DGP Variations

For Loop Over DGPs

- ## [1] "aa_high_acf_loading_shift"
- ## [1] "aa_high_acf"

Bias by Method: aa_high_acf_loading_shift **Gsynth Bias SCDID Bias** SE 0.75 - 0.50 - 0.25 - 0.00 - 0.20 - 10 Tir ATT Bias 0.4 -0.2 -0.0 -Estimate Estimate True True 10 10 -10 20 30 20 -20 Ö Ö 30 Time Period Time Period MC Bias Causal Impact Bias S 0.9 -O.0 - **ATT Bias** 0.50 -Estimate Estimate 0.25 -0.00 True True -20 -10 0 10 20 10 20 30 30 Ö Time Period Time Period **Ensemble Bias** V 0.8 - 0.6 - 0.6 - 0.2 - 0.0 Estimate

Notes:

True

20

30

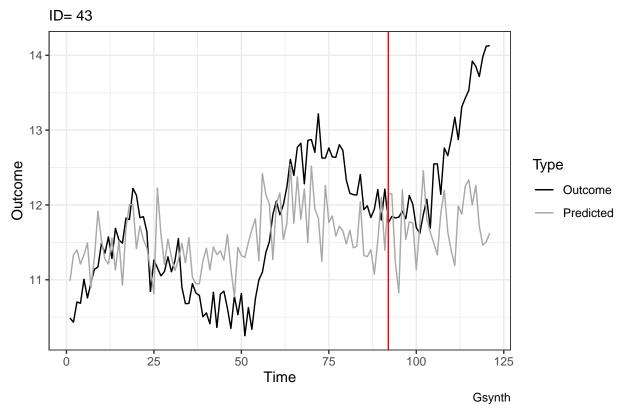
10

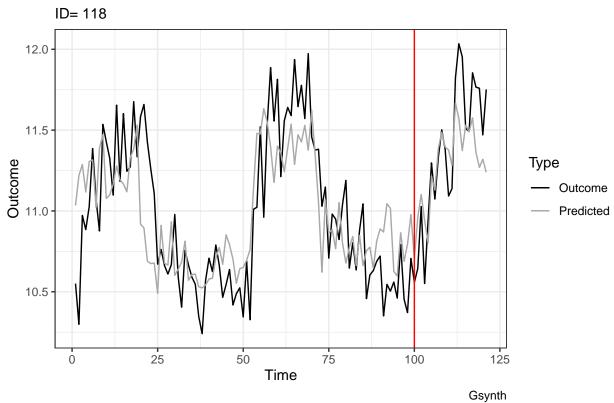
-10

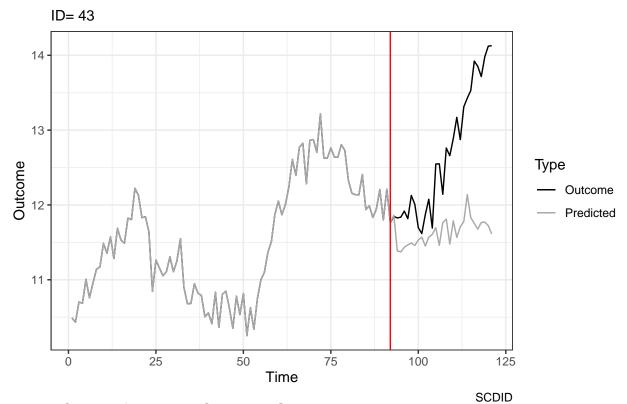
Ö

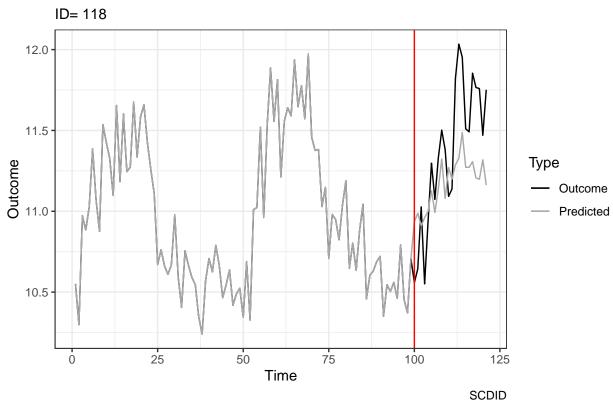
