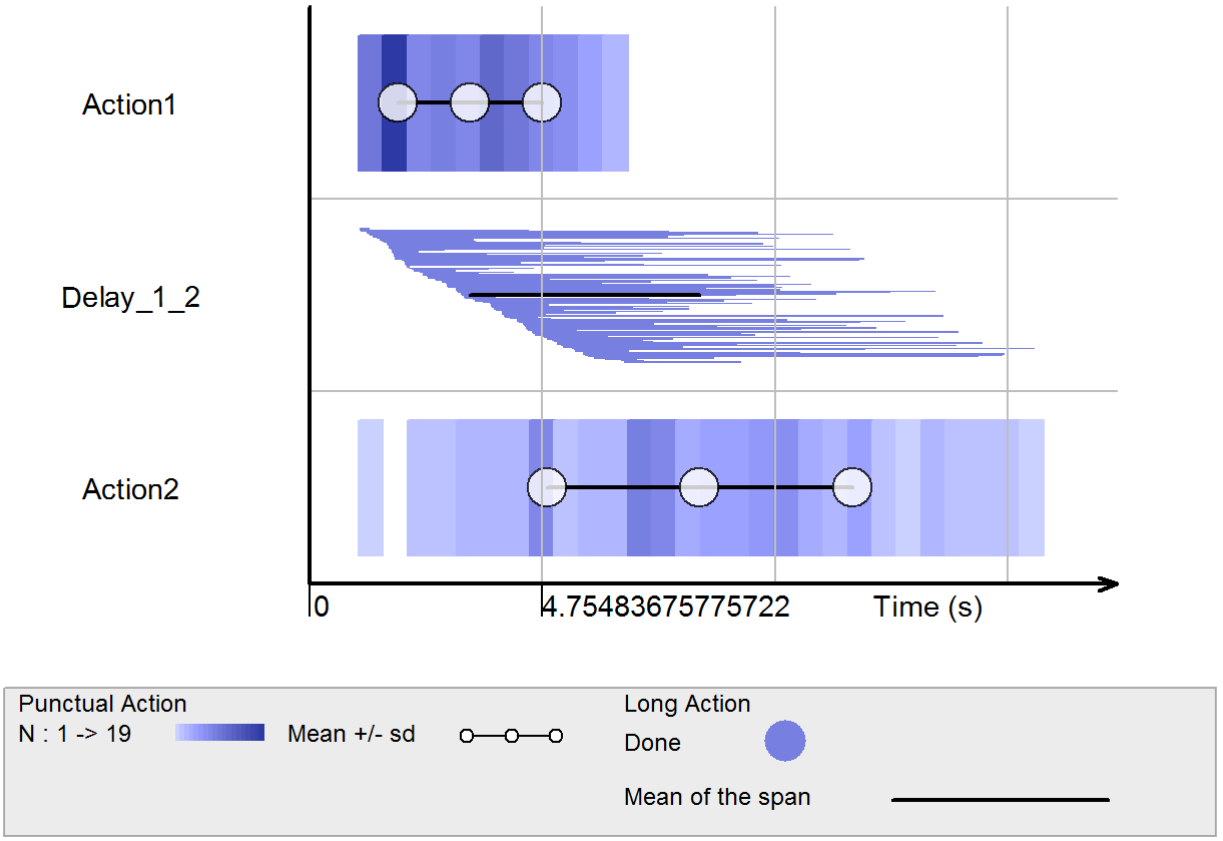
```
plot(vi, scal.unit.tps = mean(data[,2]))
```




```
plot(vi, scal.unit.tps = ( mean(data[,2]) - sqrt( var(data[,2])) ))
```




```
plot(vi, scal.unit.tps = ( mean(data[,2]) + sqrt( var(data[,2])) ) )
```



Median

```
vi <- visielse( X=data, book=book, pixel= 0.5, informer="median",doplot=FALSE)
```

```
## Warning in .local(.Object, ...): No green zone defined for punctuals actions
##
```

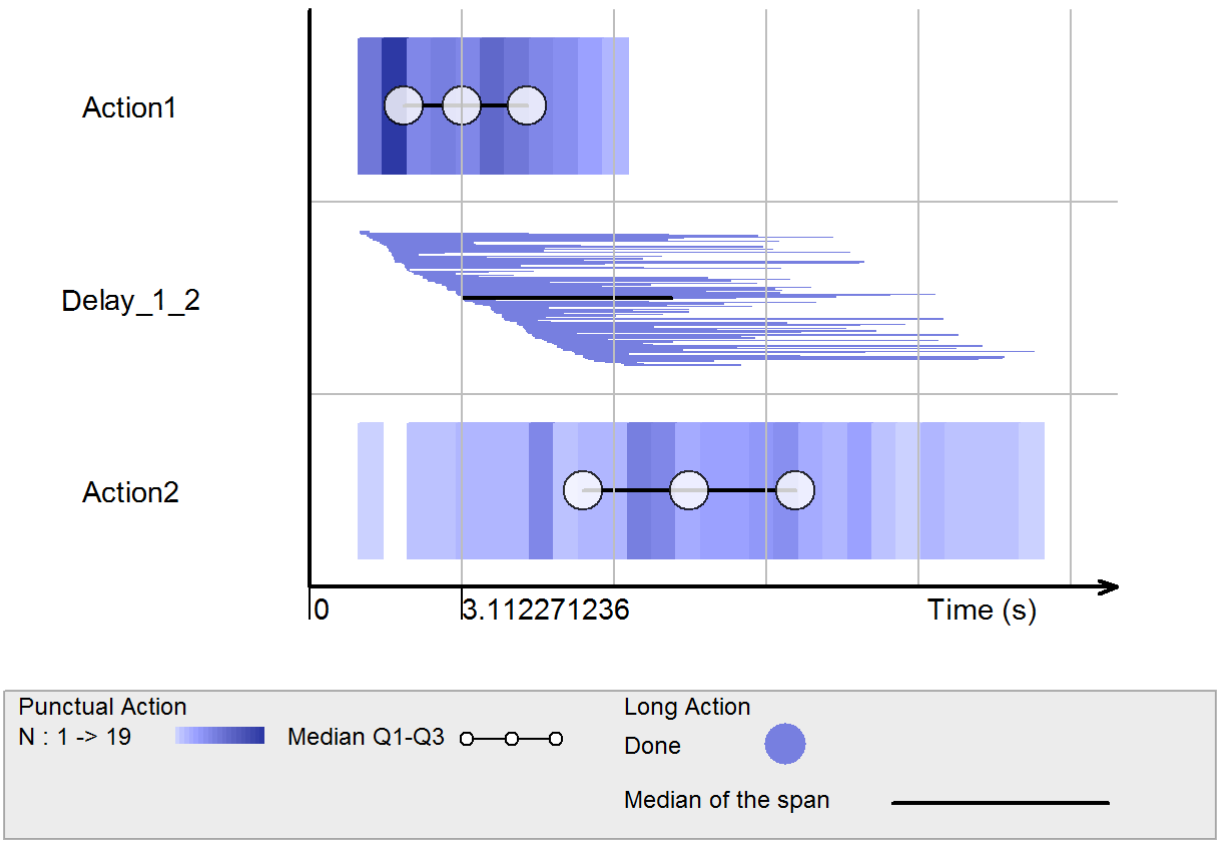
```
# Avec ViSiElse vie informers
vi@informers
```

```
##      Action1  Action2 span_Delay_1_2 plot_Delay_1_2
## 25% 1.930244 5.580462       2.342347       4.272590
##     3.112271 7.755786       4.279171       7.391443
## 75% 4.437195 9.923738       7.079396      11.516591
```

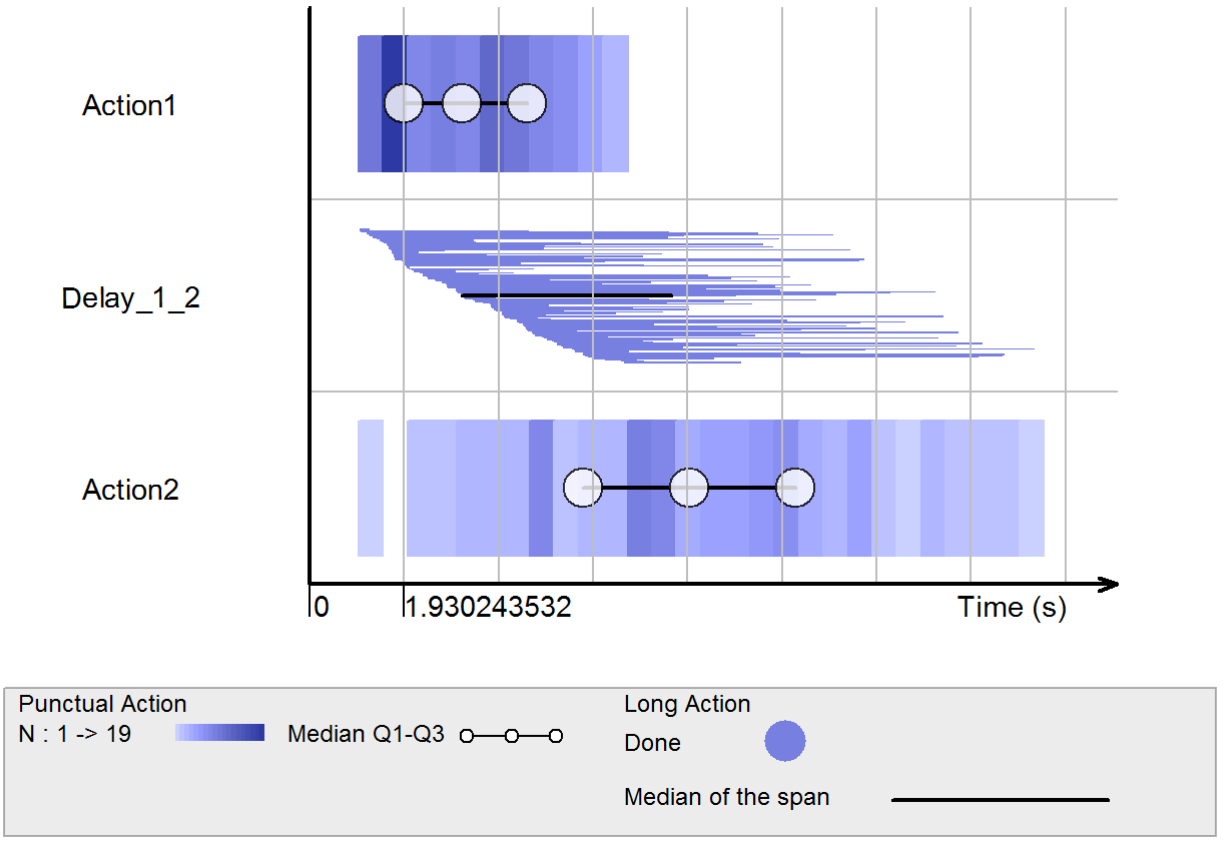
```
# Avec R directement sur les data
quantile(data[,2])
```

```
##       0%      25%      50%      75%     100%
## 1.016362 1.930244 3.112271 4.437195 6.418389
```

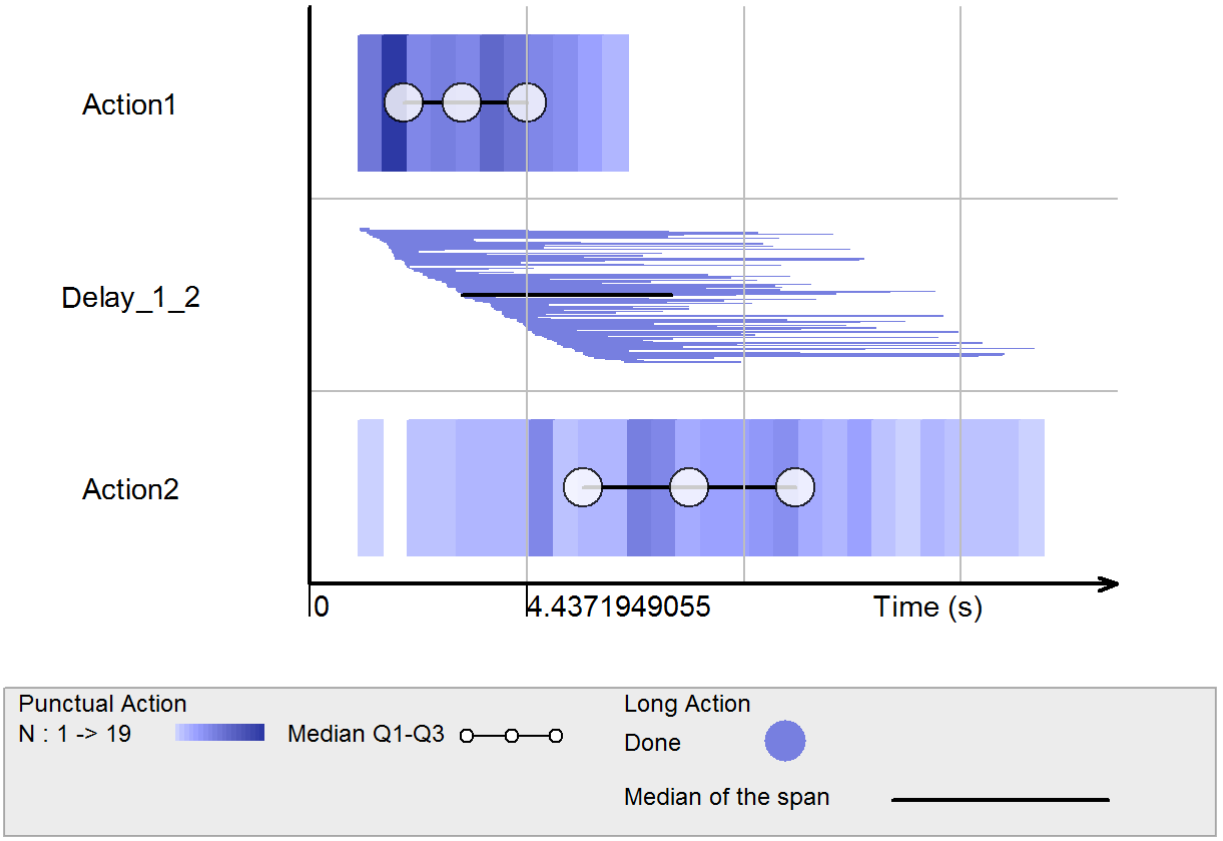
```
plot(vi, scal.unit.tps = quantile(data[,2])[3] )
```




```
plot(vi, scal.unit.tps = quantile(data[,2])[2] )
```




```
plot(vi, scal.unit.tps = quantile(data[,2])[4] )
```



