

a)	Method	b) Accuracy																c) Scalability					d) Stability		e) Usability												
		Per metric				Per dataset source				Per trajectory type								Predicted time (#cells × #features)					Similarity between runs		Quality of software and paper												
		Ordering	Topology	Features	Clustering	Gold	Silver	Dyngen	Dyntoy	PROSST	Splatter	Cycle	Linear	Bifurcation	Convergence	Multifurcation	Tree	Acyclic	Connected	Disconnected	1m × 100	100k × 1k	10k × 10k	1k × 100k	100 × 1m	Corr.	pred. vs. real	Ordering	Topology	Features	Clustering	Availability	Behaviour	Code assurance	Code quality	Documentation	Paper
Graph methods																																					
	PAGA																				1h	7m	55s	19s	25s	0.82											
	RaceID / StemID																				>7d	1d	1h	1h	14h	0.77											
	SLICER																				>7d	>7d	2h	31s	<1s	0.99											
Tree methods																																					
	Slingshot																				>7d	11h	56m	2m	52s	0.98											
	MST																				56m	8m	12m	2m	52s	0.90										Off-the-shelf	
	pCreode																				>7d	1d	2h	3m	58s	0.89											
	SCUBA																				>7d	3d	4h	10m	3m	0.86											
	Monocle DDRTree																				1h	26m	2h	14h	2d	0.86											
	Monocle ICA																				>7d	2d	1h	1h	1d	0.95											
	cellTree maptpx																				>7d	>7d	6h	1h	24m	0.51											
	SLICE																				>7d	>7d	1h	51m	1d	0.78											
	cellTree VEM																				>7d	23h	39m	10m	15m	0.78											
	EIPiGraph																				12h	1d	6h	20m	7m	0.93											
	Sincell																				>7d	>7d	2h	5m	2m	0.97											
	URD																				>7d	1d	2h	10m	1m	0.68											
	CellTrails																				>7d	>7d	2d	7h	4h	0.76											
	Mpath																				>7d	>7d	8h	4h	1d	0.90											
	CellRouter																				>7d	1d	1h	9m	9m	0.24											
Multifurcation methods																																					
	STEMNET																				1h	36m	12m	7m	6m	0.64											
	FateID																				1d	6h	1h	26m	20m	0.71											
	MFA																				5h	9h	9h	9h	7h	0.86											
	GPfates																				>7d	>7d	4d	2h	13m	0.75											
Bifurcation methods																																					
	DPT																				24m	36m	40m	7m	56s	0.76											
	Wishbone																				1d	2h	17m	6m	7m	0.66											
Linear methods																																					
	SCORPIUS																				13h	1h	4m	4m	4m	0.96											
	Component 1																				34s	2m	11m	3m	51s	0.92										Off-the-shelf	
	Embeddr																				>7d	2d	33m	2m	34s	0.93											
	MATCHER																				2h	3h	1h	16m	3m	0.91											
	TSCAN																				24m	7m	9m	7m	11m	0.96											
	Wanderlust																				1d	2h	16m	5m	7m	0.73											
	PhenoPath																				1h	5h	9h	4d	>7d	0.83											
	topslam																				>7d	>7d	1d	4h	8h	0.99											
	Waterfall																				47m	8m	13m	2m	51s	0.89											
	EIPiGraph linear																				2h	2h	1h	8m	5m	0.92											
	ouijaflow																				>7d	>7d	20h	>7d	3d	0.80											
	FORKS																				4m	5m	25m	5m	2m	0.04											
Cyclic methods																																					
	Angle																				35s	2m	10m	3m	54s	0.96										Off-the-shelf	
	EIPiGraph cycle																				2h	2h	1h	8m	5m	0.92											
	reCAT																				13h	1d	9h	1d	>7d	0.92											
Score																																					
		0	0.2	0.4	0.6	0.8	1																														