Time Period

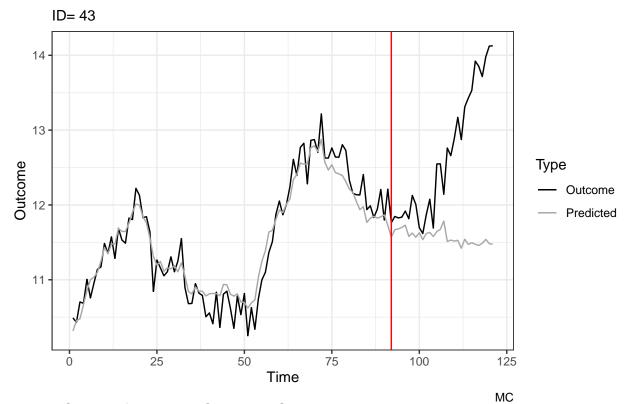
-**2**0

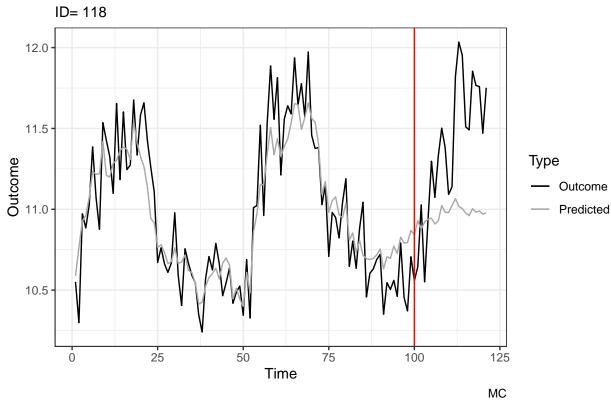


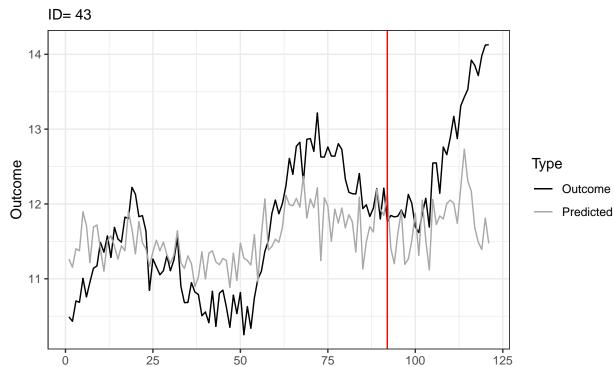






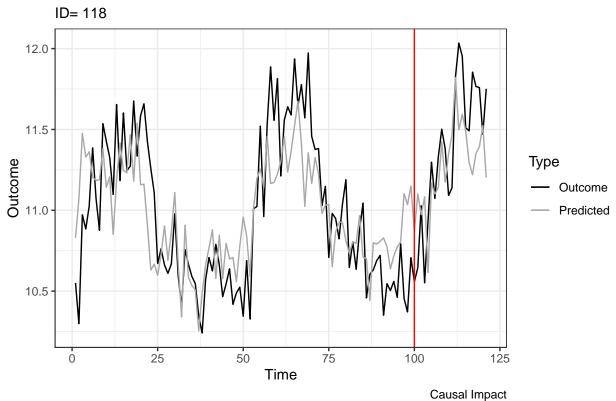


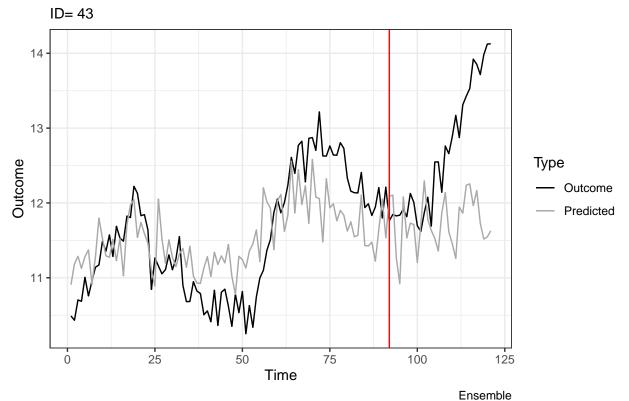




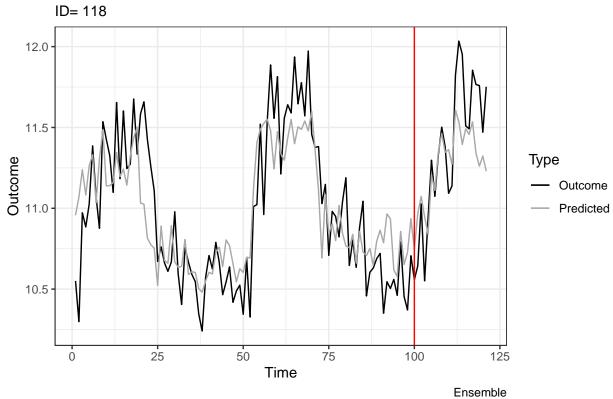
Time

Causal Impact





Counterfactual vs Outcome Series



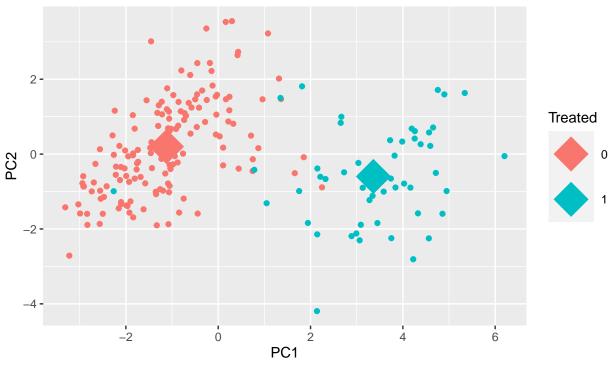
Registered S3 method overwritten by 'quantmod':

method from
as.zoo.data.frame zoo

`summarise()` ungrouping output (override with `.groups` argument)

Scatter Plot of First 2 PC by Treatment

Centroids have L2 dist: 20.7295



aa_high_acf_loading_shift

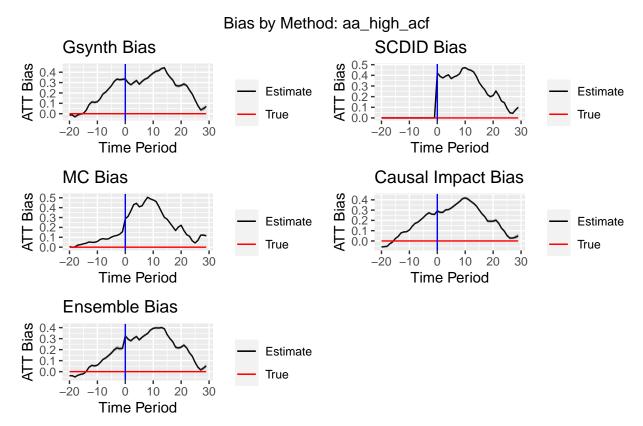
