### basic flocking

with cone vision Andreas Rau Tinf12A

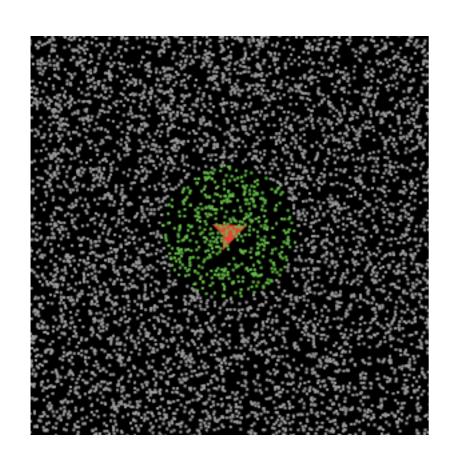
#### whats covered?

- basic flocking all-around view, metric
- basic flocking peripheral view, metric
- influence of angle/cone of vision on shape of swarm

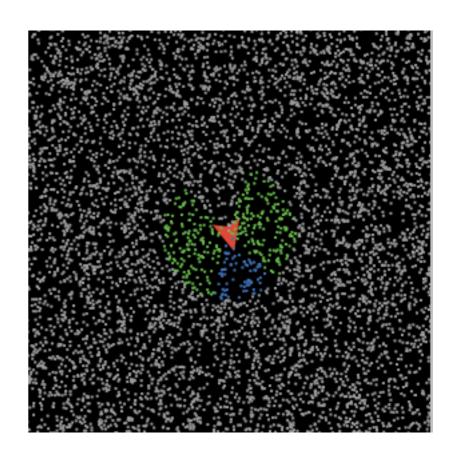
#### whats not covered?

- alignment angles analysis
- basic flocking density influenced (non metric)
- basic flocking influenced by fake agent (social threshold value)
- angle of view intersection
- aggressor swarm derangement