Vérification Action 2

Mean

```
vi <- visielse( X=data, book=book, pixel= 0.5, informer="mean",doplot=FALSE)
```

```
## Warning in .local(.Object, ...): No green zone defined for punctuals actions
##
```

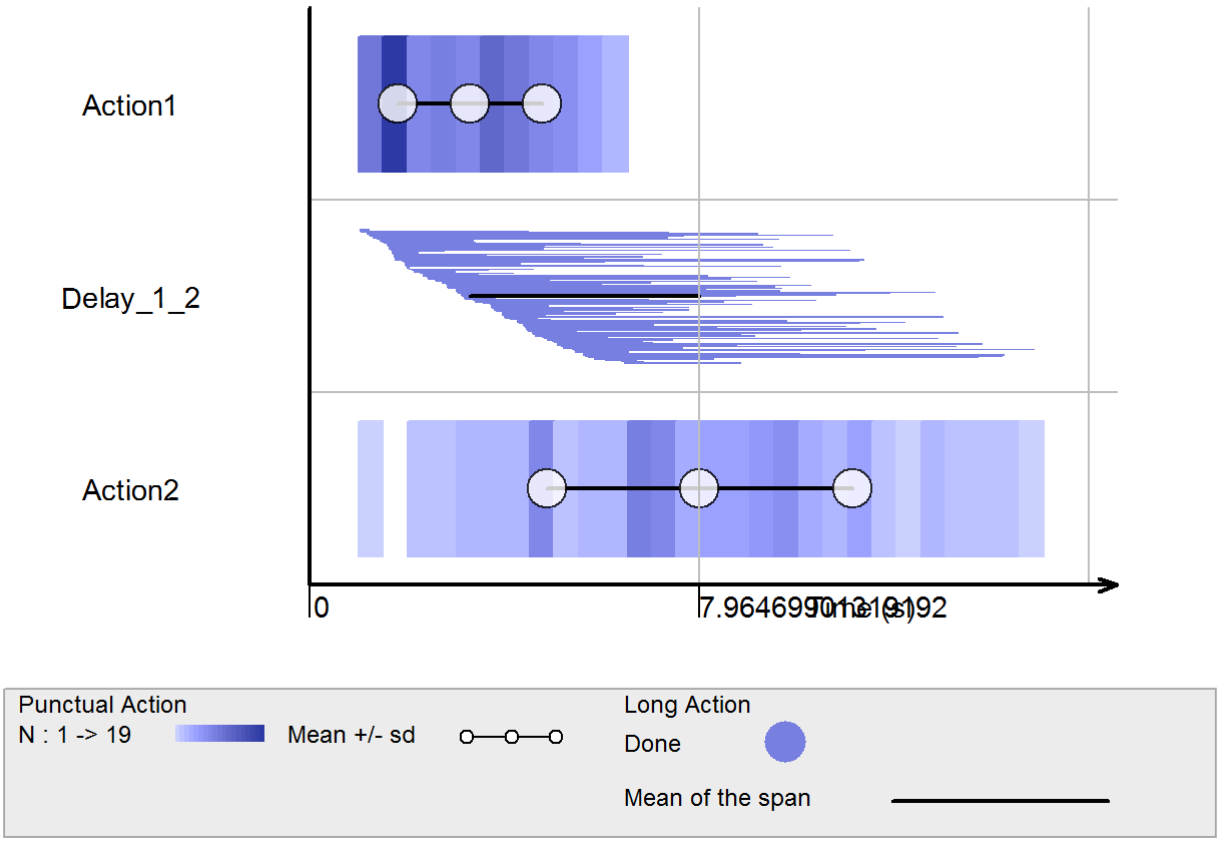
```
# Avec ViSiELse vie informers
vi@informers
```

```
##       Action1   Action2 span_Delay_1_2 plot_Delay_1_2
## [1,] 1.803259  4.844959       1.855481       3.658740
## [2,] 3.279048  7.964699       4.685651       7.964699
## [3,] 4.754837 11.084439       7.515821      12.270658
```

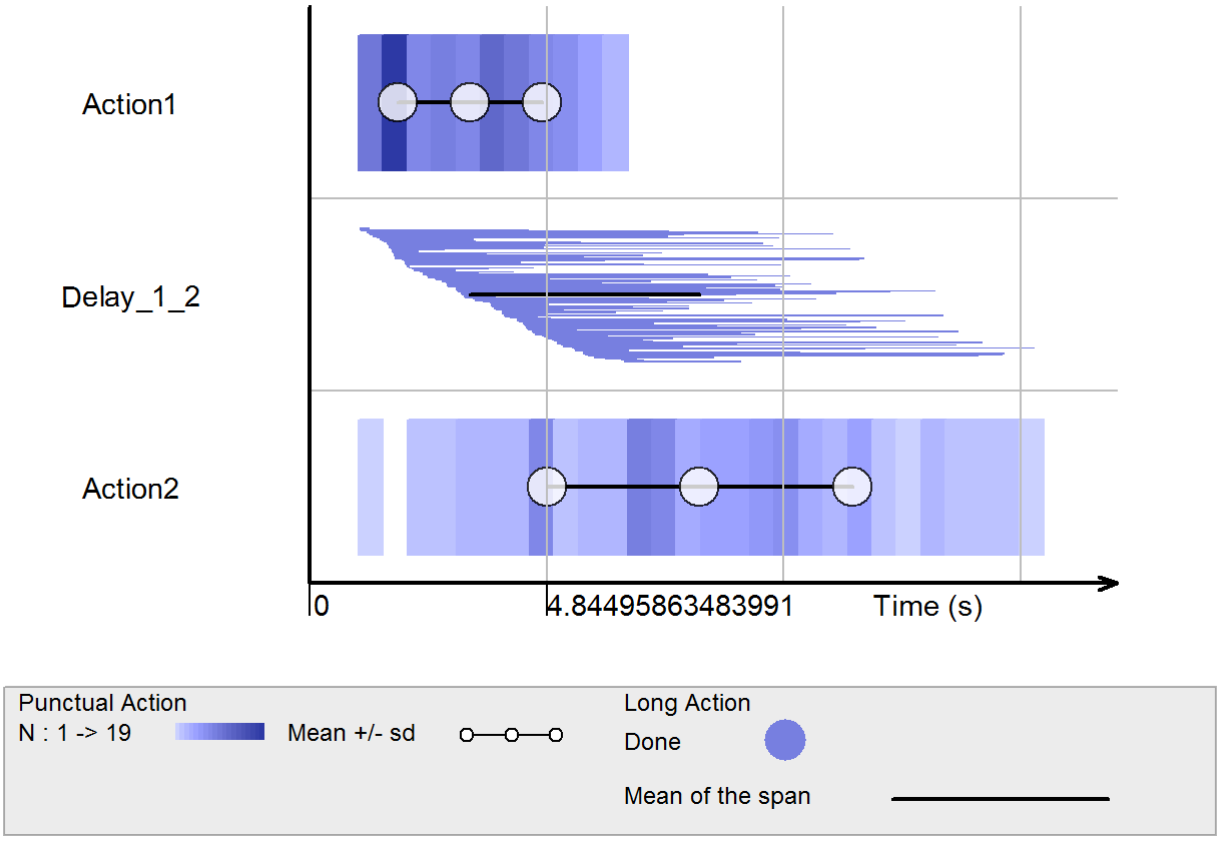
```
# Avec R directement sur les data
c(mean(data[,3]),
mean(data[,3]) - sqrt( var(data[,3])),
mean(data[,3]) + sqrt( var(data[,3])))
```

```
## [1]  7.964699  4.844959 11.084439
```

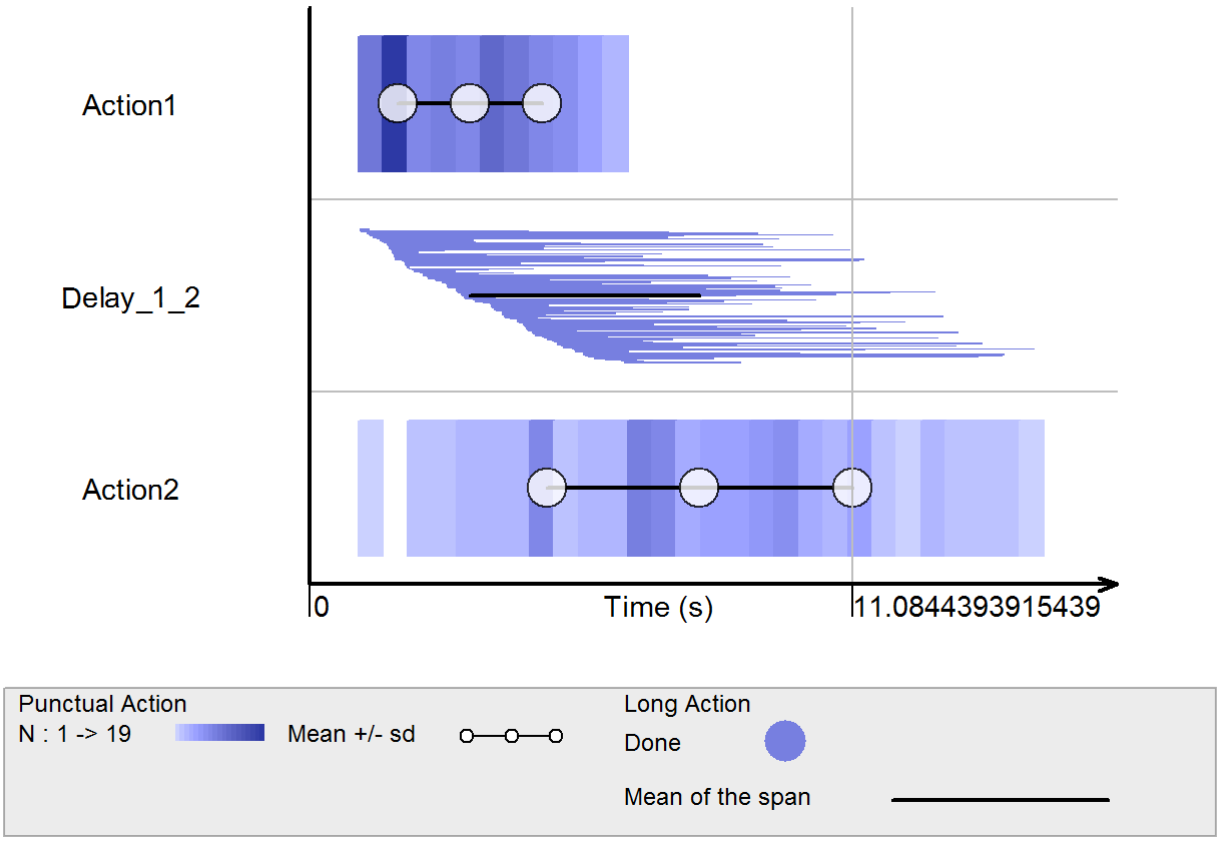
```
plot(vi, scal.unit.tps = mean(data[,3]))
```



```
plot(vi, scal.unit.tps = ( mean(data[,3]) - sqrt( var(data[,3])) ))
```




```
plot(vi, scal.unit.tps = ( mean(data[,3]) + sqrt( var(data[,3])) ) )
```



Median

```
vi <- visielse( X=data, book=book, pixel= 0.5, informer="median",doplot=FALSE)
```

```
## Warning in .local(.Object, ...): No green zone defined for punctuals actions
##
```

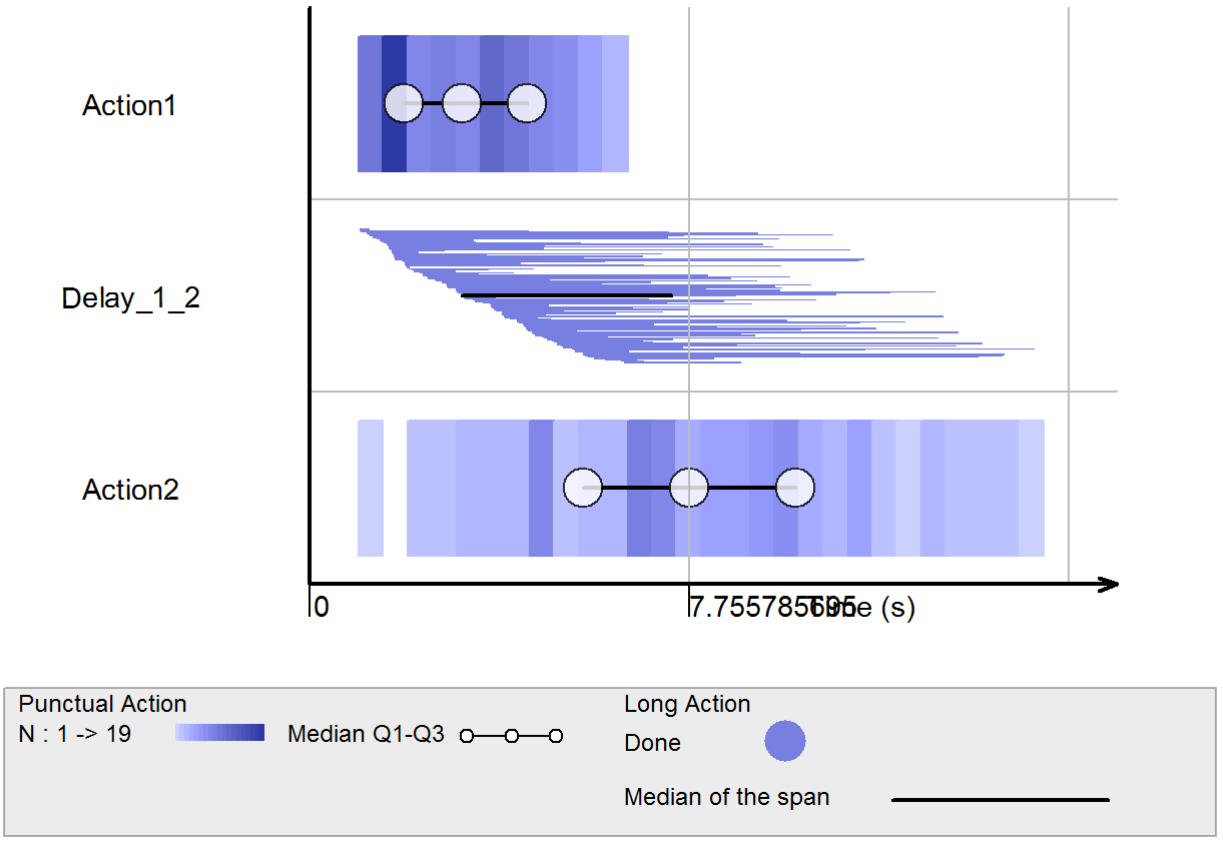
```
# Avec ViSiElse vie informers
vi@informers
```

```
##      Action1  Action2 span_Delay_1_2 plot_Delay_1_2
## 25% 1.930244 5.580462       2.342347       4.272590
##     3.112271 7.755786       4.279171       7.391443
## 75% 4.437195 9.923738       7.079396      11.516591
```