## #	## # A tibble: 9 x 11									
##	vars	.у.	group1	group2	n1	n2	${\tt statistic}$	df	p	p.adj
##	<chr></chr>	<chr></chr>	<chr></chr>	<chr></chr>	<int></int>	<int></int>	<dbl></dbl>	<dbl></dbl>	<dbl></dbl>	<dbl></dbl>
## 1	curv~	val	0	1	150	50	-5.15	65.8	2.53e- 6	3.25e- 6
## 2	diff~	val	0	1	150	50	-8.91	74.6	2.30e-13	4.14e-13
## 3	diff~	val	0	1	150	50	-3.36	81.6	1.19e- 3	1.19e- 3
## 4	e_ac~	val	0	1	150	50	-4.47	92.4	2.24e- 5	2.52e- 5
## 5	entr~	val	0	1	150	50	15.2	50.2	1.85e-20	4.16e-20
## 6	line~	val	0	1	150	50	-6.74	54.5	1.05e- 8	1.57e- 8
## 7	spike	val	0	1	150	50	24.6	146.	1.16e-53	1.04e-52
## 8	trend	val	0	1	150	50	-23.4	65.2	2.14e-33	6.42e-33
## 9	x_ac~	val	0	1	150	50	-22.3	70.5	1.17e-33	5.26e-33
## #	W	ith 1 r	nore va	riable:	p.adj.	signif	<pre><chr></chr></pre>			

