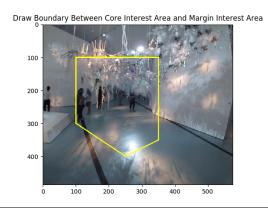
Interest Area Division

- 1. Whole Interest Area
- 2. Core Interest Area
- 3. Margin Interest Area

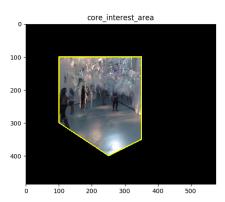


Whole Interest Area: A relatively wider area around Canopy.

YouTube: Processed test
video in Whole Interest

Area
(https://youtu.be/Y6ZnMoXIhBU)

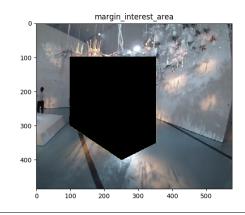




Core Interest Area: The small area just underneath the Canopy.

YouTube: Processed test video in Core Interest Area (https://youtu.be/Scfao6b-200)





Margin Interest Area: The area within Whole Interest Area and outside the Core Interest Area.

YouTube: Processed test
video in Margin Interest

Area
(https://youtu.be/XwNDwD57brA
)



Truth Value Table

Assumption:

- There is a time-delay for visitors to move from one area to another area.
- At the same time step: z = x+y
- Estimate of # of visitors in each area is independent from each other.

Change type of estimated # of visitors between two consecutive time steps:

- Increase: ↑
- Decrease: ↓

• Hold:—

Truth value:

- 1 means possible
- 0 means impossible

# of visitors in core area: x	# of visitors in margin: y	# of visitors in whole interest area: z	Truth value	Explanation
_		_	1	No people transform between space.
	_	↑	0	Impossible
	_	<u> </u>	0	Impossible
	↑	_	0	Impossible
	↑	↑	0	New people come in
	↑	\	0	Impossible
	<u> </u>	_	0	Impossible
_	<u> </u>	↑	0	Impossible
	↓	↓	1	People get out
^		_	0	Impossible
^		1	1	New people come in and people move
I				from margin to core area.
		↓	1	People move from margin to core area
↑				and more people in margin get out of
				whole interest area.
↑	↑	_	0	Impossible
	1	1		People move from margin to core area
1			1	and more new people come into the
				margin area.
↑	↑	↓	0	Impossible
^	\	_	1	People move from margin into core
				interest area.
↑	↓	↑	1	New people come in and more people
				move from margin into core interest area.
	\	→	1	People move from margin into core
↑				interest area and more people get out of
				whole interest area.
\downarrow			0	Impossible
<u></u>		<u> </u>	0	Impossible
	—	↓	1	People get out of core area into margin,
↓				and the same # of people get out of whole
				interest area.
	1	_	1	People get out of core area into margin,
↓				and no people get out of whole interest
				area.
↓	1	↑	1	People get out of core area into margin,
				and new people come in.
\	↑	↓	1	People get out of core area into margin,
				and less than this # of people get out of
				whole interest area.

\downarrow	\downarrow	_	0	Impossible
\downarrow	\downarrow	↑	0	Impossible
\	+	↓	1	People get out of core area into margin, and more people get out of whole interest area.

- 27 combinations
- only 13 of 27 combinations are possible
- only 4 of the 13 possible cases in where new visitors come in.
- only 6 of the 13 possible cases in where visitors leave from the whole interest area.
- Only 3 of the 13 possible cases in where the # of visitors remain unchanged.

If we have this Truth Table, and we can estimate the change of the # of visitors in each area of two consecutive time steps, we can infer which scenario is happening.