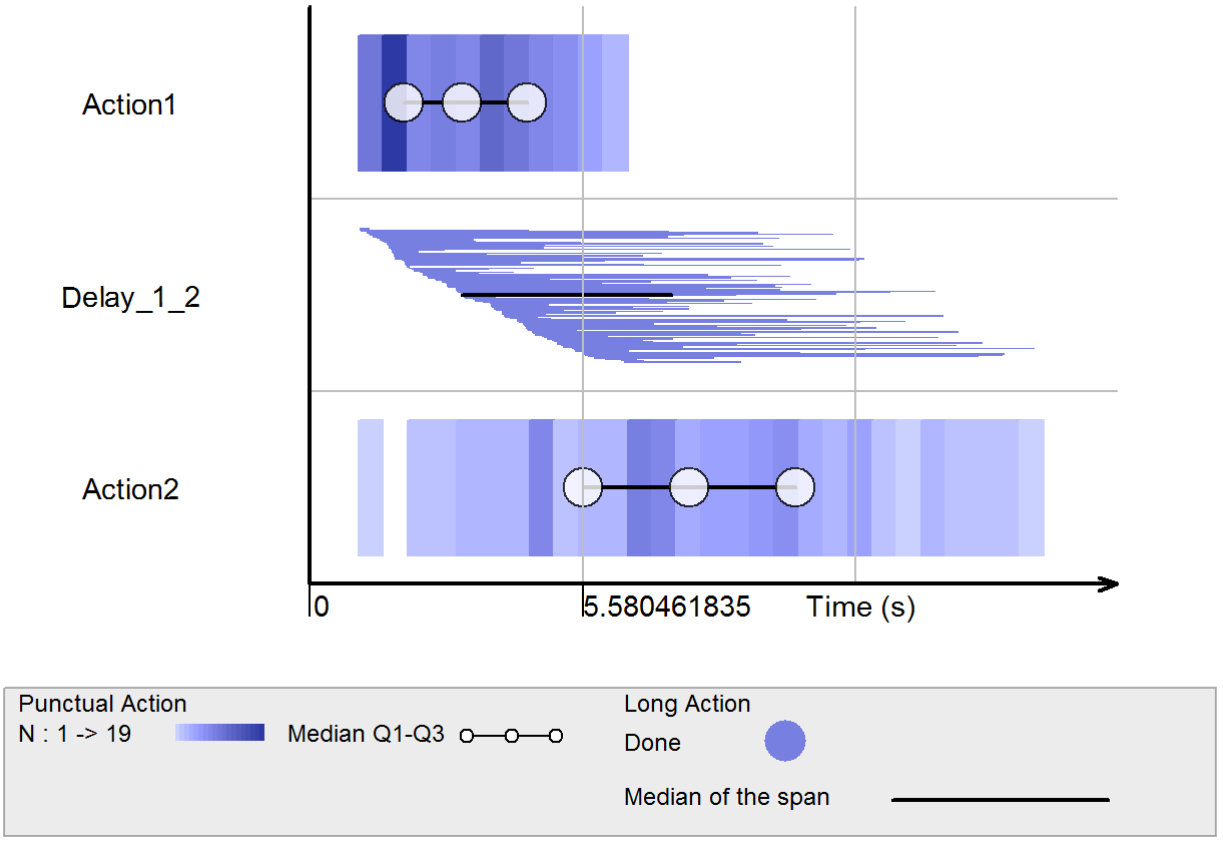
```
# Avec R directement sur les data
quantile(data[,3])
```

```
##        0%       25%       50%       75%      100%
##  1.227037  5.580462  7.755786  9.923738 14.825040
```

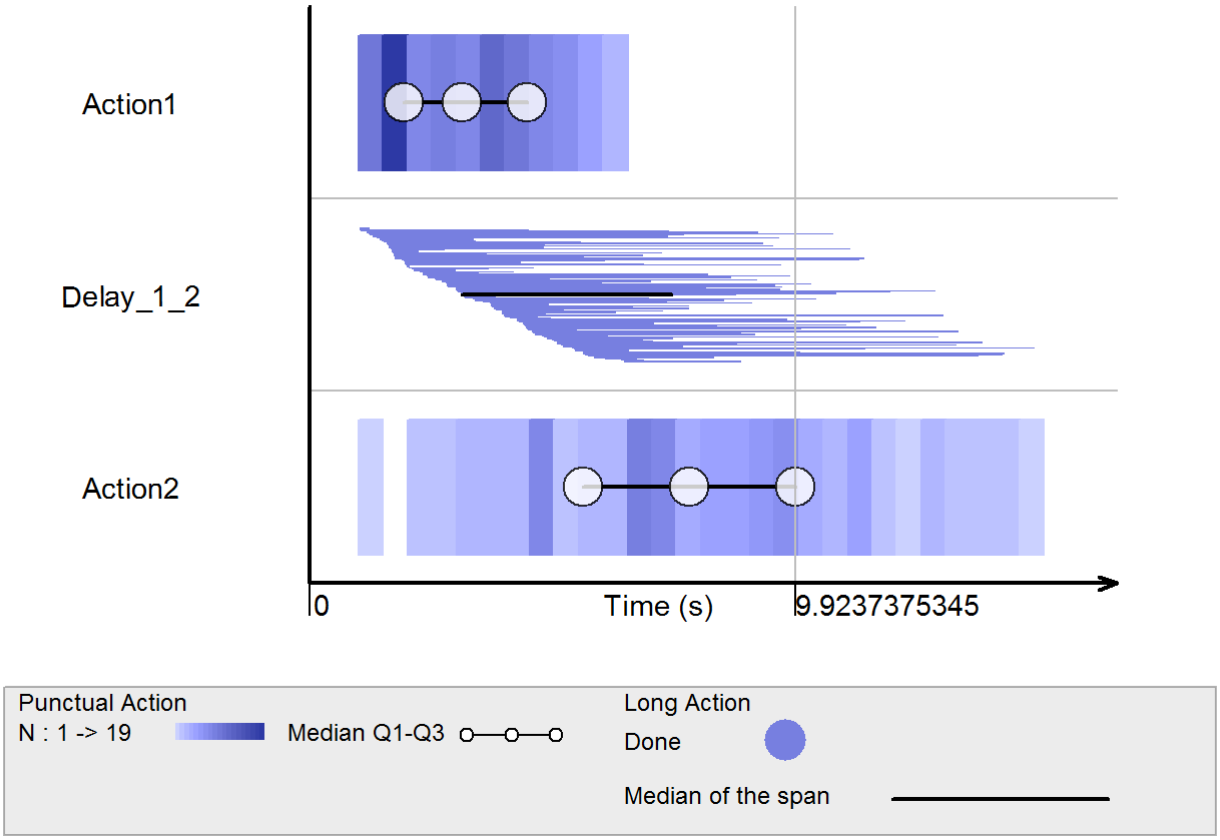
```
plot(vi, scal.unit.tps = quantile(data[,3])[3] )
```




```
plot(vi, scal.unit.tps = quantile(data[,3])[2] )
```



```
plot(vi, scal.unit.tps = quantile(data[,3])[4] )
```



Vérification delay 1-2

Mean

```
vi <- visielse( X=data, book=book, pixel= 0.5, informer="mean",doplot=FALSE)
```

```
## Warning in .local(.Object, ...): No green zone defined for punctuals actions
##
```

```
# Avec ViSiElse vie informers
vi@informers
```

```
##       Action1   Action2 span_Delay_1_2 plot_Delay_1_2
## [1,] 1.803259  4.844959       1.855481       3.658740
## [2,] 3.279048  7.964699       4.685651       7.964699
## [3,] 4.754837 11.084439       7.515821      12.270658
```

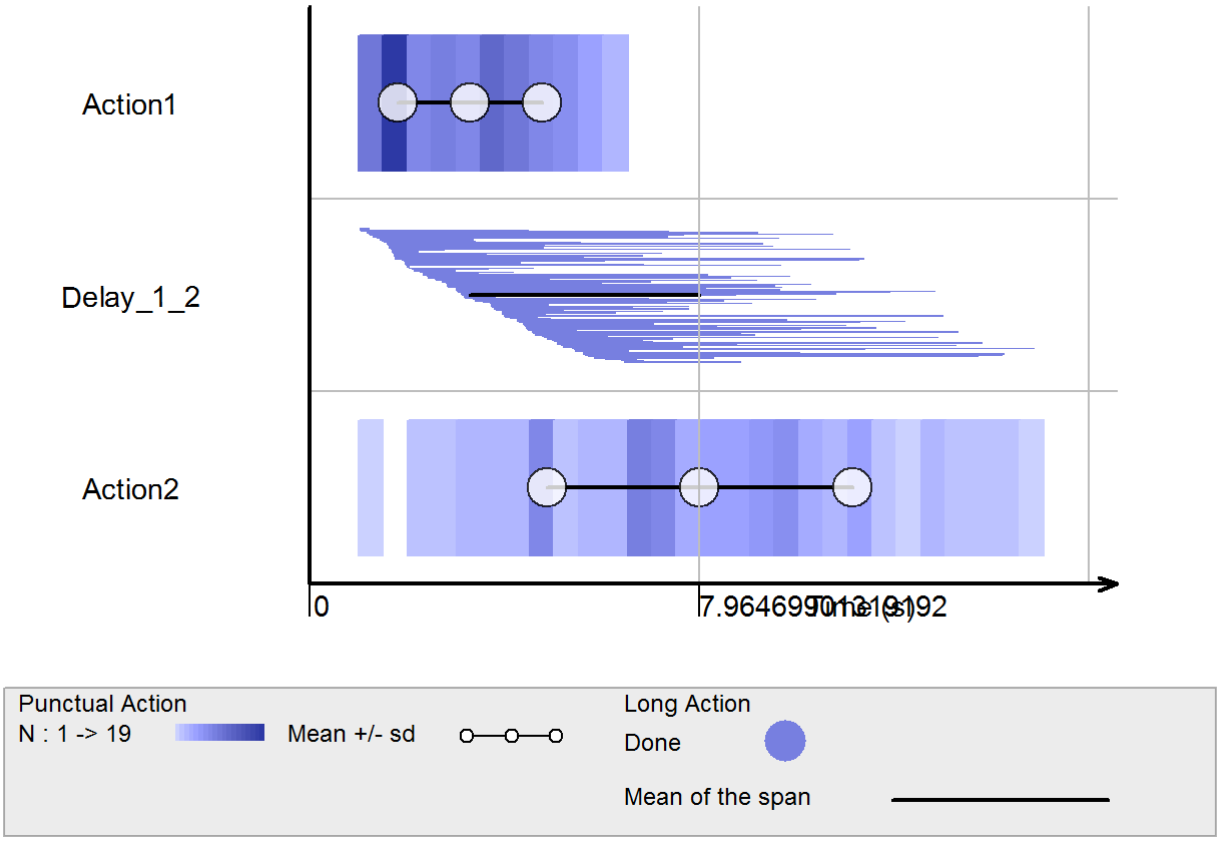
```
# Avec R directement sur les data
c(mean(data[,3]-data[,2]),
mean(data[,3]-data[,2]) - sqrt( var(data[,3]-data[,2])),
mean(data[,3]-data[,2]) + sqrt( var(data[,3]-data[,2])))
```

```
## [1] 4.685651 1.855481 7.515821
```