Metrics by Method aa_high_acf_loading_shift

Method	gsynth	scdid	mc	causalimp	ensemble
coverage					
0	0.920	1.000	1.000	0.560	0.980
1	0.960	1.000	1.000	0.700	1.000
2	1.000	1.000	0.980	0.660	1.000
3	1.000	1.000	1.000	0.720	0.980

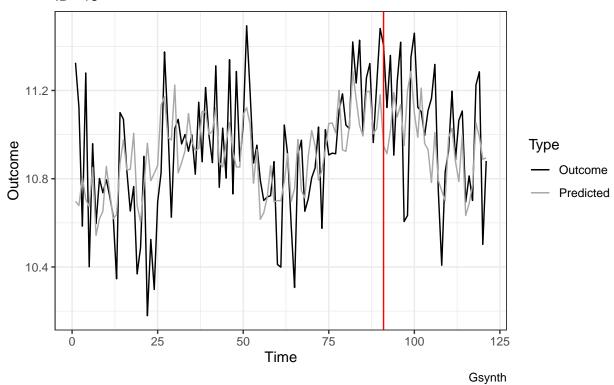
4	0.980	1.000	1.000	0.580	0.980
rmse					
0	0.374	0.427	0.377	0.315	0.368
1	0.410	0.437	0.404	0.318	0.398
2	0.435	0.463	0.431	0.336	0.422
3	0.444	0.467	0.454	0.347	0.430
4	0.440	0.483	0.478	0.370	0.433

Notes:

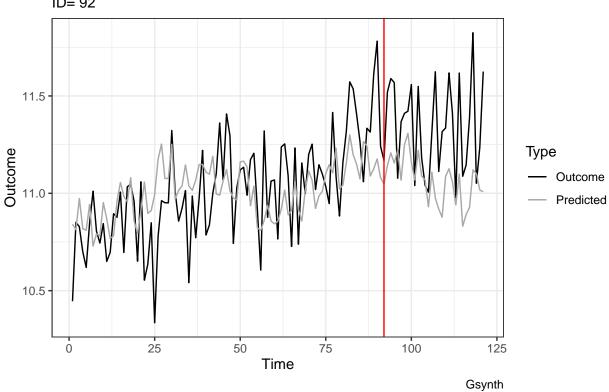


Notes:

