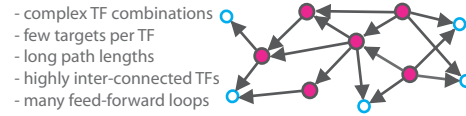
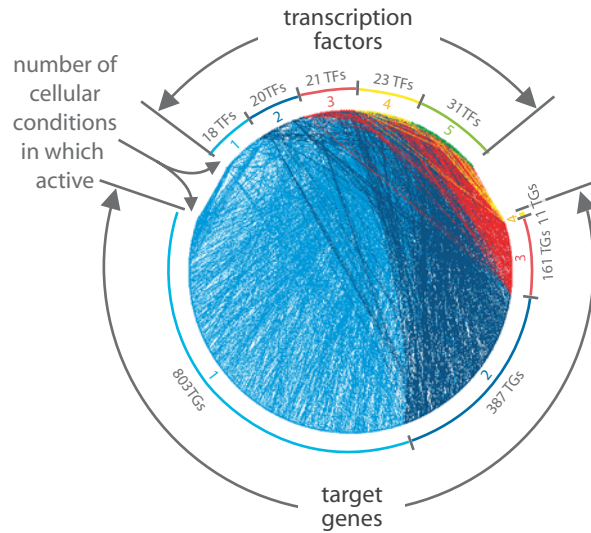


static

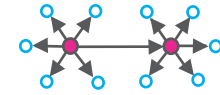
endogenous

exogenous

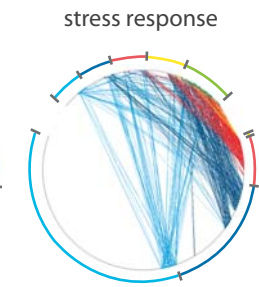
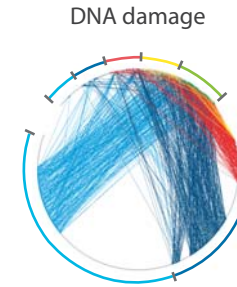
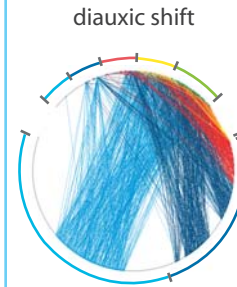
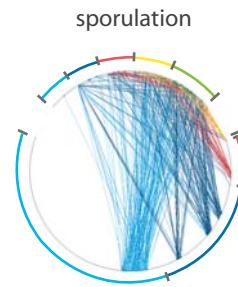
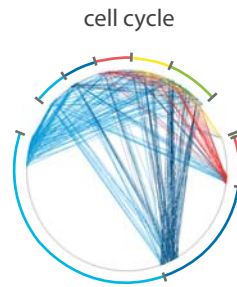
(a) schematic and summary



- simple TF combinations
- many targets per TF
- short path lengths
- few inter-connected TFs
- many single input motifs



(b) graph



(c) standard network statistics

size	static	endogenous	endogenous	exogenous	exogenous	exogenous
# transcription factors	142	70	74	71	72	63
# target genes	3,420	280	257	748	678	362
# regulatory interactions	7,074	550	481	1,217	1,082	566
in-degree ($\langle k_{in} \rangle$)	2.1	2.0	1.9	1.6	1.6	1.6
out-degree ($\langle k_{out} \rangle$)	49.8	7.9	6.5	17.1	15.0	9.0
path length ($\langle l \rangle$)	4.7	4.5	3.4	2.1	2.0	2.2
clustering coefficient ($\langle c \rangle$)	0.11	0.15	0.14	0.09	0.09	0.08
single input (SIM)	1,748 (37.6%)	130 (32.0%)	117 (38.9%)	438 (57.4%)	462 (55.7%)	228 (59.1%)
multiple input (MIM)	325 (7.0%)	96 (23.7%)	50 (16.6%)	180 (23.6%)	226 (27.3%)	78 (20.2%)
feed-forward loop (FFL)	2,581 (55.5%)	180 (44.3%)	134 (44.5%)	145 (19.0%)	141 (17.0%)	80 (20.7%)
total	4,654	406	301	763	829	386