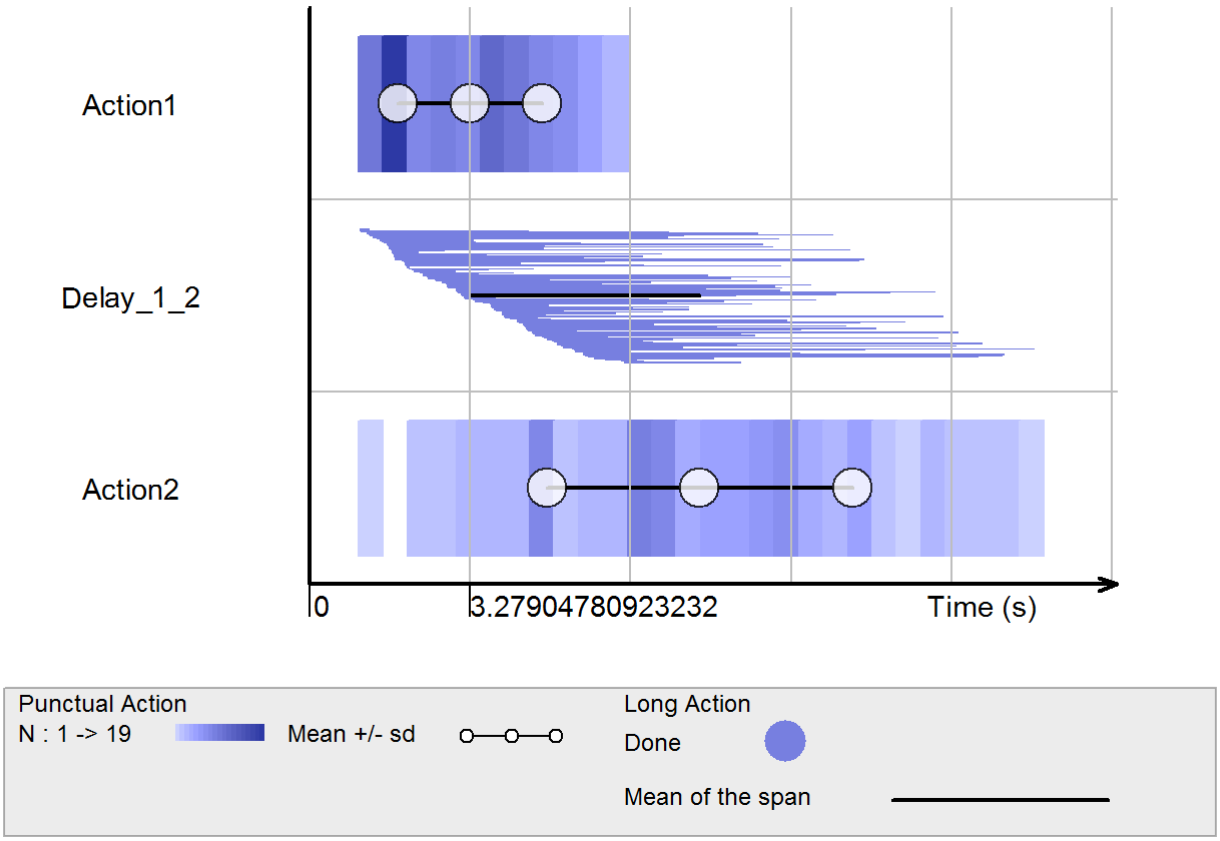
```
temp<- c(mean(data[,2]) + mean(data[,3]-data[,2]),
mean(data[,2]) - sqrt( var(data[,2])) + mean(data[,3]-data[,2]) - sqrt( var(data[,3]-
data[,2])),
mean(data[,2]) + sqrt( var(data[,2])) + mean(data[,3]-data[,2]) + sqrt( var(data[,3]-
data[,2])))
temp
```

```
## [1]  7.964699  3.658740 12.270658
```

```
plot(vi, scal.unit.tps =temp[1])
```




```
plot(vi, scal.unit.tps =mean(data[,2]))
```



Median

```
vi <- visielse( X=data, book=book, pixel= 0.5, informer="median",doplot=FALSE)
```

```
## Warning in .local(.Object, ...): No green zone defined for punctuals actions
##
```

```
# Avec ViSiElse vie informers
vi@informers
```

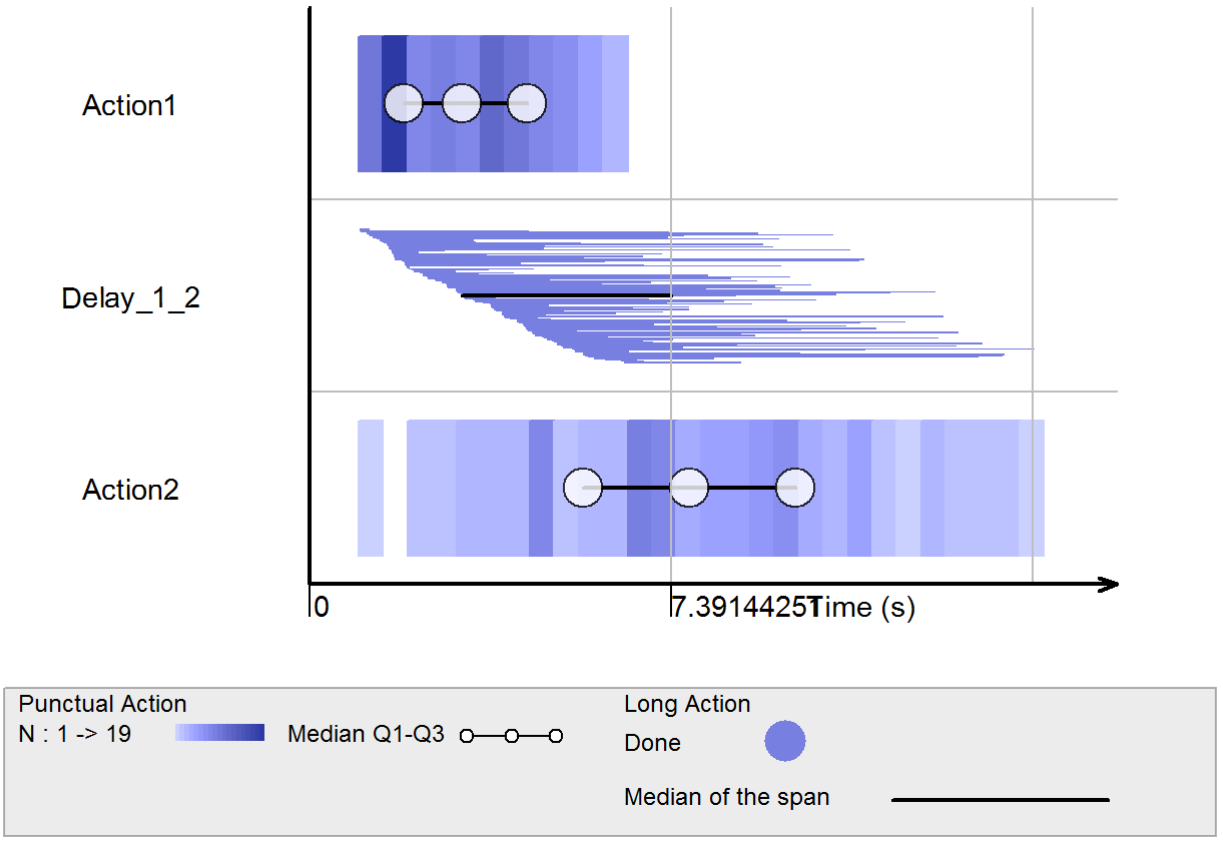
```
##      Action1  Action2 span_Delay_1_2 plot_Delay_1_2
## 25% 1.930244 5.580462       2.342347       4.272590
##     3.112271 7.755786       4.279171       7.391443
## 75% 4.437195 9.923738       7.079396      11.516591
```

```
# Avec R directement sur les data
quantile(data[,3] - data[,2])
```

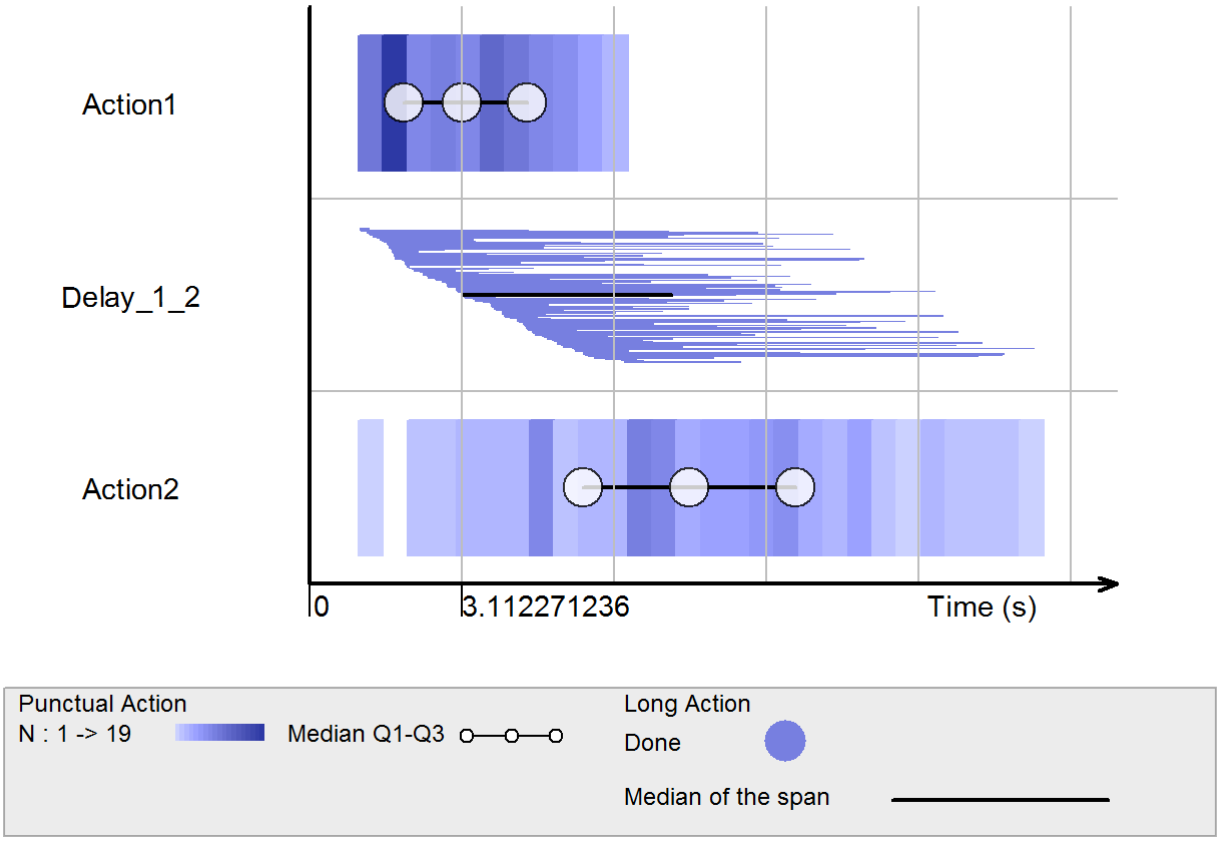
```
##         0%        25%        50%        75%       100%
## 0.04805669 2.34234692 4.27917127 7.07939566 9.77496765
```

```
temp <- quantile(data[,2]) + quantile(data[,3] - data[,2])

plot(vi, scal.unit.tps = temp[3] )
```




```
plot(vi, scal.unit.tps = quantile(data[,2])[3] )
```



Jeu de Données 2

Vérification Action1

Mean

```
vi <- visielse( X=data, book=book, pixel= 0.5, informer="mean",doplot=FALSE)
```

```
## Warning in .local(.Object, ...): No green zone defined for punctuals actions
##
```

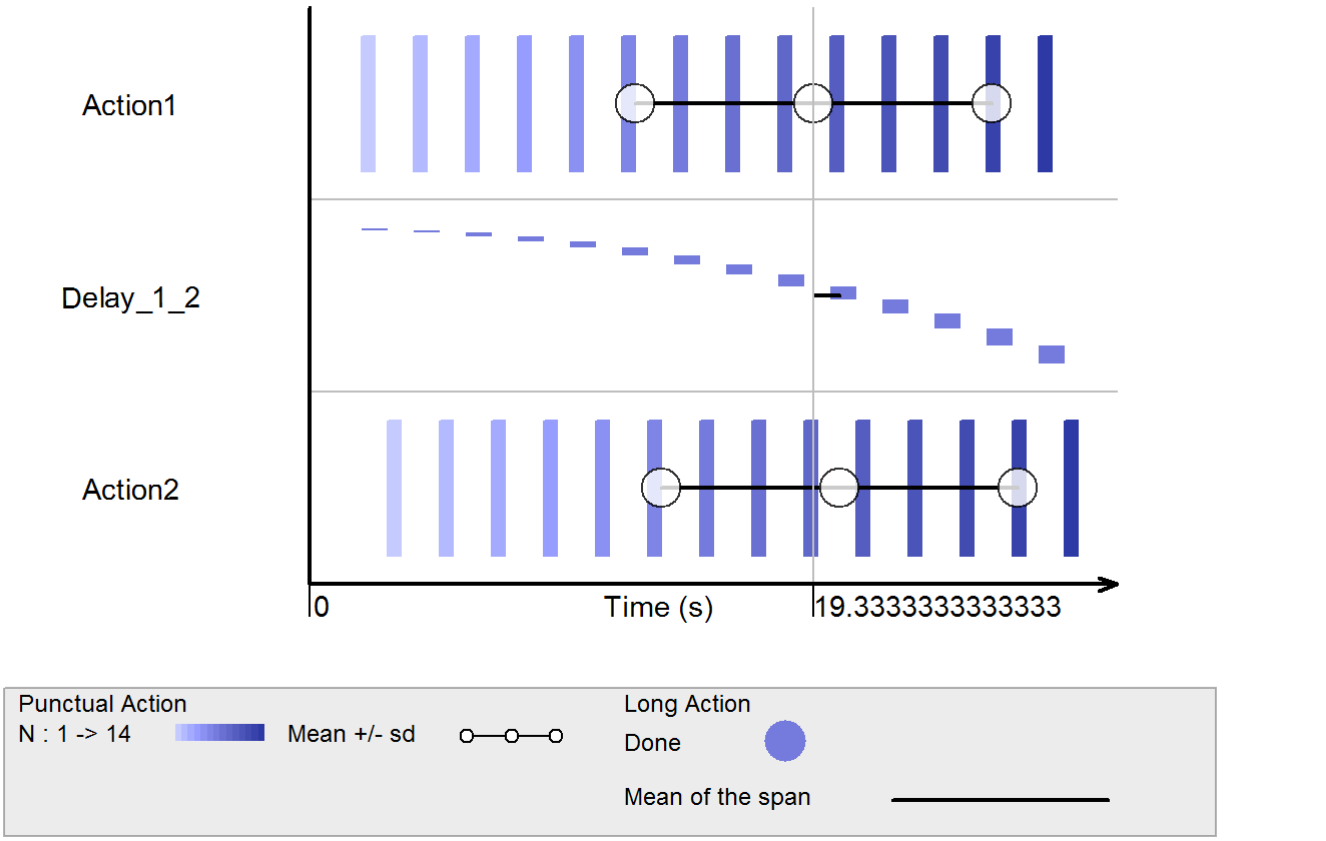
```
# Avec ViSiElse vie informers
vi@informers
```

```
##       Action1  Action2 span_Delay_1_2 plot_Delay_1_2
## [1,] 12.50203 13.50203              1       13.50203
## [2,] 19.33333 20.33333              1       20.33333
## [3,] 26.16463 27.16463              1       27.16463
```