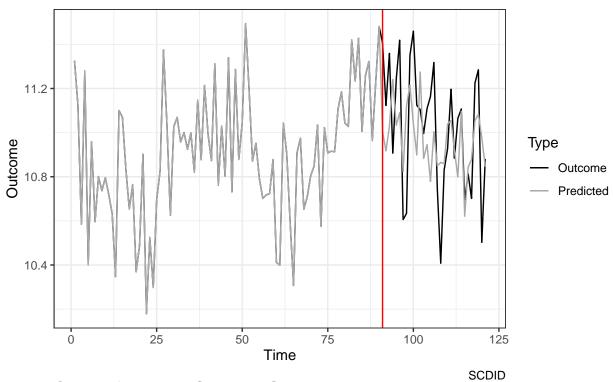
ID= 18



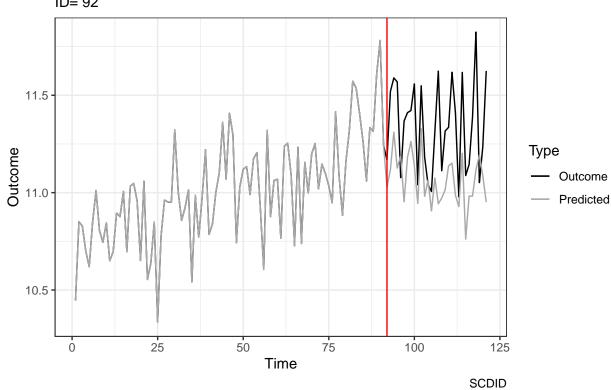
Counterfactual vs Outcome Series



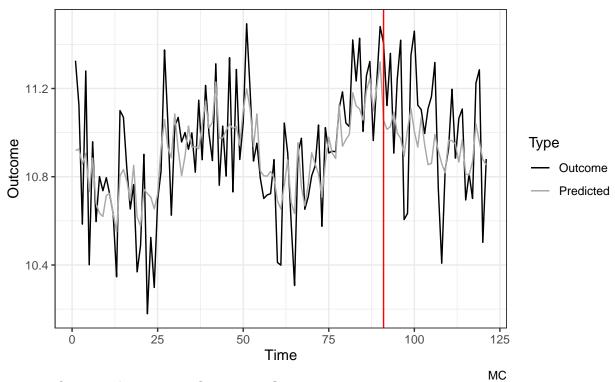




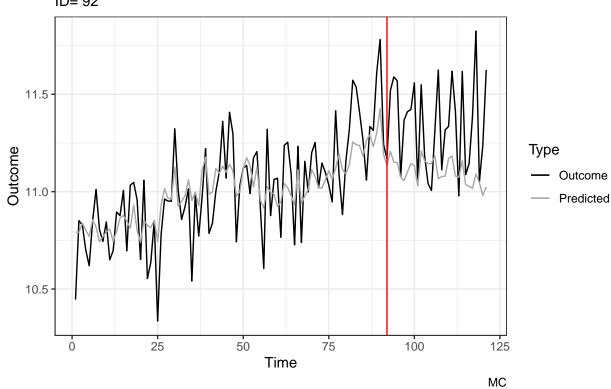
Counterfactual vs Outcome Series



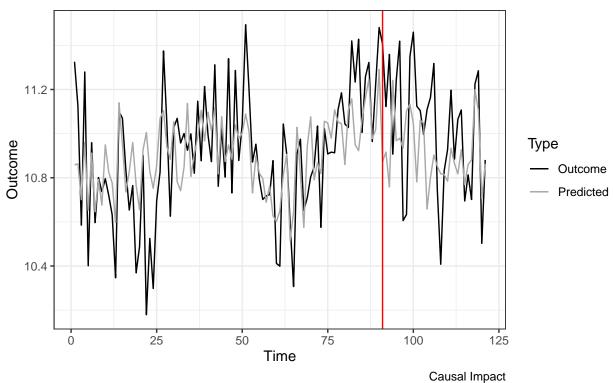




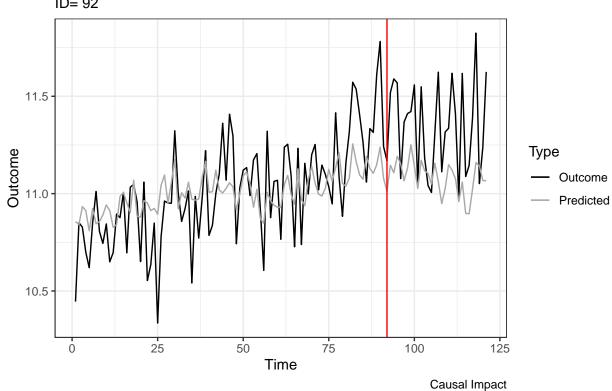
Counterfactual vs Outcome Series



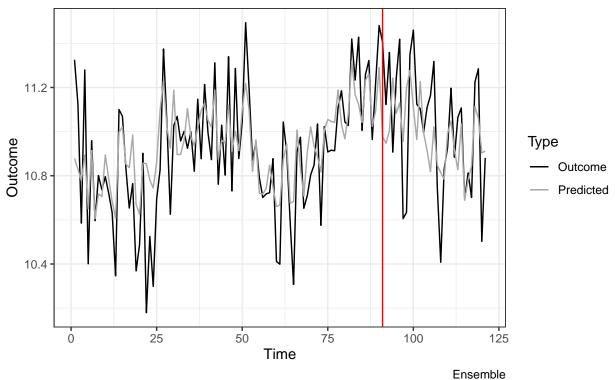
ID= 18



Counterfactual vs Outcome Series

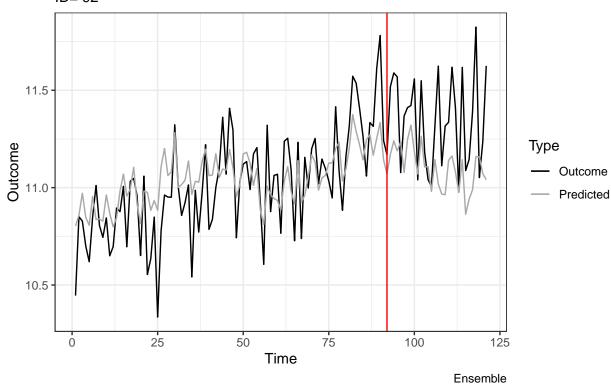






Counterfactual vs Outcome Series

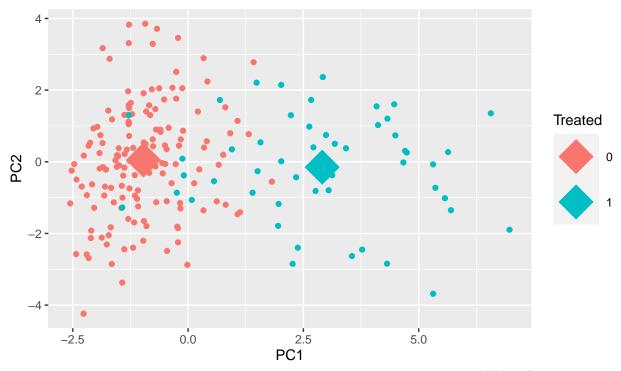




`summarise()` ungrouping output (override with `.groups` argument)

Scatter Plot of First 2 PC by Treatment

Centroids have L2 dist: 15.0677



aa_high_acf

## #	A tibb	ole: 9	x 11							
##	vars	.у.	group1	group2	n1	n2	statistic	df	р	p.adj
##	<chr>></chr>	<chr></chr>	<chr></chr>	<chr></chr>	<int></int>	<int></int>	<dbl></dbl>	<dbl></dbl>	<dbl></dbl>	<dbl></dbl>
## 1	curv~	val	0	1	150	50	2.21	63.0	3.09e- 