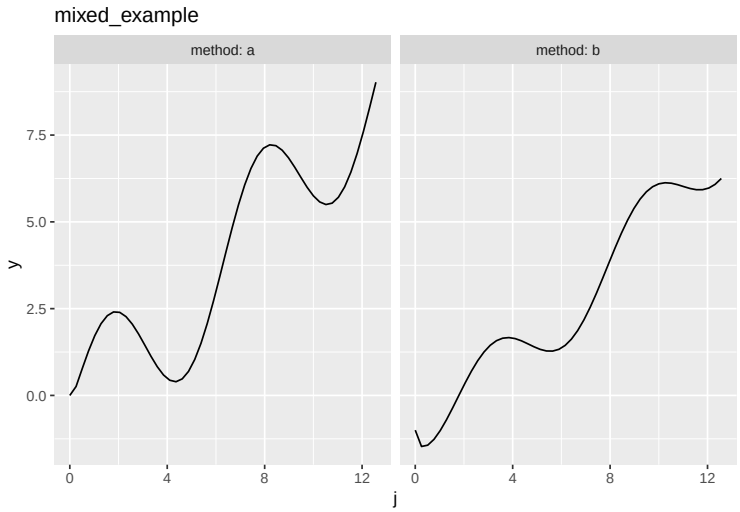
MBO

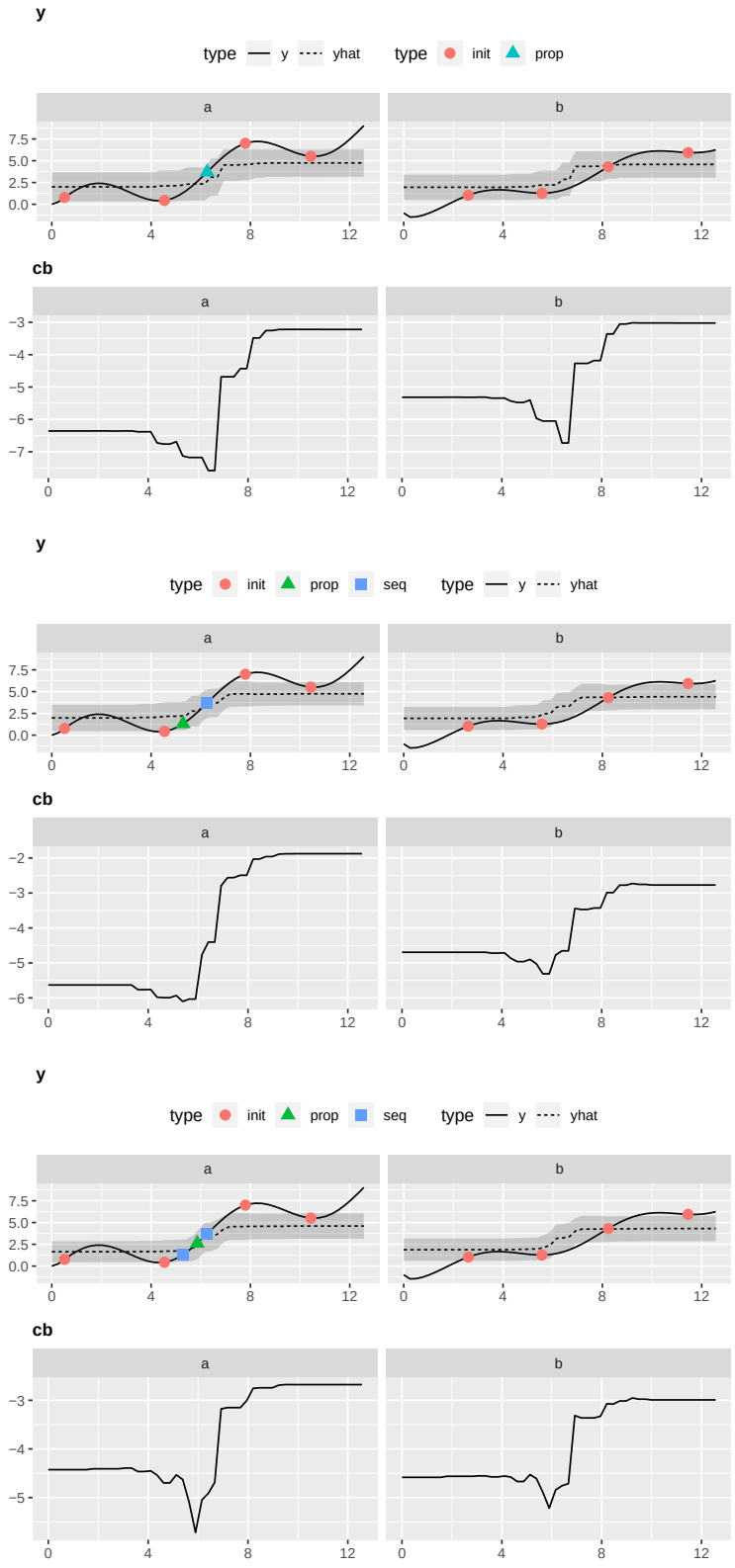
Funkcja celu

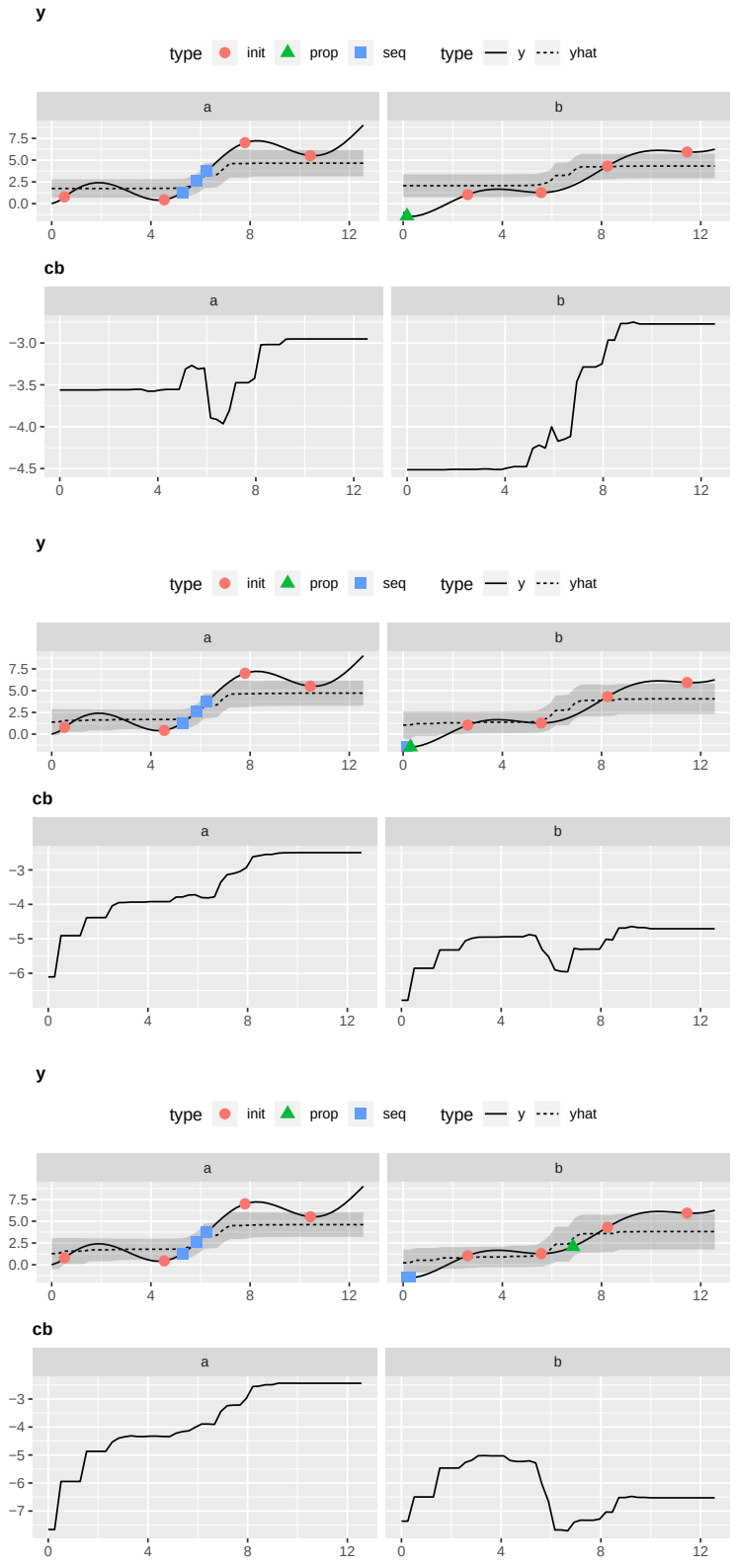


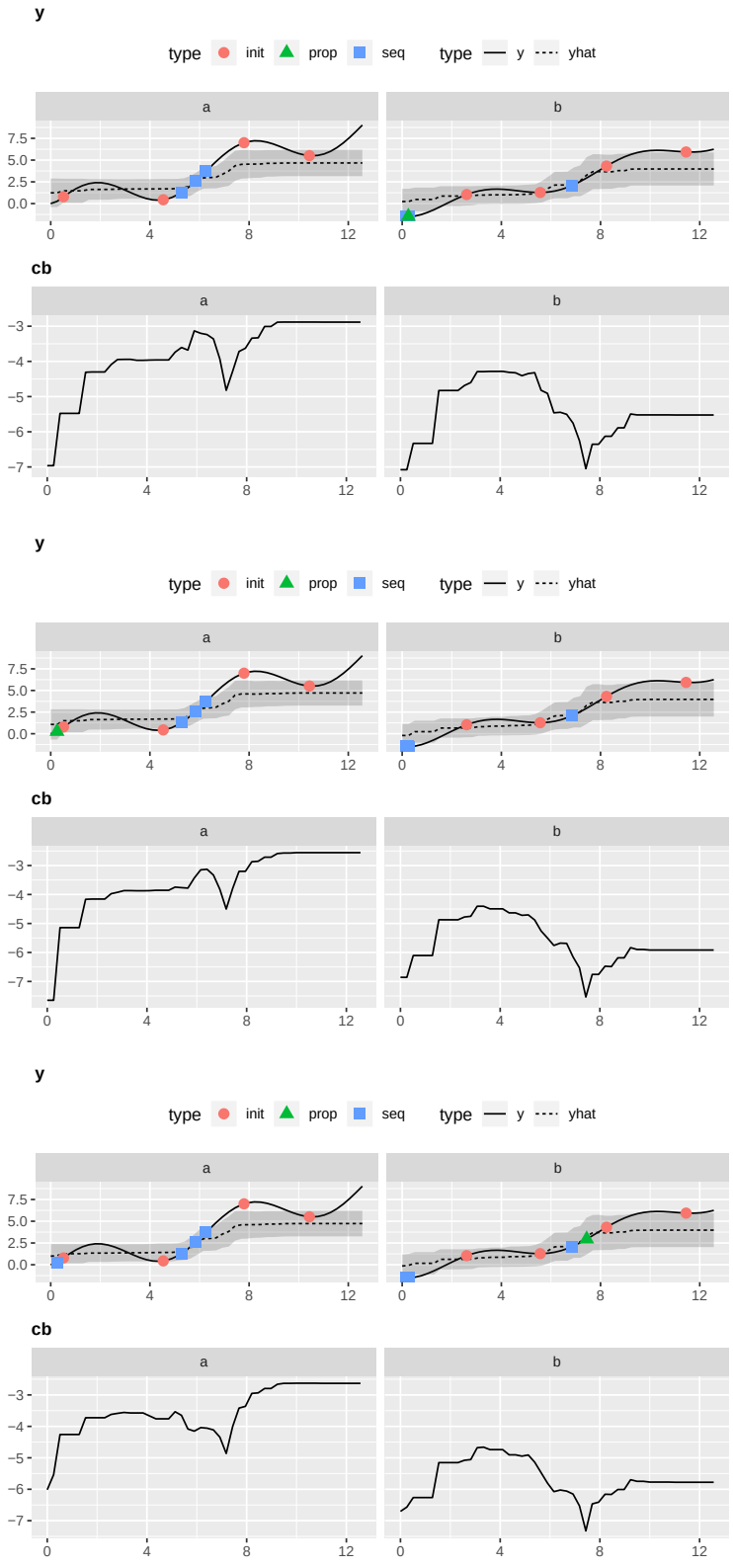
Optymalizacja

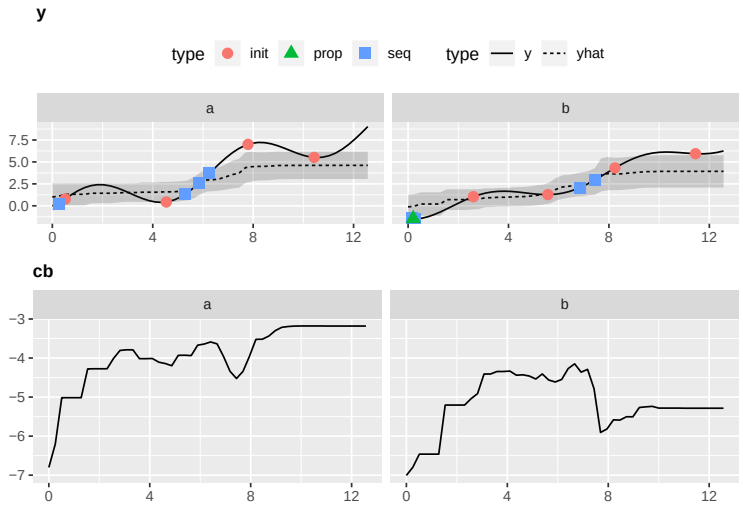
```
mlr::configureMlr(show.info = FALSE, show.learner.output = FALSE,
                  on.learner.warning = "quiet")
run2 = mbo(objfun2, design = design2, learner = surr.rf, control = control2,
           show.info = TRUE)