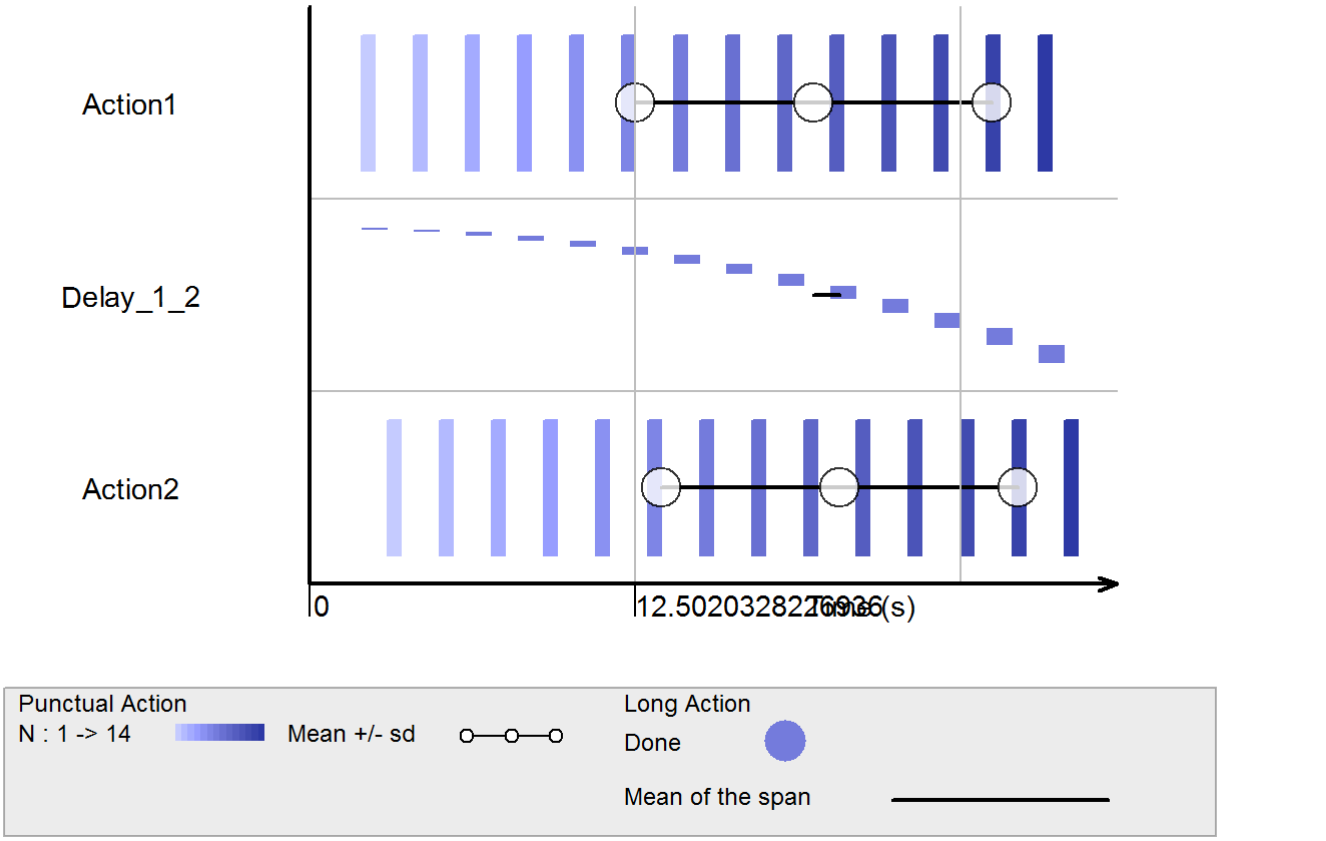
```
# Avec R directement sur les data
c(mean(data[,2]),
mean(data[,2]) - sqrt( var(data[,2])),
mean(data[,2]) + sqrt( var(data[,2])))
```

```
## [1] 19.33333 12.50203 26.16463
```

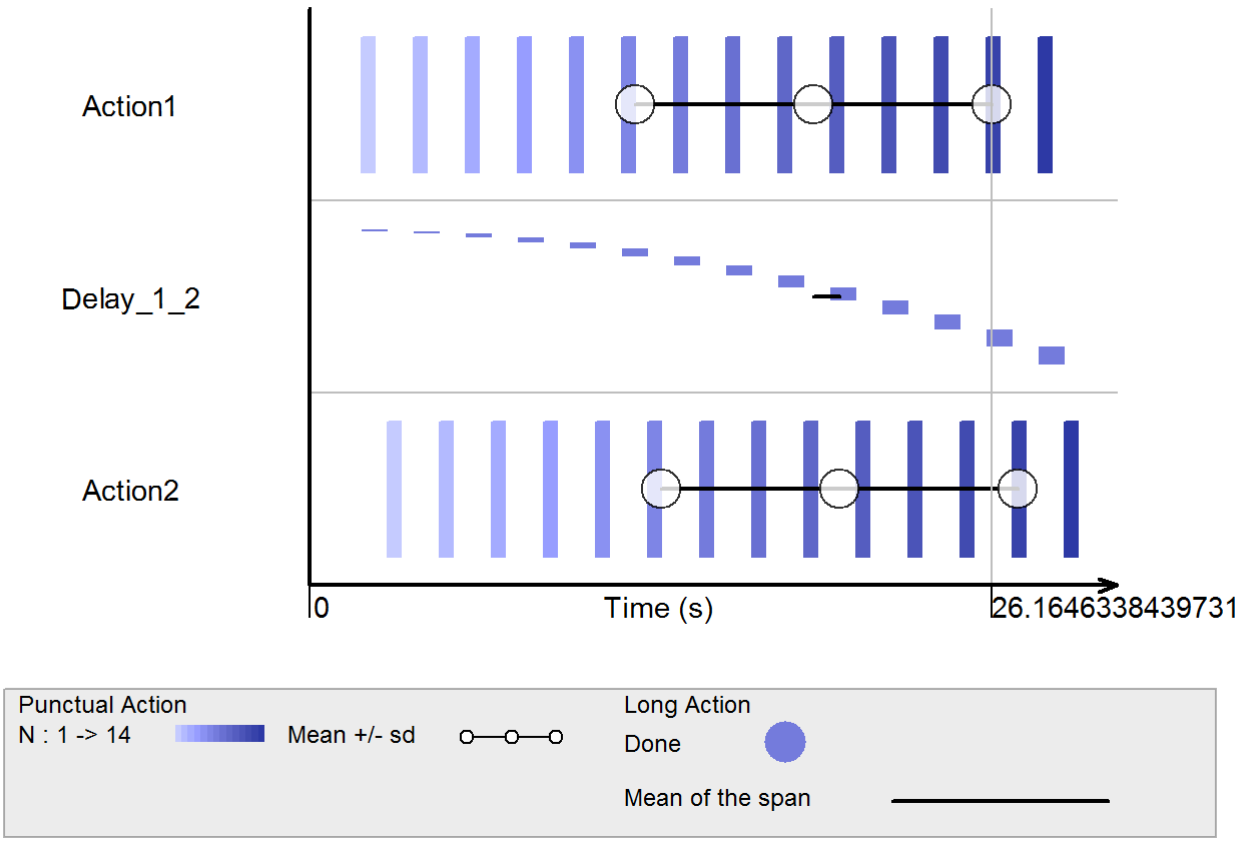
```
plot(vi, scal.unit.tps = mean(data[,2]))
```




```
plot(vi, scal.unit.tps = ( mean(data[,2]) - sqrt( var(data[,2])) ))
```



```
plot(vi, scal.unit.tps = ( mean(data[,2]) + sqrt( var(data[,2])) ) )
```



Median

```
vi <- visielse( X=data, book=book, pixel= 0.5, informer="median",doplot=FALSE)
```

```
## Warning in .local(.Object, ...): No green zone defined for punctuals actions
##
```

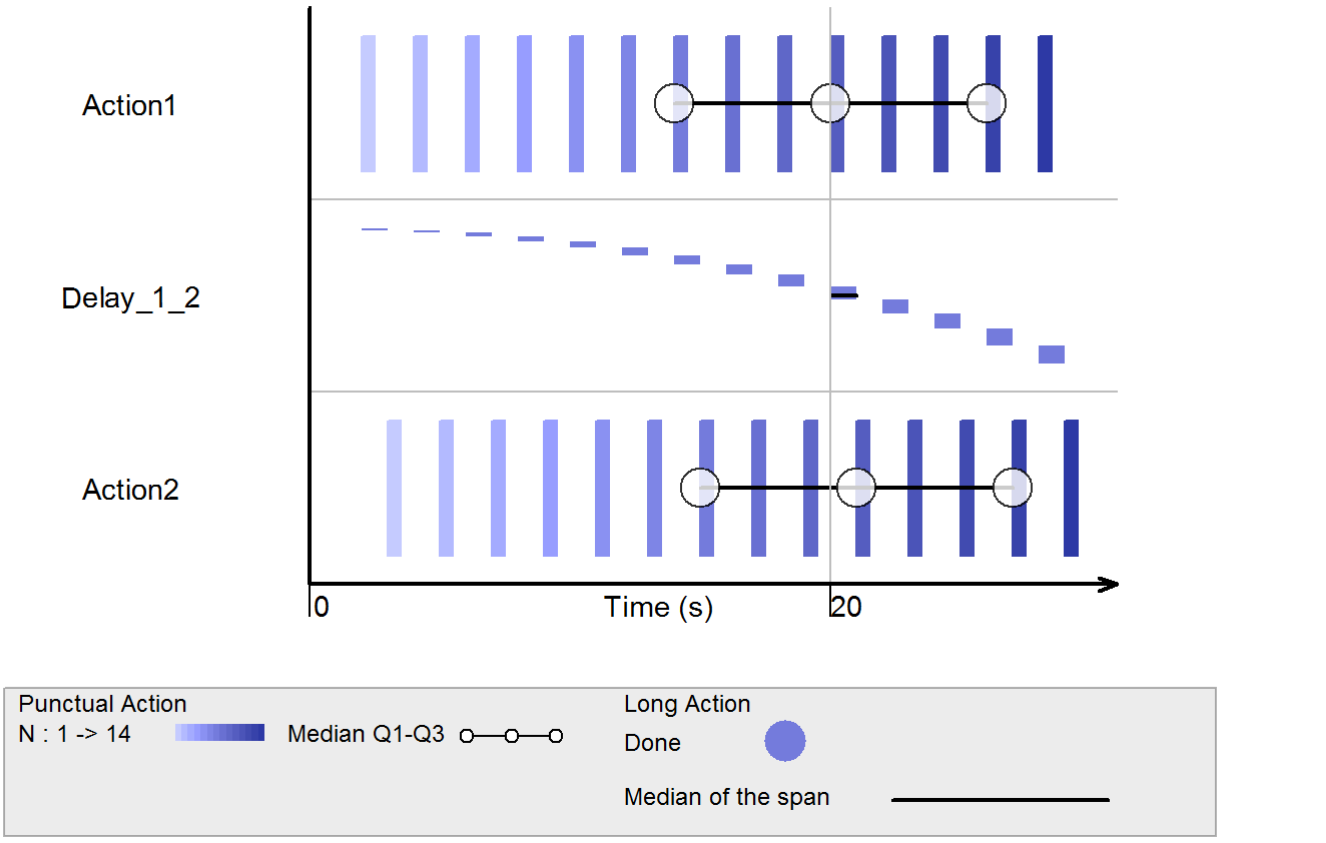
```
# Avec ViSiElse vie informers
vi@informers
```

```
##     Action1 Action2 span_Delay_1_2 plot_Delay_1_2
## 25%      14      15              1             15
##          20      21              1             21
## 75%      26      27              1             27
```

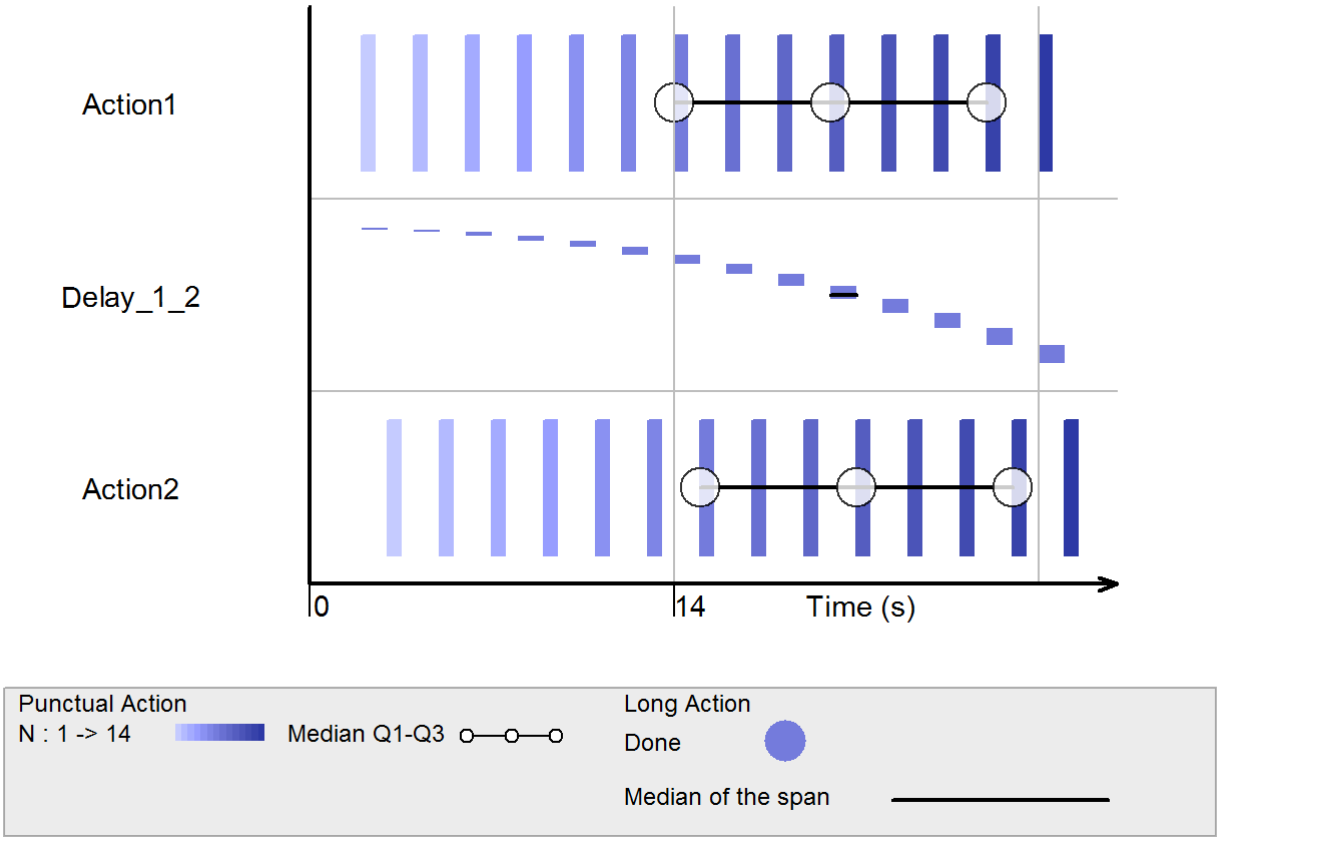
```
# Avec R directement sur les data
quantile(data[,2])
```

```
##   0%  25%  50%  75% 100%
##    2   14   20   26   28
```

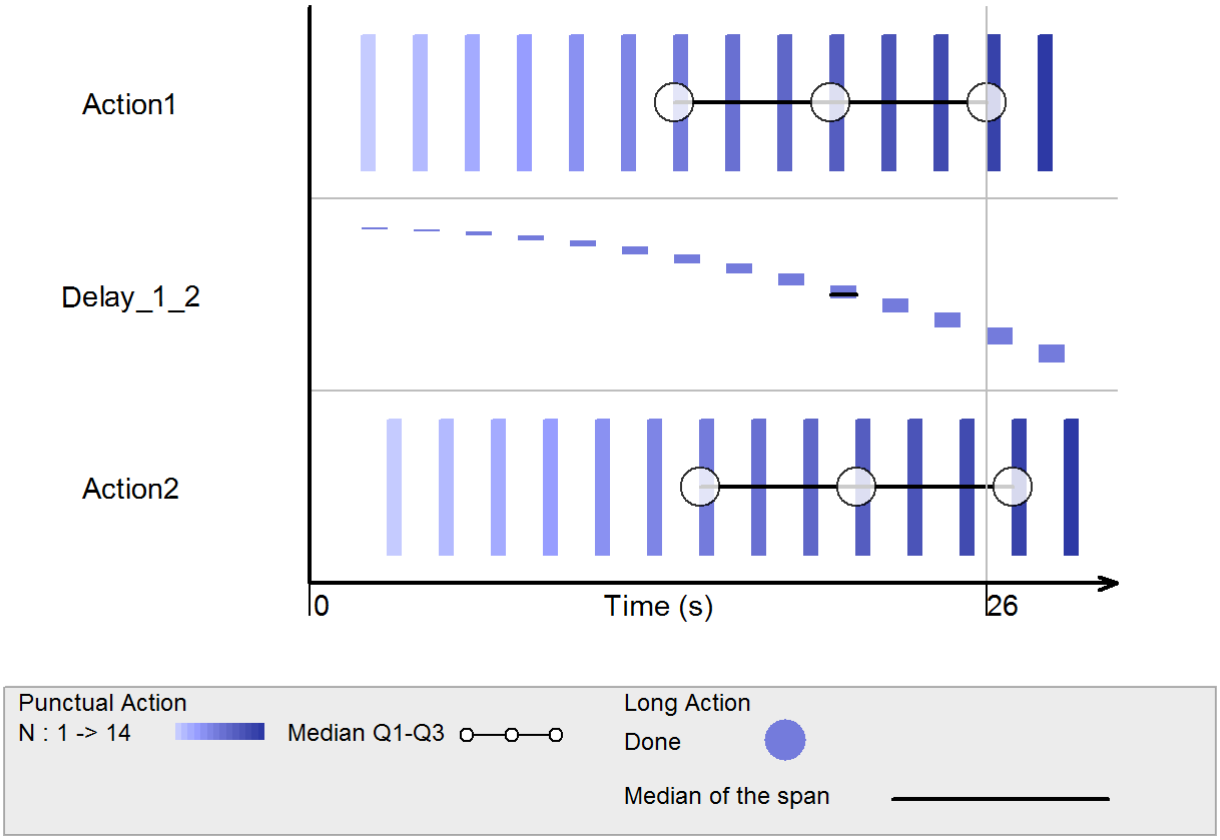
```
plot(vi, scal.unit.tps = quantile(data[,2])[3] )
```




```
plot(vi, scal.unit.tps = quantile(data[,2])[2] )
```



```
plot(vi, scal.unit.tps = quantile(data[,2])[4] )
```



Vérification Action 2

Mean

```
vi <- visielse( X=data, book=book, pixel= 0.5, informer="mean",doplot=FALSE)
```

```
## Warning in .local(.Object, ...): No green zone defined for punctuals actions
##
```

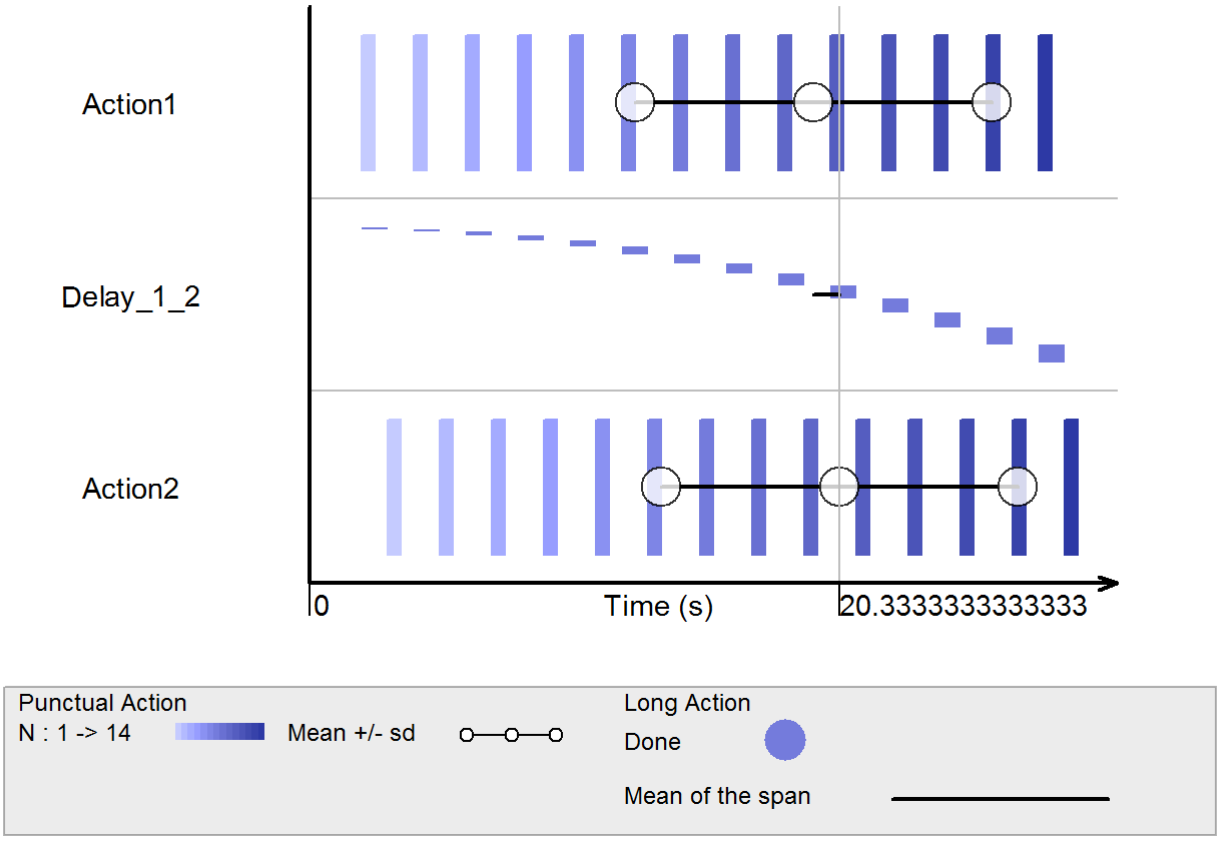
```
# Avec ViSiElse vie informers
vi@informers
```

```
##       Action1  Action2 span_Delay_1_2 plot_Delay_1_2
## [1,] 12.50203 13.50203              1       13.50203
## [2,] 19.33333 20.33333              1       20.33333
## [3,] 26.16463 27.16463              1       27.16463
```

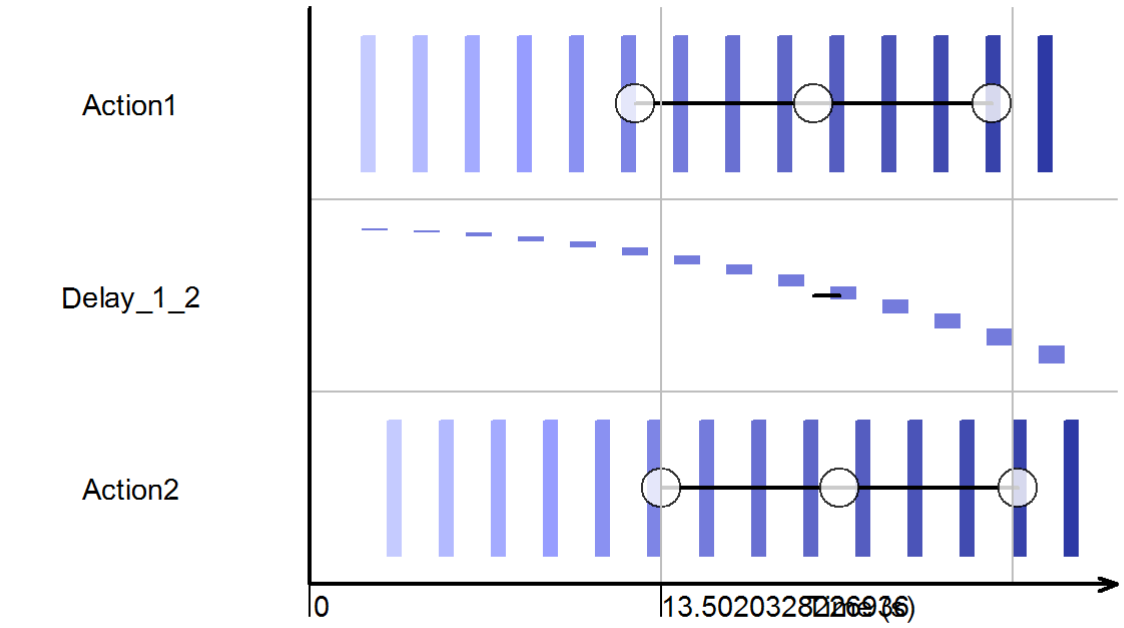
```
# Avec R directement sur les data
c(mean(data[,3]),
mean(data[,3]) - sqrt( var(data[,3])),
mean(data[,3]) + sqrt( var(data[,3])))
```

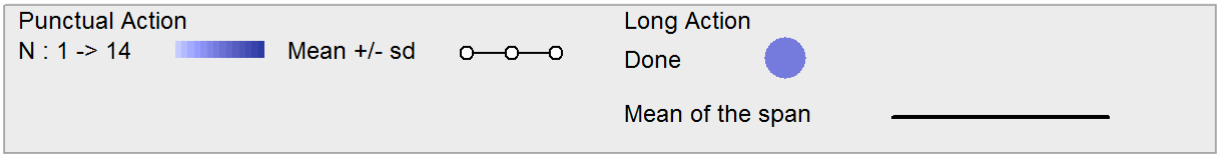
```
## [1] 20.33333 13.50203 27.16463
```

```
plot(vi, scal.unit.tps = mean(data[,3]))
```

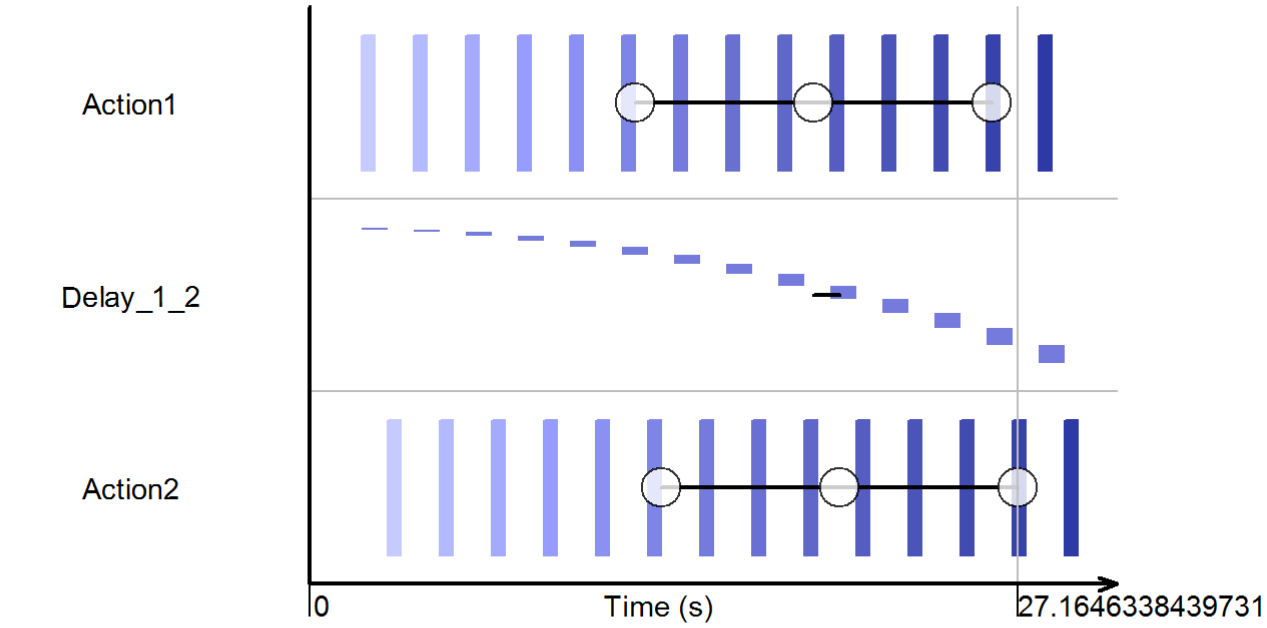


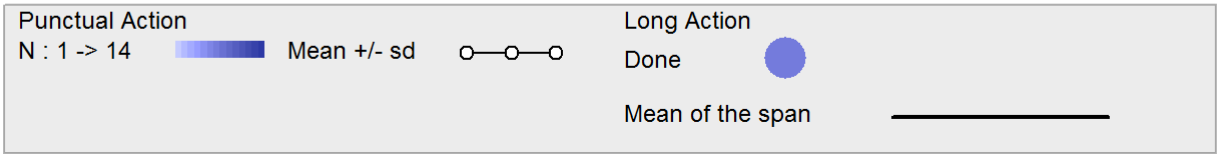

```
plot(vi, scal.unit.tps = ( mean(data[,3]) - sqrt( var(data[,3])) ))
```






```
plot(vi, scal.unit.tps = ( mean(data[,3]) + sqrt( var(data[,3])) ) )
```