### all-around vision, metric vs peripheral vision, metric



all-around

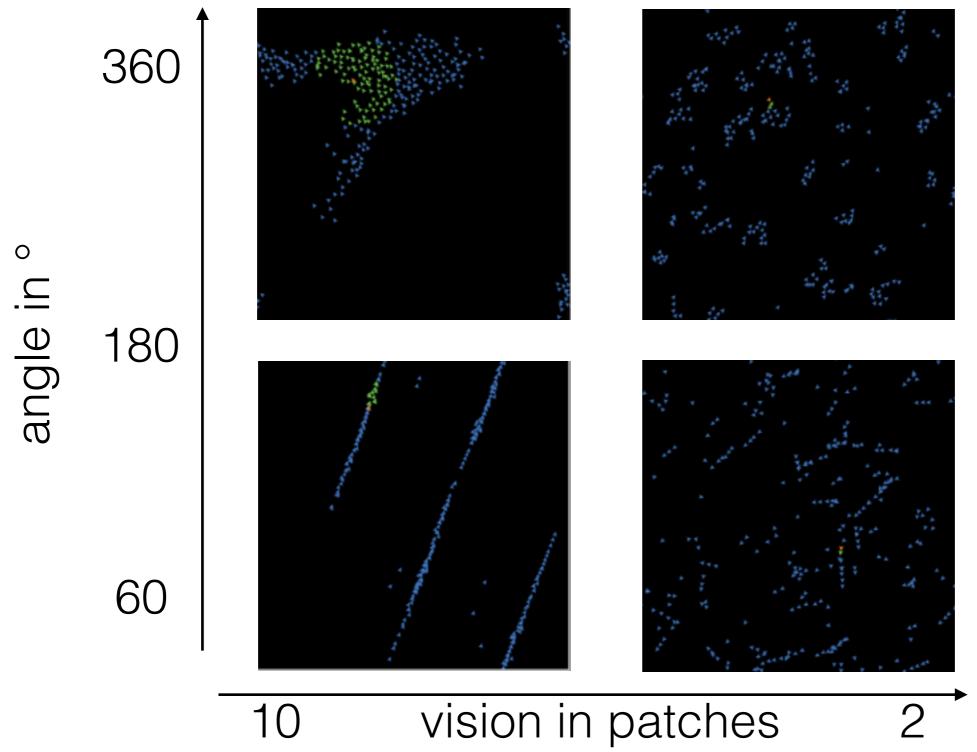


peripheral

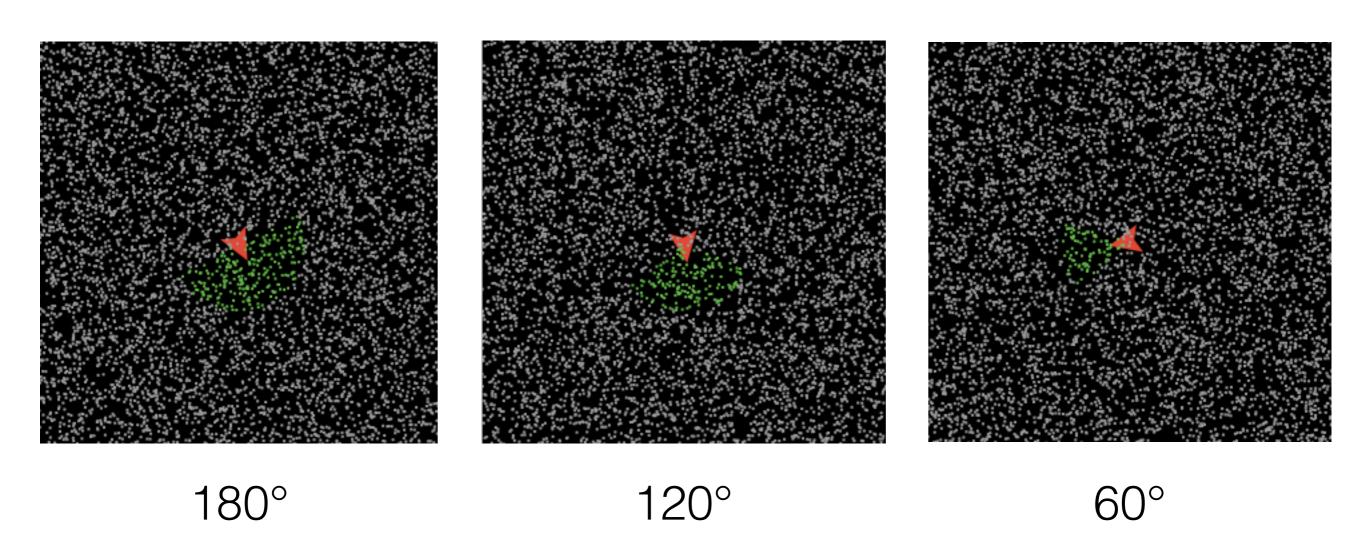
## basic flocking — all-around view, metric

angle/vision	10	8	6	4	2
360	55	73	101	143	180+
300	69	64	113	187	350+
240	78	100	118	224	500+
180	74	102	134	251	600+
120	106	143	191	450+	pointless
60	198	229	350+	pointless	pointless

### interpretation all-around view, metric



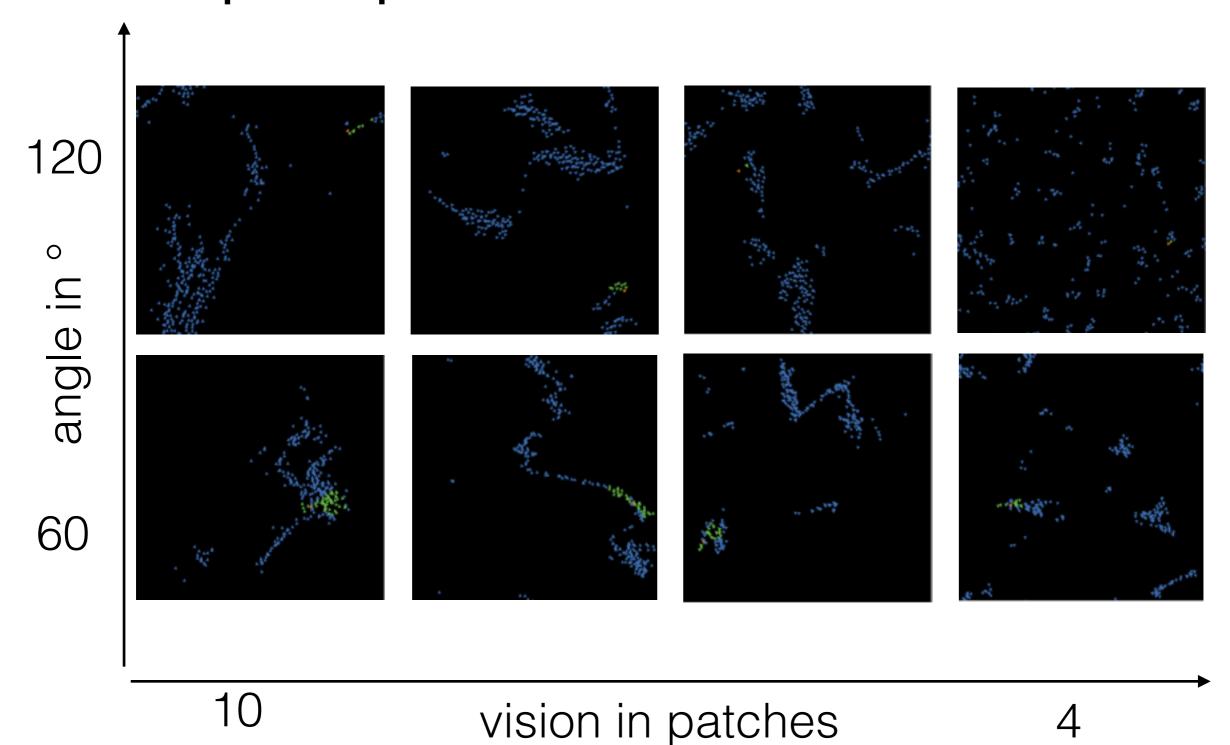
# basic flocking — all-around viewing angles, metric