## [mbo] 0: j=8.24; method=b : y = 4.31 : 0.0 secs : initdesign
## [mbo] 0: j=0.515; method=a : y = 0.783 : 0.0 secs : initdesign
## [mbo] 0: j=4.54; method=a : y = 0.438 : 0.0 secs : initdesign
## [mbo] 0: j=10.4; method=a : y = 5.51 : 0.0 secs : initdesign
## [mbo] 0: j=2.6; method=b : y = 1.04 : 0.0 secs : initdesign
## [mbo] 0: j=5.57; method=b : y = 1.27 : 0.0 secs : initdesign
## [mbo] 0: j=11.4; method=b : y = 5.94 : 0.0 secs : initdesign
## [mbo] 0: j=7.8; method=a : y = 7 : 0.0 secs : initdesign
## [mbo] 1: j=6.31; method=a : y = 3.86 : 0.0 secs : infill_cb
## [mbo] 2: j=5.66; method=a : y = 2.11 : 0.0 secs : infill_cb
## [mbo] 3: j=5.96; method=a : y = 2.88 : 0.0 secs : infill_cb
## [mbo] 4: j=6.88; method=b : y = 2.12 : 0.0 secs : infill_cb
## [mbo] 5: j=7.39; method=b : y = 2.87 : 0.0 secs : infill_cb
## [mbo] 6: j=7.65; method=b : y = 3.3 : 0.0 secs : infill_cb
## [mbo] 7: j=7.7; method=a : y = 6.91 : 0.0 secs : infill_cb
## [mbo] 8: j=4.13; method=a : y = 0.428 : 0.0 secs : infill_cb
## [mbo] 9: j=7.38; method=a : y = 6.45 : 0.0 secs : infill_cb
```

Wizualizacja




y
type
init
prop
seq
type
y
yhat
a
b
7.5
5.0
2.5
0.0
0
4
8
12
cb
−3.0
−3.5
−4.0
−4.5
y
type
init
prop
seq
type
y
yhat
a
b
cb
−3
−4
−5
−6
y
type
init
prop
seq
type
y
yhat
a
b
cb
−7


y
type
init
prop
seq
type
y
yhat
a
b
7.5
5.0
2.5
0.0
0
4
8
12
cb
−3
−4
−5
−6
−7


y
type
init
prop
seq
type
y
yhat
a
b
7.5
5.0
2.5
0.0
0
4
8
12
cb
a
b
−3
−4
−5
−6
−7
0
4
8
12