Median

```
vi <- visielse( X=data, book=book, pixel= 0.5, informer="median",doplot=FALSE)
```

```
## Warning in .local(.Object, ...): No green zone defined for punctuals actions
##
```

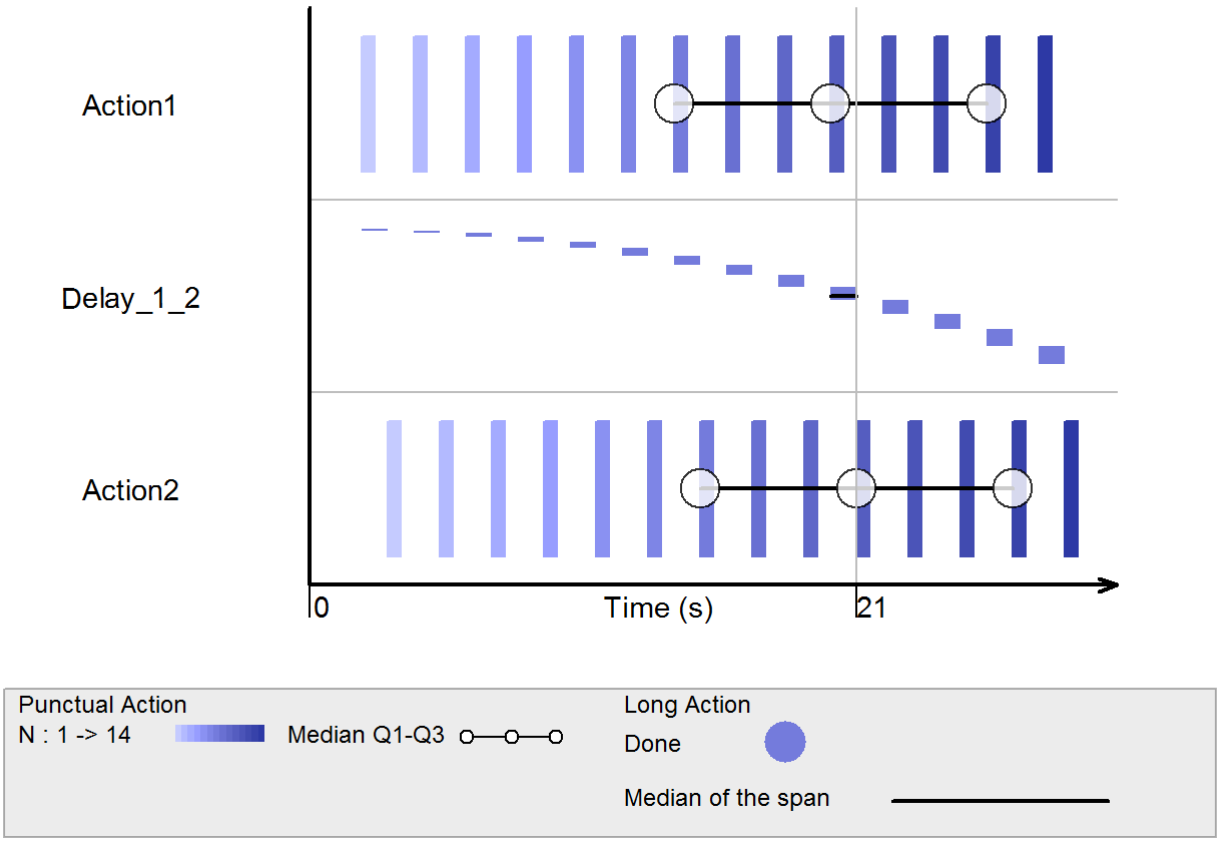
```
# Avec ViSiElse vie informers
vi@informers
```

```
##     Action1 Action2 span_Delay_1_2 plot_Delay_1_2
## 25%      14      15              1             15
##          20      21              1             21
## 75%      26      27              1             27
```

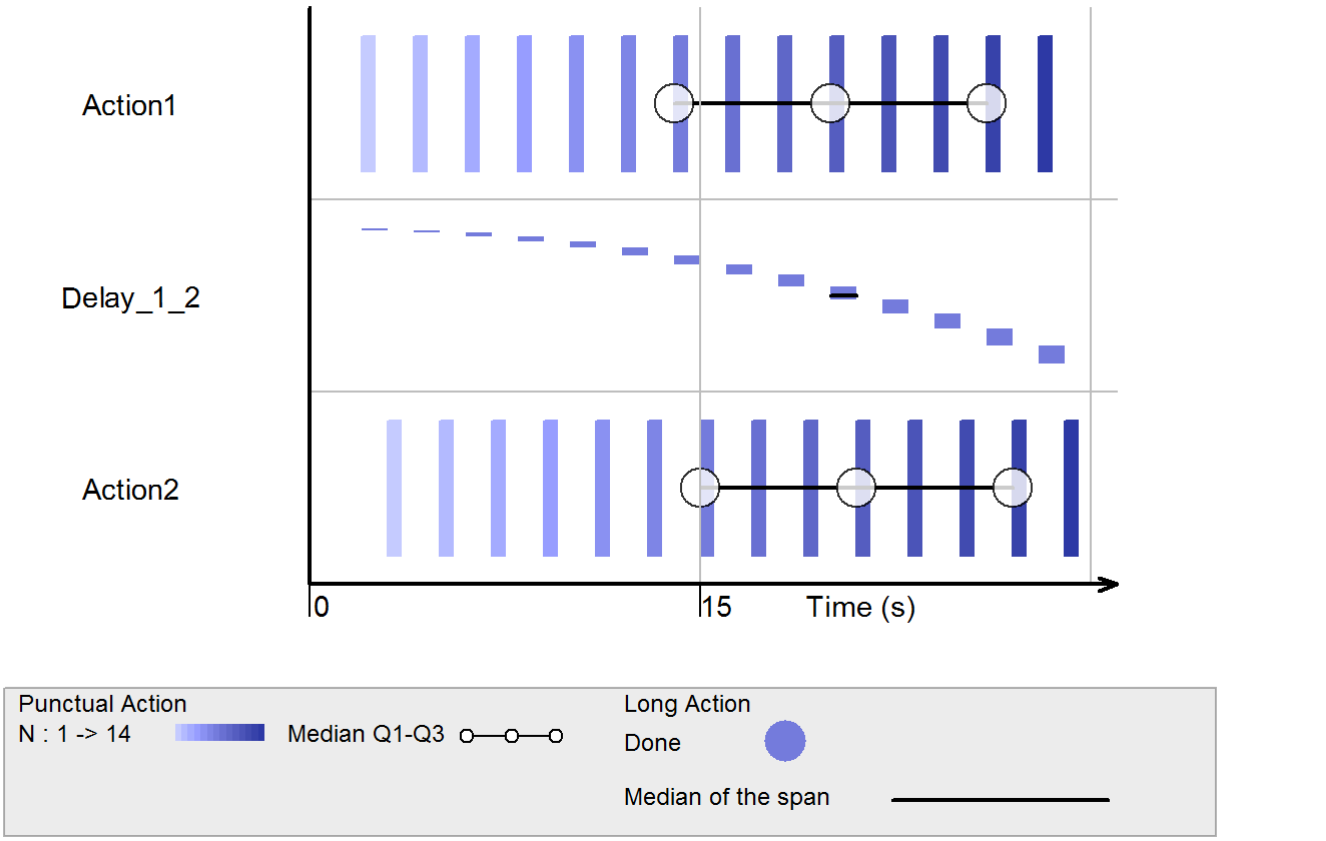
```
# Avec R directement sur les data
quantile(data[,3])
```

```
##   0%  25%  50%  75% 100%
##    3   15   21   27   29
```

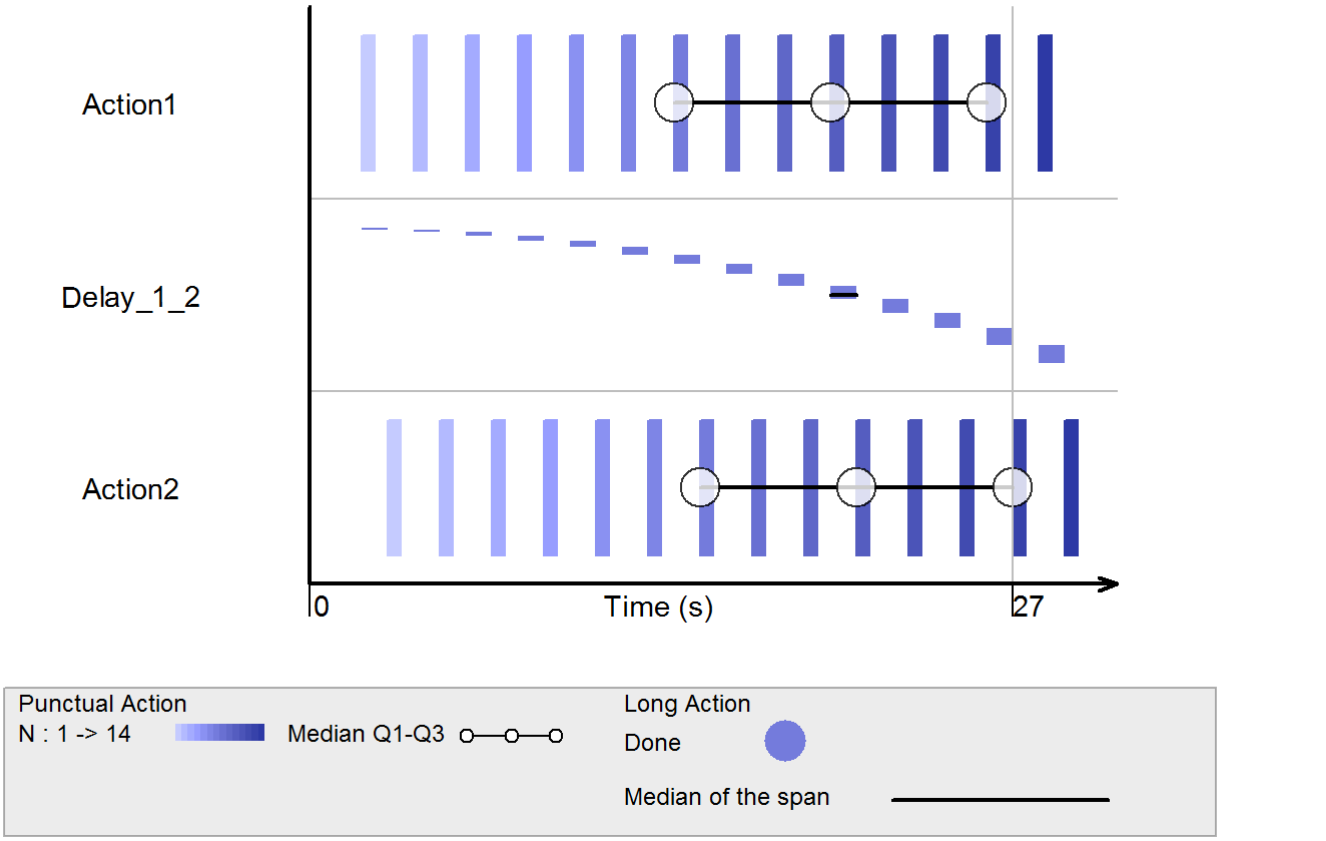
```
plot(vi, scal.unit.tps = quantile(data[,3])[3] )
```




```
plot(vi, scal.unit.tps = quantile(data[,3])[2] )
```




```
plot(vi, scal.unit.tps = quantile(data[,3])[4] )
```



Vérification delay 1-2

Mean

```
vi <- visielse( X=data, book=book, pixel= 0.5, informer="mean",doplot=FALSE)
```

```
## Warning in .local(.Object, ...): No green zone defined for punctuals actions
##
```

```
# Avec ViSiElse vie informers
vi@informers
```

```
##       Action1  Action2 span_Delay_1_2 plot_Delay_1_2
## [1,] 12.50203 13.50203              1       13.50203
## [2,] 19.33333 20.33333              1       20.33333
## [3,] 26.16463 27.16463              1       27.16463
```

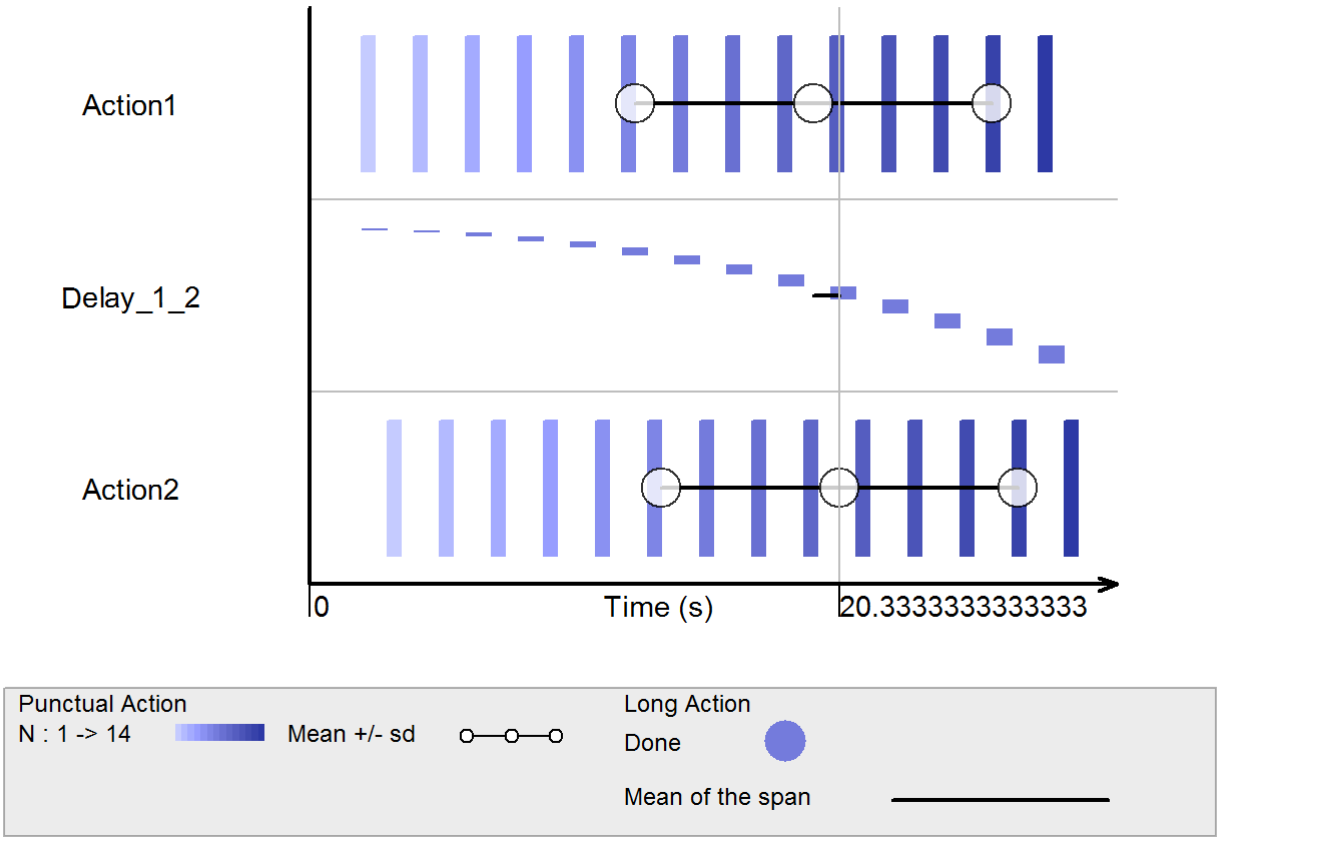
```
# Avec R directement sur les data
c(mean(data[,3]-data[,2]),
mean(data[,3]-data[,2]) - sqrt( var(data[,3]-data[,2])),
mean(data[,3]-data[,2]) + sqrt( var(data[,3]-data[,2])))
```

```
## [1] 1 1 1
```

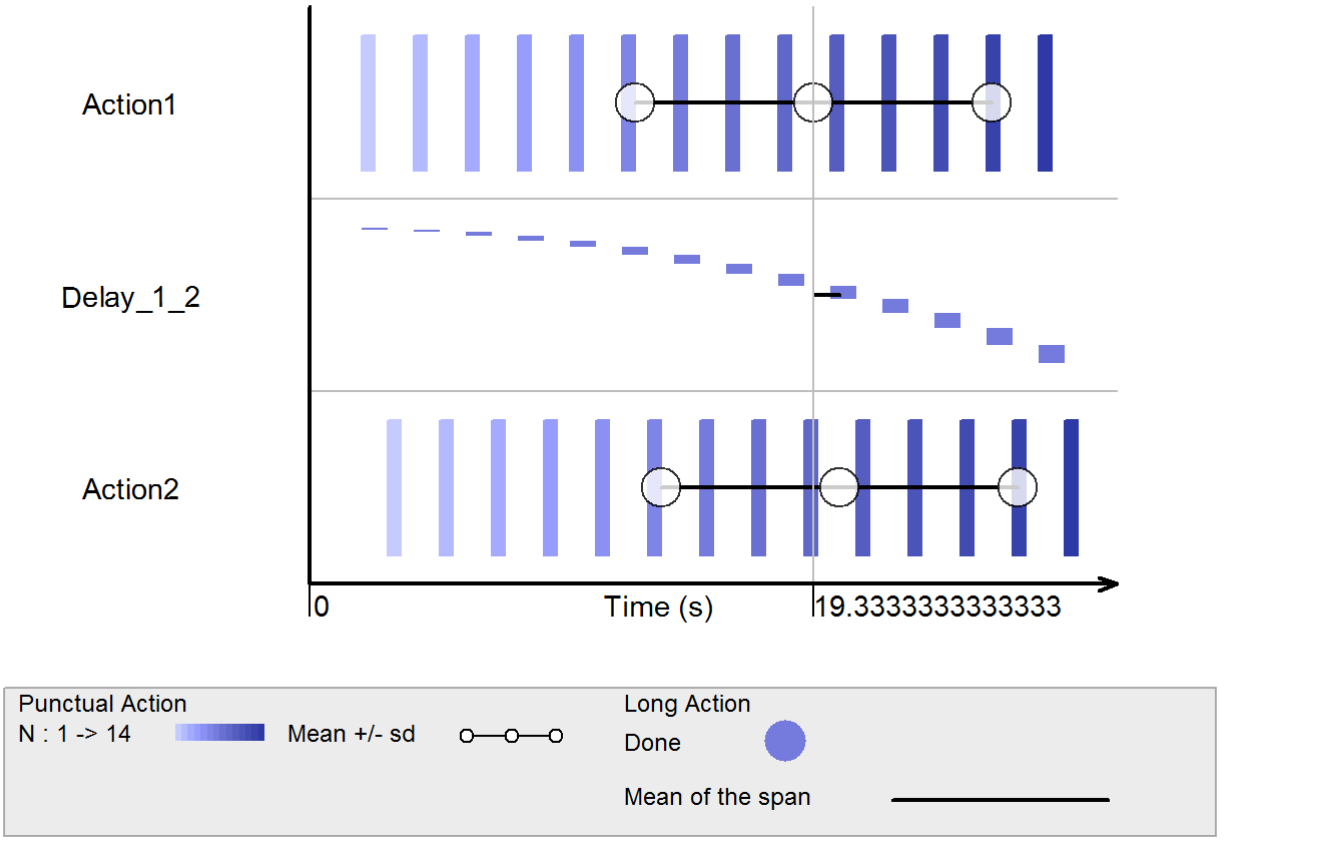
```
temp<- c(mean(data[,2]) + mean(data[,3]-data[,2]),
mean(data[,2]) - sqrt( var(data[,2])) + mean(data[,3]-data[,2]) - sqrt( var(data[,3]-
data[,2])),
mean(data[,2]) + sqrt( var(data[,2])) + mean(data[,3]-data[,2]) + sqrt( var(data[,3]-
data[,2])))
temp
```

```
## [1] 20.33333 13.50203 27.16463
```

```
plot(vi, scal.unit.tps =temp[1])
```




```
plot(vi, scal.unit.tps =mean(data[,2]))
```



Median

```
vi <- visielse( X=data, book=book, pixel= 0.5, informer="median",doplot=FALSE)
```

```
## Warning in .local(.Object, ...): No green zone defined for punctuals actions
##
```

```
# Avec ViSiElse vie informers
vi@informers
```

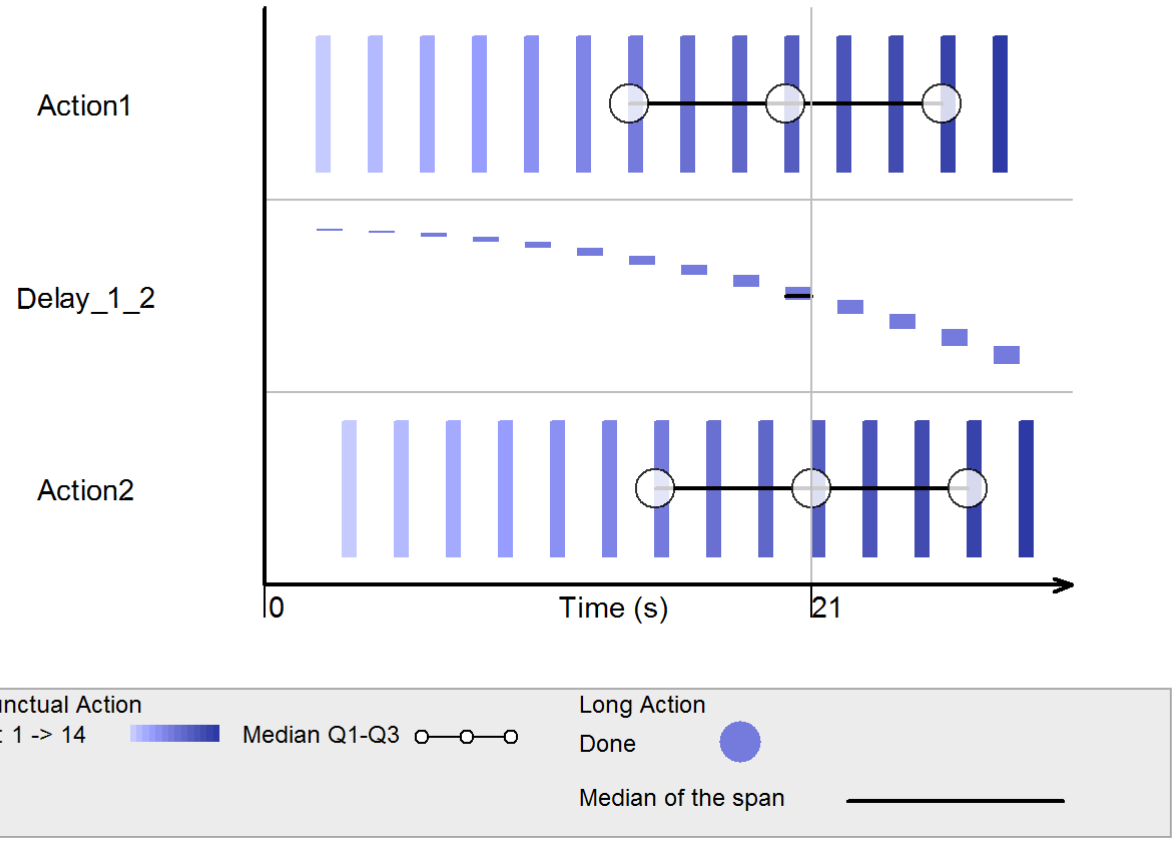
```
##     Action1 Action2 span_Delay_1_2 plot_Delay_1_2
## 25%      14      15              1             15
##          20      21              1             21
## 75%      26      27              1             27
```

```
# Avec R directement sur les data
quantile(data[,3] - data[,2])
```

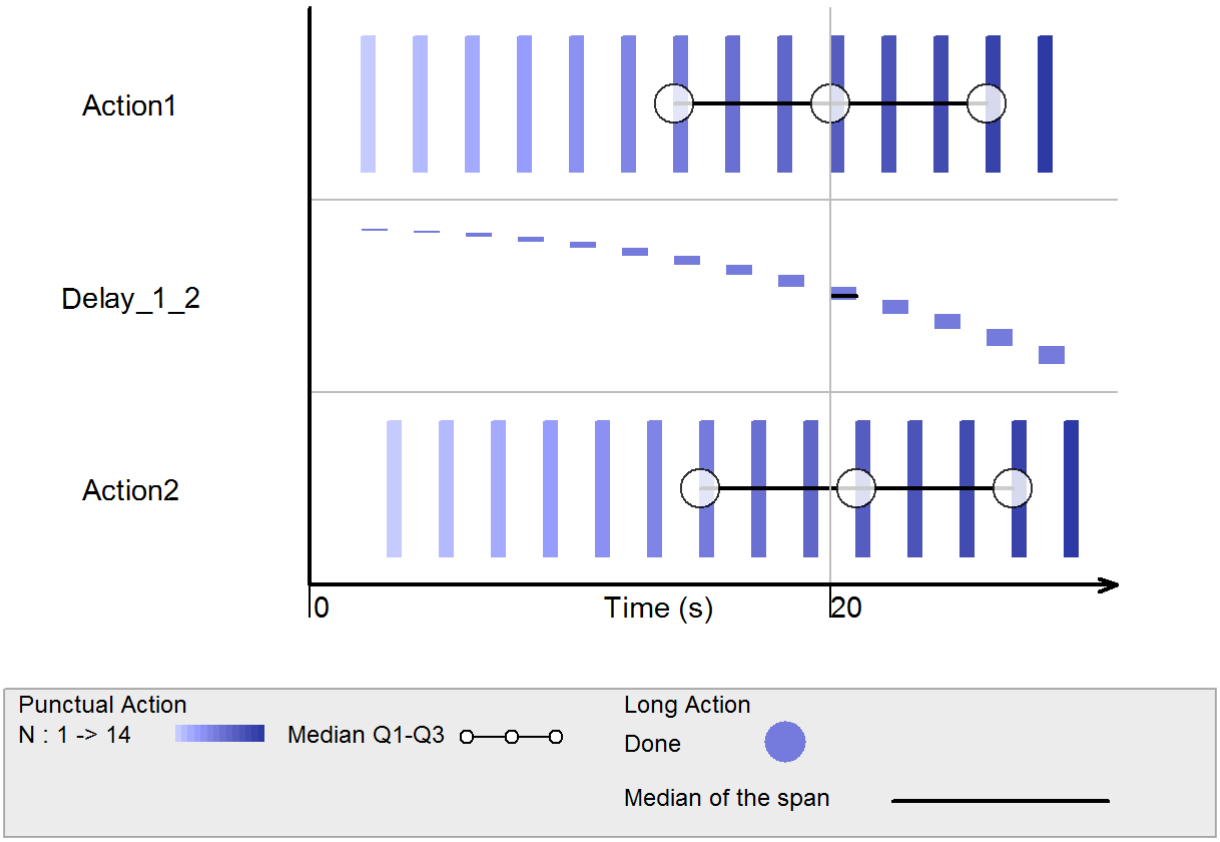
```
##   0%  25%  50%  75% 100%
##    1    1    1    1    1
```

```
temp <- quantile(data[,2]) + quantile(data[,3] - data[,2])

plot(vi, scal.unit.tps = temp[3] )
```




```
plot(vi, scal.unit.tps = quantile(data[,2])[3] )
```


Action1
Delay_1_2
Action2
0
Time (s)
20
Punctual Action
N : 1 -> 14
Median Q1-Q3
Long Action
Done
Median of the span