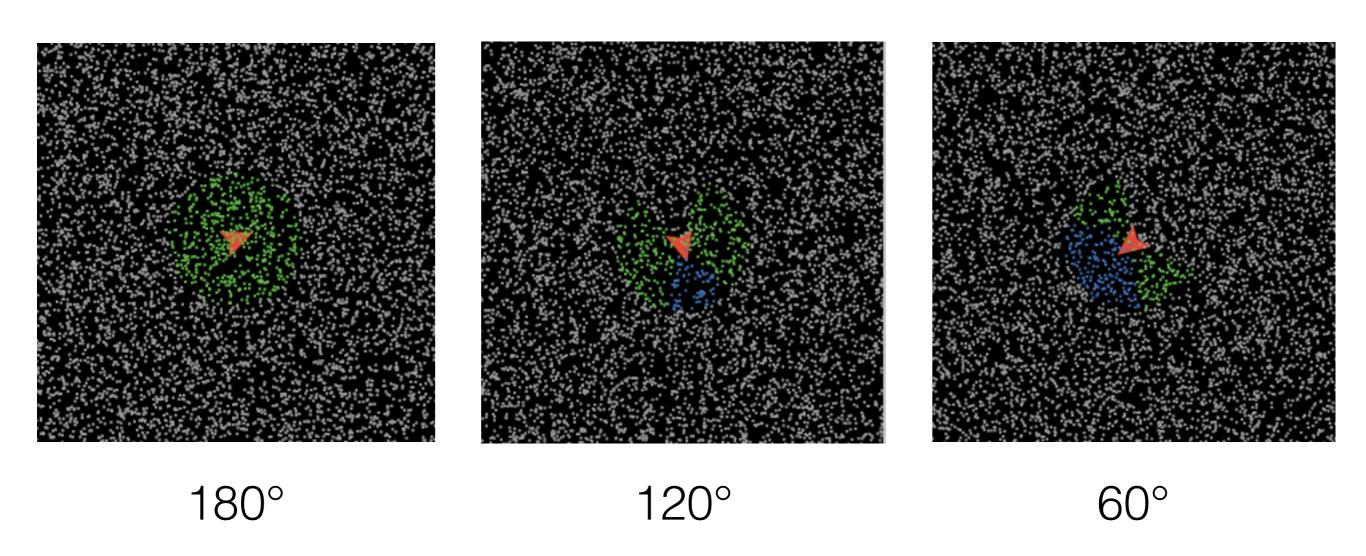
## basic flocking — all-around view and cone view, metric

angle/vision	10	8	6	4	2
360	55	73	101	143	180+
300	69	64	113	187	350+
240	78	100	118	224	500+
180	74	102	134	251	600+
120	106	143	191	450+	pointless
60	198	229	350+	pointless	pointless
	10	8	6	4	2
180	61	86	94	164	170+
120	93	145	171	245	350+
60	180	300	400	550	pointless

### interpretation peripheral view, metric



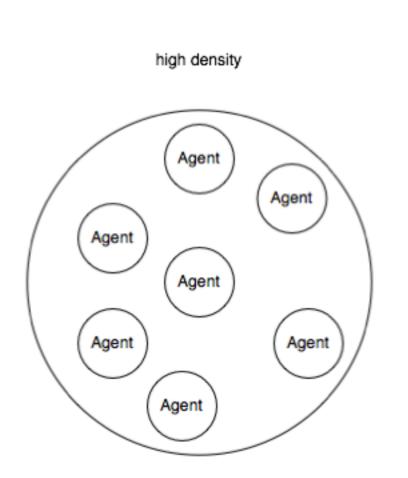
## basic flocking — peripheral view, metric

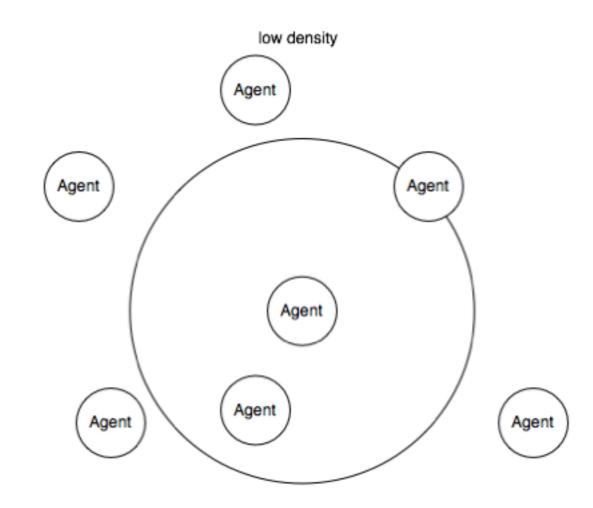


#### to be done

- alignment angles analysis
- basic flocking density influenced (non metric)
- basic flocking influenced by fake agent (social threshold value)
- angle of view intersection
- aggressor swarm derangement

# basic flocking — density influenced (non metric) (Sturnus vulgaris)





### angle of view — intersection