2	3.97e- 2
## 2	diff~	val	0	1	150	50	-3.15	93.5	2.20e- 3	3.30e- 3
## 3	diff~	val	0	1	150	50	0.451	94.8	6.53e- 1	6.53e- 1
## 4	e_ac~	val	0	1	150	50	-1.17	79.1	2.44e- 1	2.74e- 1
## 5	entr~	val	0	1	150	50	8.43	50.1	3.54e-11	6.37e-11
## 6	line~	val	0	1	150	50	-8.51	56.5	1.08e-11	2.43e-11
## 7	spike	val	0	1	150	50	16.2	99.1	1.64e-29	1.48e-28
## 8	trend	val	0	1	150	50	-14.0	55.5	8.50e-20	2.55e-19
## 9	x_ac~	val	0	1	150	50	-14.5	58.6	4.42e-21	1.99e-20
## #	wi	ith 1 i	more va	riable:	p.adj.	signif	<pre><chr></chr></pre>			

Metrics by Method aa_high_acf

aa_nign_aci							
Method	gsynth	scdid	mc	causalimp	ensemble		
coverage							
0	0.000	0.000	0.000	0.000	0.000		
1	0.000	0.000	0.000	0.000	0.000		
2	0.000	0.000	0.000	0.000	0.000		
3	0.000	0.000	0.000	0.000	0.000		
4	0.000	0.000	0.000	0.000	0.000		
rmse							
0	0.624	0.667	0.525	0.500	0.585		
1	0.545	0.623	0.546	0.498	0.531		

2	0.534	0.623	0.588	0.497	0.526
3	0.581	0.647	0.640	0.517	0.564
4	0.583	0.649	0.664	0.509	0.566

Notes: