Chapter 10

Conclusion.

10. CONCLUSION

This study was evolved on the tenet that there is a necessity to facilitate a greater understanding among planners on the inhabitant's cognition of the environment, when they comprehend localities for planning. Towards this end this study has developed a conceptual model of the inhabitants' cognition of a locality, named the *unitary image of the place*. For the development of this model, a few dominant theories and concepts from related fields have been adopted. The empirical grounds for the model was evolved through the analysis of data obtained from field surveys carried out in four different urban areas from two Asian countries. Within the empirical work, a classification of spatial elements that possess the capacity to represent *reference points* in the structure of a place's image, and the factors that promote them, have been investigated. In addition a possible approach in which the conceptualization proposed here can be adopted for the development of a few spatial strategies in urban planning applications has been discussed in chapter 9.

It must be noted that this study was premised on certain propositions, mentioned in chapter 3. On those propositions, the study has approached on the public realm of the physical environment and investigated it from a designer's perspective. There may be many other approaches, but this study deliberated that designing the framework for desirable changes in the public realm of physical fabric of urban localities was a fundamental and indivisible task of urban planning.

The main contribution of the study is the conceptualizing model of the image. Although a few previous studies proposed conceptualizing approaches, they showed limitations on both theoretical grounds and the practicalities in spatial planning. The conceptualization proposed in this study is different from what was proposed by preceding studies in three areas. The first is its ontological positioning. Previous conceptualizations, in line with the dominant theories in environmental psychology and geography, hypothesized that the image of a given environment

was an individually constructed, self-oriented phenomenon. They purported shared characteristics in these individual images due to perceptual unanimity of the physical environment and, the biological, perceptual and socio-demographic similarities within individuals. This study proposed more or less the opposite of it. It is based on the concept of the *collective memory*, which has not been a concern for conventional theories in environmental cognition, and proposes that the image of a place is a *unitary* phenomenon, formulated as a result of the individuals' internalization and personalization of the structured collective cognition of the place. Thus, it suggests that all individuals, when they become inhabitants of a locality, despite their biological, social and cognitive differences, take part in the same image.

The second difference is on the implications of this conceptualization in urban planning. In the previous instances it was suggested that there were shared areas in the individual's images and a common ground for planning applications could be scrutinized on these shared areas. Hence, the image was seen more as a fabrication than an established phenomenon. With a somewhat different view this study suggests that a locality's image has a relatively more established structure in its own. The substance on which the urban planning and design can intervene in a place's cognition is already there, and what is required is to disclose it and, to appropriate the advantageous areas and expropriate the disadvantageous areas of it through appropriate measures in planning.

The third difference is that the image, conceptualized in this study is a phenomenal process, rather than an end product as envisioned by many previous studies. It suggested a few organizing systems that act as the regulatory parameters for the process and showed that the dominance of these parameters differed from one place to another. Therefore, although an invariant form for the structure of a place's image could be established the process of structuring involves more context specific forces.

However, what is presented in this study may not be a total shift in the knowledge available on place cognition. It may be regarded more as a 'step forward' in the on-going theoretical advances in urban planning and other fields where the interests have been focused on spatial cognition. As stated within the study itself, there are many other writings that embodied the discourses similar to the argument put forward here. What is new about this study is the adaptation of the discourse to explain the concept of place image in the context of urban planning.

This study may also have some limitations. A few limitations noticeable at this stage itself and the reasons behind them can be stated in the following manner. One of the limitations is with regard to the scope of the conceptualization. The study has confined the phenomenon of the image within the boundaries of a locality, despite the fact that it could operate in wider spatial context. The reason for this was that locality was the focus and thus, the scale of the spatial extent in focus was set out by its objective. Nevertheless, a study on images in a larger context, in fact need more resources and effort. However, the proposed conceptualization can be extended to zoom in at neighbourhood level and zoom out at regional or national level. The basic properties of the structuring, proposed in the model may hold valid at any of these levels and only the contents may vary.

Another area where the limitations can be seen is the empirical work. It has limitations in terms of number of cases studied, sample size of participants, methods and techniques employed in both survey and analysis and form of results obtained. The reason behind such limitations can be attributed to two factors. The first is the time and resource availability. The second is the set of general difficulties encountered in cognition research which still is at an infant stage. More consistent and reliable methods and techniques, especially to elicit cognitive information from participants to a survey, have yet to be evolved. However, attempts have been made to best utilize the available resources and time, and to employ the most appropriate methods and techniques, to accomplish the objectives stated at the inception of the study.

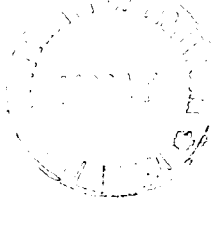
The spatial strategies discussed at the end may be regarded only as some possible scenarios. The study did not intend to provide a concrete set of guidelines to evolve spatial planning strategies, which perhaps could be a futile exercise. Rather, it has only attempted to provide a foundation for the development of the envisioned type of strategies. The geographic, social, economic and political settings as well as the structuring parameters of the images differ from one situation to another. Thus, the strategies need to be more context specific and tailor made, in order to befit the situations where they are in need. Therefore, the investigation of fundamentals for such strategies, rather than the strategies themselves was thought to have more validity in terms of generalizing the findings of a study of this nature.

Finally, there are a few directions for further research which can be seen at this stage. As stated earlier, a study similar to this, but carried out in a broader scale of space, at regional and national level may be helpful to investigate the validity of the structure and the process of the image, proposed in this study. The possibilities for such are evident as the clues provided in the works of Portugali (1998) on the making of nations with place memories and Urban (2002) on marketing of cities through their cognitive representations. Another direction is to re-examine the whole of the hypothetical grounds behind the conceptualization in a totally different approach. More robust test methods and more advanced techniques may be employed to examine those hypotheses. As all the urban areas studied here are from two Asian countries, there can be similarities underlying the cognition of their inhabitants, despite the social and economic differences evident. Therefore, in yet another direction, the typology of spatial elements established in this study can be examined in non-Asian contexts.

Future works can overcome the limitations observed in this study and thereby lead to new conclusions. For example, the order parameters analyzed in this study may be approached through some alternative measures, and more expressive attributes would be identified and more accurate measurements would be administered to obtain better results. At the same time, the

surveys can be carried out with bigger samples; the increase in the number of participants will lead to more observations, resulting in more reliable findings. The surveys can be undertaken in more number of urban areas, in order to examine whether the effect of the order parameters have country specific characteristics or their behaviours are unique in each locality.

The most challenging to the conceptualizing model proposed here, in further research, would be to examine its capacity to meet the purposes for which it intended to serve in field. It however, will be a long-term research project that in fact, needs a lot of dedication and resources directed that way. It, at the same time, need to break though the present mindsets of both the planners who have some reservations towards the consideration of psychological imperatives of the built environment in planning processes, and researchers whose thinking is largely engulfed in dominant theories than on practicalities encountered in real world situations.



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Appendices

Appendix 4.1:The Questionnaire

Questionnaire Survey on the Image of.....

School of Design and Environment

NUS

Conducted by: J. N. Munasinghe, Graduate Student, Department of Real Estate, National University of Singapore.
Tel. 6874 3514, email: sdep0191@nus.edu.sg
Advisors: A/Prof. Sim Loo Lee, Dr. Malone Lee Lai Choo, A/Prof. Zhu Jieming
6874 3469 6874 6405 6874 3422

No:

Personal Details ;

Age Group				Education Background					Sex		Ethnicity			
<20	21-35	36-50	51<	Acad	Thir	Sec	Pri	No	M	F	Sinhala/ Chinese	Tamil/ Malay	Muslim/ Tamil	Other

Frequent Mode of Travel				Period of stay						General Route in town : from →				
Bus	Train/ MRT	Car	Walk	<06 m	06 m-1	1-3Y	3-5Y	5-10	>10 y					

(Use the sheet attached to record the answers)

1. What are the **Places, buildings, streets** or any **other physical elements** that comes to your mind with the name .....?

   (You have a picture of ..... in your mind. Please tell what places, buildings and other elements are there in that picture)

2. Do you **like** ..... (each of the items mentioned)?
   If so, why?

   (What do you think that make you like/dislike.....?)

3. Do you think ..... (each of the items mentioned) is **important** to..... (the locality)?
   If so, why?

   (Why do you think ..... is important/unimportant to .....?)

4. Please compare each of the elements/places that you have mentioned with every other elements/places, and indicate which one do you **encounter** (visit / pass by) **more frequently**?

5. Please compare each one of the elements/places, with every other in the same way and indicate which one do **you like more** to be in?

6. Please compare each one of the elements/places with every other in the same way and indicate which one, in your opinion, is **more important to** .....?

   (If you happen to decide for people which one would you evaluate as more important for .....)

Appendix 4.2: The data recording sheet

1	i	L	Age		Education		M	F		Stay		No
			>20	21-35	Prim	Sec	*Chi*	*Mal*		>1y	1-3	
			31-50	50<	Ter	Acad	*Tam*	*Oth*		3-10	10<	

Travel mode

Bus	MRT
Car	Walk

f / L i — 2 — i — L

f / L i, f / L i — 3 — i — L — 9.L — L

f / L i ×3 — 4 — i — L — 10 i — L

f / L i ×4 — 5 — i — L — 11 i

f / L i ×5 — 6 — i — L — 12 i

f / L i ×6 — 7 — i — L

f / L i ×7 — 8 — i — L

f / L i ×8 — 9 — i

f / L i ×9 — 10

f / L i ×10 — 11

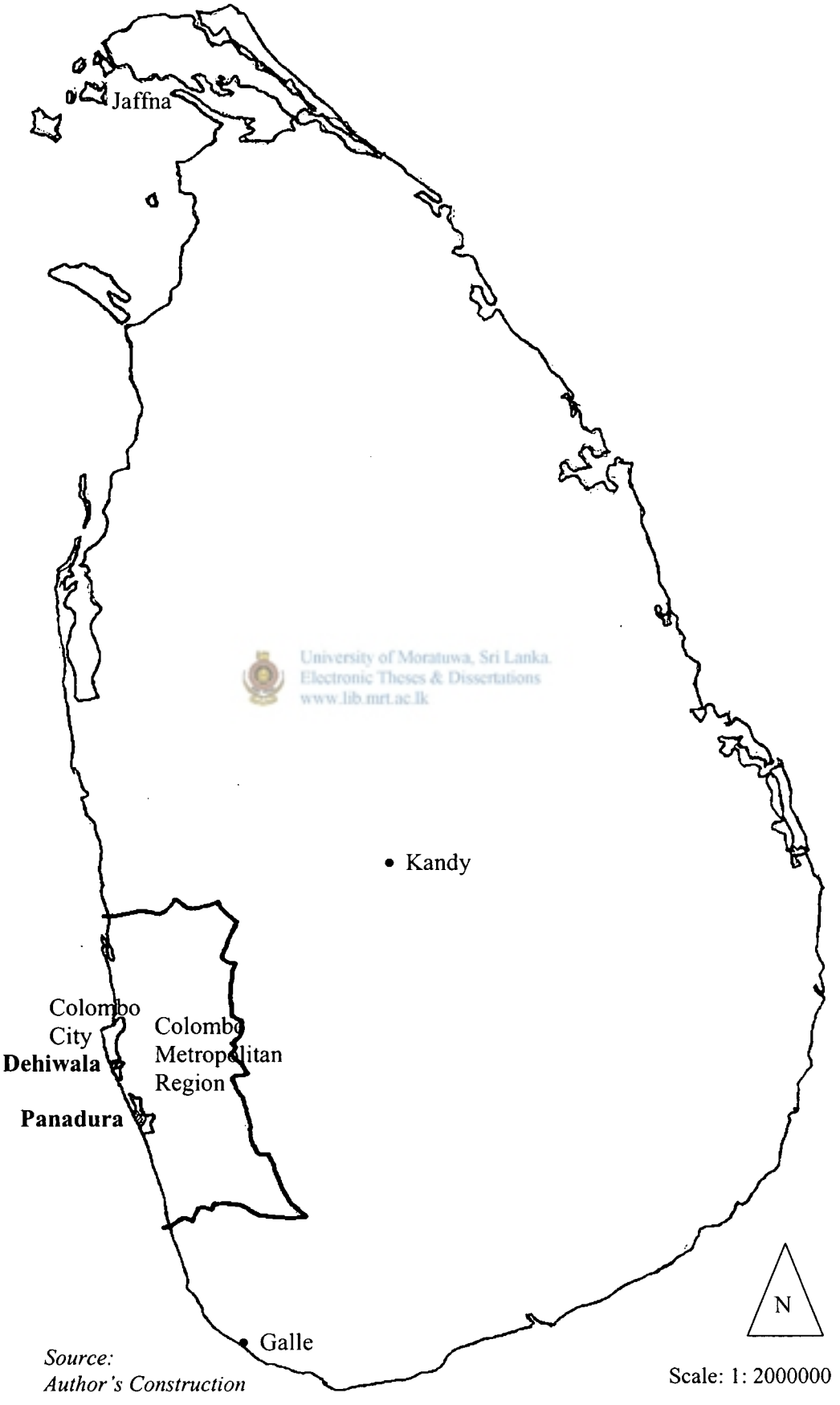
f / L i ×11 — 12

Appendix 5.1: Map of Singapore and the locations of Clementi and Katong study areas

Source:
Author's Construction

Scale: 1: 200000

Appendix 5.2: Map of Sri Lanka and the locations of Dehiwala and Panadura study areas.



Source:
Author's Construction

Scale: 1: 2000000

Appendix 6.1:
The spatial elements mentioned by more than 10 respondents and their frequencies of stating

Clementi

Element	*Frequency of Stating*
Avenue 1(seg1)	4.03
Book Shop 2	7.00
Buddhist Temple	5.50
Bus Terminal	91.21
Cinema	25.27
Clock Tower	13.55
Coffee Shop 1	10.63
Coffee Shop 2	5.50
Coffee Shop 4	13.92
Commonwealth Avenue	10.63
Community Centre	3.66
McDonalds	70.00
MRT Station	96.34
NTUC Departmental Store	77.29
Nun Hua Primary School	4.40
Police Station	5.50
Polytechnic	6.23
POSB Bank	19.50
Primary School	17.58
Shops	83.52
Sports Complex	53.12
Town Council	4.40
Wet Market	9.16
Fountain	75.00
Poly Clinic	

Dehiwala

Element	*Frequency of Stating*
Arpico Showroom	26.55
Beach	21.38
Big Apple Restaurant	11.72
Bus Terminal	3.80
Cemetery	3.10
Central school	3.45
Commercial Bank	4.48
Concord Cinema	6.55
Deshani Dress Shop	12.07
Dharmaraja Temple	3.79
Dharshanikarama Temple	2.76
Food City	3.45
French Corner Dress Shop	29.31
Galle Road (Seg.1)	14.14
Galle Road (Seg.2)	16.90
Hill Street	19.31
Holy family Convent	5.17
Hospital	4.12
Impala Hotel	3.45
Jayanthimahal Shop	2.76
Jayasinghe Ground	8.62
Jayasinghe Hall	3.45
Junction	37.93
Karagampitiya Junction	2.76
Karagampitiya Temple	11.38
Library	3.10
Lucky Stores Shop	3.10
Mallwatta Road	9.66
Market	5.52
Pizzahut	4.14
Police Station	17.59
Presbeterian Church	2.76
Railway Station	36.55
Sampath Bank	5.17
Sathosa	6.21
Seylan Bank	5.17
St.Mary's Church	14.14
St.Mary's School	4.83
Station Road	8.28
Supermarket	3.80
Town Hall	23.80
Vaidya Road	6.21
Vishnu Kovil	2.07
YMBA Building	12.76
Zoological Garden	53.45

Appendix 6.1:
The spatial elements mentioned by more than 10 respondents and their frequencies of stating

Katong

Element	*Frequency of Stating*
84 Market	2.76
Ceylon Road	7.59
Chinese Buddhist Temple	4.48
Chinese Swimming Club	3.11
City Plaza	5.17
East Coast Park	9.31
East Coast Road	32.07
East Shore Hospital	4.83
Haig Road	3.45
Holy Family Church	15.17
Joo Chiat Complex	3.45
Joo Chiat Complex	4.14
Joo Chiat Road	23.80
Katong Complex	9.66
Katong Convent	4.83
Katong Laksa Shop	4.48
Katong Mall	22.07
Katong Shopping Centre	51.38
Lion City Hotel	7.59
Mandarin Garden Condominium	6.21
Marine Parade Library	13.11
Marine Parade Police	2.76
Marine Parade Road	3.45
Masjid Kalis Mosque	8.28
Mount Batton Road	3.45
Neptune Court	5.86
NTUC Departmental store	10.69
Paramount Hotel	3.12
Parkway Parade	56.90
Red House Bakery	19.66
Roxy Square Complex	21.04
Sengap. Vinayagar Temple	11.38
Siglap Centre	8.62
St Patric's School	6.90
Tanjong Katong Road	8.97
TK Girl's School	15.52
TK Secondary School	15.12
Victoria Junior School	8.28

Panadura

Element	*Frequency of Stating*
Agamethi Balika School	3.39
Balika School	9.20
Beach	10.85
Bus Terminal 1	36.61
Bus Terminal 2	17.97
Cargills Supermarket	10.85
Cinema	8.14
Clock Tower	40.68
Deshani Dress Shop	7.12
Dias Place	4.41
Galgoda Vihara Temple	11.19
Galle Road (Seg 6)	3.05
Galle Road (Seg.2)	4.41
Galle Road (Seg.3)	11.86
Galle Road (Seg.4)	13.90
Galle Road (Seg.5)	3.73
Hindu Kovil	6.68
Horana Road	6.44
Hospital	33.56
Janapriya Mawatha	16.61
Kethumathi Hospital	10.85
Market	14.92
Naga Bodhi Shrine	8.81
New Bridge	4.75
Old Road (Seg.2)	6.10
Osusala Pharmaceutical Shop	2.71
Panadura Grocers	11.86
Play Ground	2.71
Police Station	16.27
Post Office	8.81
Rail Station	19.32
Rankoth Vihara Temple	47.46
Rev. Gunananda Statue	43.73
Riverside Park	4.41
Samadhi Buddha Statue	40.68
Sampath Bank	3.10
Sathosa	3.05
Seylan Bank	5.76
Sri Sumangala Girl's School	16.61
St. John's School	3.73
Town Hall	11.86
Vada Bhoomi	4.07
YMBA Building	4.07

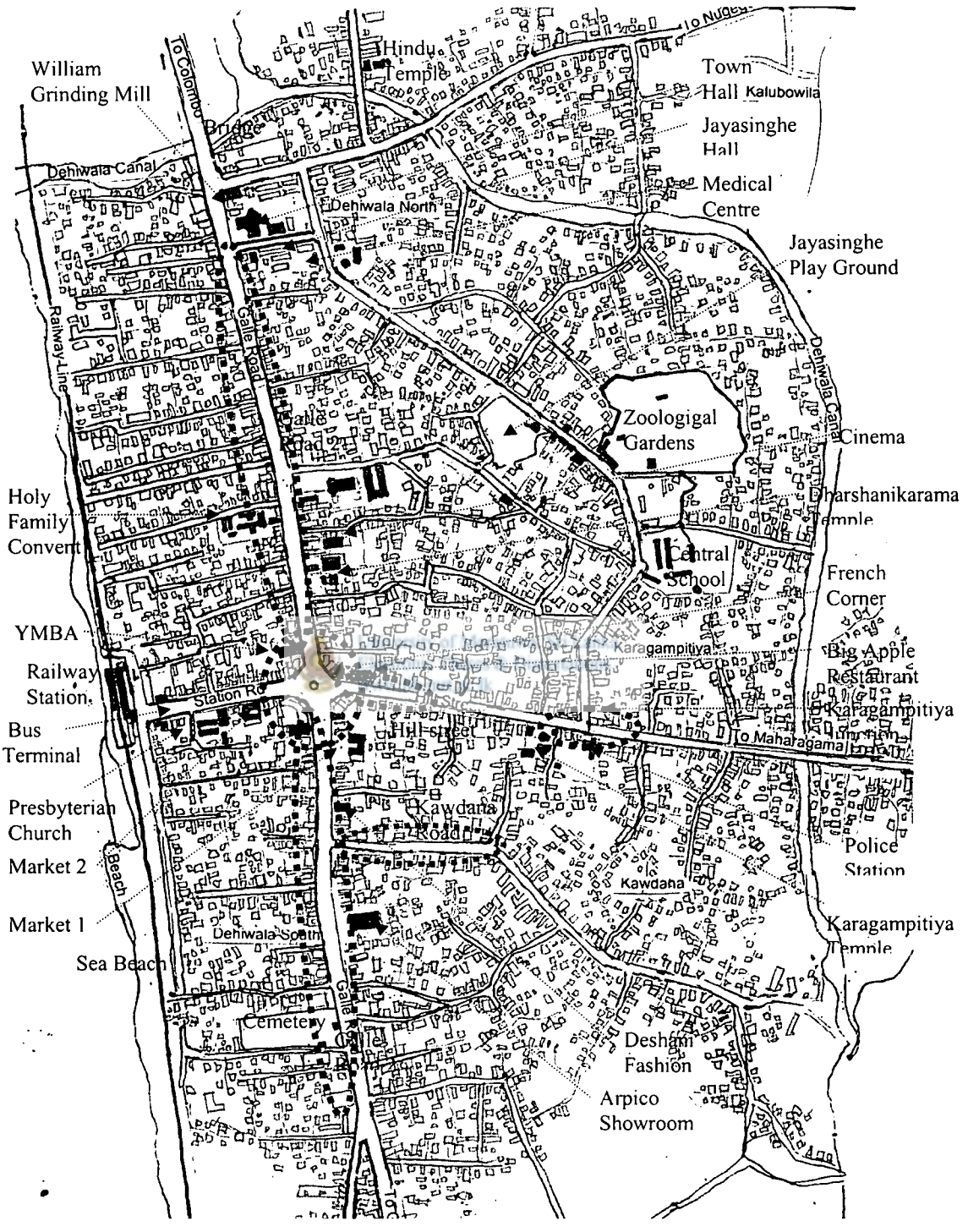
Appendix 6.2a : *Map of Clementi Town with the locations of mostly stated spatial elements*

(Source: Author's Costruction)

N

1 km 0.5 0 1 km

Appendix 6.2 b : *Map of Dehiwala Town with the locations of mostly stated spatial elements*



(Source: Author's Costruction)

N

1 km 0.5 0 1 km

Appendix 6.2 c : *Map of Katong area with the locations of mostly stated spatial elements*

(*Source: Author's Construction*)

Appendix 6.2 d : *Map of Panadura Town with the locations of mostly stated spatial elements*

(Source: Authors Costruction)

Appendix : 6.3

Percentage of respondents, mentioned most stated spatial elements from different personnal characteristics

Clementi

Age	*Element*	*< 20yrs*	*21-30yrs*	*30-50yrs*	*< 50yrs*	*Total*
	MRT	31	117	65	66	279
	BusTerm	30	113	63	59	265
	Shops	27	106	52	57	242
	NTUC	22	101	50	51	224
	Fountain	28	89	49	52	218
	McDonalds	25	88	48	42	203
	Sports	21	83	31	19	154
	Cinema	11	38	12	12	73
	POSB	6	21	15	13	55
	Total	33	120	69	68	290

Level of Education	*Element*	*Primary*	*Secondary*	*Thirtiary*	*Academic*	*Total*
	MRT	10	104	94	71	279
	BusTerm	10	99	89	67	265
	Shops	9	91	81	61	242
	NTUC	8	82	78	56	224
	Fountain	8	80	73	57	218
	McDonalds	9	79	64	51	203
	Sports	8	54	52	40	154
	Cinema	4	30	24	15	73
	POSB	3	24	15	13	55
	Total	11	109	97	73	290

Frequent Travel Mode	*Element*	*Bus*	*MRT*	*Car*	*Walk*	*Total*
	MRT	140	59	51	29	279
	BusTerm	139	58	41	27	265
	Shops	128	46	41	27	242
	NTUC	113	42	43	26	224
	Fountain	109	54	34	21	218
	McDonalds	101	46	33	23	203
	Sports	84	33	22	15	154
	Cinema	34	14	14	11	73
	POSB	26	12	8	9	55
	Total	143	61	55	31	290

Period of Stay	*Element*	*< 1yr*	*1-3yrs*	*3-10yrs*	*> 10yrs*	*Total*
	MRT	11	65	116	87	279
	BusTerm	8	61	116	80	265
	Shops	11	58	102	71	242
	NTUC	7	51	96	70	224
	Fountain	10	56	90	62	218
	McDonalds	9	55	93	46	203
	Sports	4	41	75	34	154
	Cinema	2	14	34	23	73
	POSB	3	12	26	14	55
	Total	12	67	122	89	

Appendix : 6.3

Percentage of respondents, mentioned most stated spatial elements from different personnal characteristics

Dehiwala

Age	*Element*	*< 20yrs*	*21-30yrs*	*30-50yrs*	*< 50yrs*	*Total*
	Zoo	21	63	42	29	155
	Junction	22	45	25	18	110
	RailSt	13	47	25	20	105
	FrenchCorner	15	34	23	12	84
	Arpico	11	31	22	14	78
	TownHall	11	31	19	9	70
	Beach	9	21	21	11	62
	HillSt	2	28	15	11	56
	Total	46	117	77	50	290

Level of Education	*Element*	*Primary*	*Secondary*	*Thirtiary*	*Academic*	*Total*
	Zoo	13	96	29	17	155
	Junction	15	58	25	12	110
	RailSt	12	58	23	12	105
	FrenchCorner	9	43	19	13	84
	Arpico	9	43	18	8	78
	TownHall	7	40	15	8	70
	Beach	5	23	22	12	62
	HillSt	6	22	21	7	56
	Total	32	163	68	27	290

Frequent Travel Mode	*Element*	*Bus*	*MRT*	*Car*	*Walk*	*Total*
	Zoo	103	13	19	20	155
	Junction	72	9	11	18	110
	RailSt	65	18	9	13	105
	FrenchCorner	55	11	6	12	84
	Arpico	42	9	13	14	78
	TownHall	48	5	8	9	70
	Beach	28	11	11	12	62
	HillSt	24	10	11	11	56
	Total	188	27	33	42	290

Period of Stay	*Element*	*< 1yr*	*1-3yrs*	*3-10yrs*	*> 10yrs*	*Total*
	Zoo	4	11	33	102	150
	Junction	5	10	26	69	110
	RailSt	3	7	23	72	105
	FrenchCorner	2	7	12	63	84
	Arpico	2	8	14	54	78
	TownHall	3	6	11	50	70
	Beach	1	4	10	47	62
	HillSt	3	3	11	39	56
	Total	5	15	54	216	

Appendix : 6.3

Percentage of respondents, mentioned most stated spatial elements from different personnal characteristics

Katong

Age	*Element*	*< 20yrs*	*21-30yrs*	*30-50yrs*	*< 50yrs*	*Total*
	ParkwayP	26	85	29	25	165
	KtngShpC	17	65	35	31	148
	ECRd	7	40	25	21	93
	JooChiat	8	31	18	13	70
	KatongMa	11	25	15	13	64
	RoxySq	12	23	14	12	61
	RedHouse	9	23	15	11	58
	Total	36	124	68	62	290

Level of Education	*Element*	*Primary*	*Secondary*	*Thirtiary*	*Academic*	*Total*
	ParkwayP	6	74	51	34	165
	KtngShpC	6	63	48	31	148
	ECRd	3	36	31	23	93
	JooChiat	4	29	23	14	70
	KatongMa	3	23	23	15	64
	RoxySq	5	28	15	13	61
	RedHouse	4	26	14	14	58
	Total	12	118	89	71	290

Frequent Travel Mode	*Element*	*Bus*	*MRT*	*Car*	*Walk*	*Total*
	ParkwayP	101	2	43	19	165
	KtngShpC	95	3	32	18	148
	ECRd	51	1	29	12	93
	JooChiat	34	2	22	12	70
	KatongMa	29	2	19	14	64
	RoxySq	33	1	13	14	61
	RedHouse	28	2	19	9	58
	Total	162	4	88	36	290

Period of Stay	*Element*	*< 1yr*	*1-3yrs*	*3-10yrs*	*> 10yrs*	*Total*
	ParkwayP	3	14	83	65	165
	KtngShpC	5	17	68	58	148
	ECRd	4	12	33	44	93
	JooChiat	3	12	24	31	70
	KatongMa	2	14	22	26	64
	RoxySq	1	9	25	26	61
	RedHouse	3	13	19	23	58
	Total	5	20	123	142	290

Appendix : 6.3

Percentage of respondents, mentioned most stated spatial elements from different personnal characteristics

Panadura

Age	*Element*	*< 20yrs*	*21-30yrs*	*30-50yrs*	*< 50yrs*	*Total*
	RankothV	17	61	33	29	140
	Gunanand	16	54	33	27	130
	SamadhiB	12	58	26	24	120
	ClockTow	12	56	29	23	120
	BusTerm1	14	55	25	14	108
	Hospital	9	54	21	15	99
	RailSt	10	28	10	9	57
	Total	29	126	78	62	295

Level of Education	*Element*	*Primary*	*Secondary*	*Thirtiary*	*Academic*	*Total*
	RankothV	21	88	15	16	140
	Gunanand	18	89	12	11	130
	SamadhiB	11	74	16	19	120
	ClockTow	12	64	22	22	120
	BusTerm1	18	61	17	12	108
	Hospital	13	53	18	15	99
	RailSt	11	23	11	12	57
	Total	40	162	46	47	295

Frequent Travel Mode	*Element*	*Bus*	*MRT*	*Car*	*Walk*	*Total*
	RankothV	96	22	12	10	140
	Gunanand	87	19	15	9	130
	SamadhiB	81	11	21	7	120
	ClockTow	76	21	14	9	120
	BusTerm1	71	13	16	8	108
	Hospital	61	11	16	11	99
	RailSt	22	19	9	7	57
	Total	180	42	43	30	295

Period of Stay	*Element*	*< 1yr*	*1-3yrs*	*3-10yrs*	*> 10yrs*	*Total*
	RankothV	4	16	24	96	140
	Gunanand	4	12	12	101	129
	SamadhiB	5	17	19	79	120
	ClockTow	6	19	24	71	120
	BusTerm1	3	14	19	72	108
	Hospital	3	11	12	73	99
	RailSt	1	7	11	38	57
	Total	7	29	46	213	295

Appendix 6.4: The ratios of responses received by spatial elemenets under each semantic category

Key;

History	_	History of the Place	*Age*	_	Seen in the Locality for a long tine
Rel/Cul	_	Religious, Cultural or Social Significance	*Per/Emo*	_	Has Personal or Emotional Attachment
Bty/Arc	_	Scenic Beauty, Architecture or Prominence	*Bty/Amb*	_	Prefered Ambience or Beauty
Location	_	Locational Characteristics	*Conven*	_	Convenience for day to day Activities
Useful	_	Usefulness for day to day life	*Encount*	_	Encountered in Usual Route
Special	_	Speciality of Activity or People	*Acti/Ppl*	_	Liked the Activities in it
Aware	_	Awareness among general public	*OtherL*	_	Other Liking
OtherR	-	Other Reason and No Idea	*Old*	_	Old/ Dilapidated and did not like
			Dirt/Dis	_	Dirty/Disorderly place
			Crowd	_	Crowded/ Congested Place
			OtherD	_	Other Disliking/ No reason, but did not like

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Sptl. Element	*History*	*Rel/Cul*	*Bty/Arc*	*Location*	*Useful*	*Special*	*Aware*	*Other R*	*Age*	*Per/Emo*	*Bty/Amb*	*Conven*	*Encount*	*Acti/Ppl*	*OtherL*	*Old*	*Dirt/Dis*	*Crowd*	*OtherD*
MRT	0.01	0.00	0.11	0.24	0.40	0.09	0.11	0.05	0	0.02	0.34	0.39	0.20	0.04	0.00	0	0	0	0.00
BusTerm	0.00	0.00	0.01	0.09	0.56	0.19	0.10	0.05	0	0.02	0.00	0.43	0.41	0.00	0.01	0.02	0.04	0.00	0.07
Shops	0.05	0.00	0.15	0.16	0.44	0.11	0.05	0.04	0.05	0.06	0.14	0.35	0.10	0.08	0.02	0.05	0.02	0.10	0.03
NTUC	0.01	0.00	0.15	0.08	0.10	0.45	0.15	0.06	0.00	0.03	0.17	0.50	0.06	0.14	0.06	0.00	0.00	0.03	0.00
Fountain	0.08	0.06	0.68	0.06	0.01	0.05	0.02	0.05	0.06	0.07	0.53	0.02	0.13	0.00	0.06	0.02	0.06	0.00	0.04
McDonalds	0.00	0.00	0.05	0.08	0.22	0.37	0.21	0.08	0.07	0.01	0.04	0.41	0.13	0.11	0.05	0.02	0.01	0.10	0.07
Sports	0.02	0.00	0.18	0.08	0.10	0.44	0.08	0.09	0.05	0.13	0.27	0.04	0.05	0.36	0.08	0.00	0.00	0.00	0.02
Cinema	0.03	0.00	0.35	0.02	0.19	0.35	0.03	0.02	0.10	0.08	0.04	0.32	0.01	0.10	0.00	0.32	0.00	0.00	0.03
POSB	0.14	0.00	0.12	0.05	0.26	0.30	0.05	0.07	0.02	0.03	0.09	0.40	0.05	0.21	0.09	0.00	0.00	0.12	0.00
PrimSch	0.15	0.04	0.23	0.04	0.12	0.33	0.08	0.02	0.04	0.37	0.24	0.02	0.14	0.12	0.06	0.00	0.00	0.00	0.00
CofShp4	0.00	0.00	0.15	0.09	0.44	0.15	0.12	0.06	0.08	0.16	0.03	0.13	0.08	0.16	0.08	0.11	0.05	0.11	0.03
ClkTower	0.37	0.00	0.09	0.06	0.31	0.03	0.09	0.06	0.49	0.22	0.05	0.00	0.11	0.00	0.05	0.08	0.00	0.00	0.00
PolyClinic	0.17	0.00	0.06	0.06	0.34	0.14	0.17	0.06	0.06	0.06	0.18	0.24	0.00	0.36	0.00	0.00	0.00	0.06	0.03
Cofshp1	0.06	0.00	0.03	0.09	0.34	0.31	0.09	0.09	0.03	0.14	0.03	0.00	0.00	0.62	0.14	0.03	0.00	0.00	0.00
CWAv	0.06	0.00	0.06	0.18	0.27	0.18	0.15	0.09	0.00	0.00	0.10	0.24	0.41	0.00	0.03	0.00	0.00	0.21	0.00
HDBCtr	0.07	0.00	0.21	0.07	0.32	0.21	0.07	0.04	0.00	0.00	0.46	0.23	0.12	0.19	0.00	0.00	0.00	0.00	0.00
WetMarket	0.07	0.00	0.00	0.04	0.37	0.41	0.07	0.04	0.07	0.04	0.00	0.25	0.00	0.14	0.00	0.04	0.18	0.14	0.14
DarusMosq	0.10	0.60	0.13	0.00	0.03	0.03	0.07	0.03	0.05	0.75	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00

CofShp3	0.08	0.00	0.04	0.04	0.46	0.27	0.08	0.04	0.05	0.10	0.05	0.10	0.00	0.57	0.05	0.00	0.00	0.10	0.00
BkShop	0.00	0.00	0.10	0.10	0.40	0.25	0.10	0.05	0.00	0.00	0.27	0.07	0.07	0.53	0.07	0.00	0.00	0.00	0.00
SecSch	0.11	0.05	0.11	0.05	0.00	0.53	0.11	0.05	0.07	0.67	0.13	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00
NUS	0.12	0.00	0.08	0.00	0.04	0.46	0.31	0.00	0.12	0.00	0.35	0.00	0.06	0.41	0.00	0.00	0.00	0.00	0.06
Bestway	0.05	0.00	0.14	0.10	0.14	0.43	0.10	0.05	0.00	0.00	0.31	0.19	0.00	0.44	0.00	0.00	0.00	0.00	0.06
BookShp	0.06	0.00	0.06	0.13	0.13	0.50	0.06	0.06	0.00	0.27	0.00	0.00	0.00	0.60	0.13	0.00	0.00	0.00	0.00
PolyTech	0.14	0.00	0.10	0.00	0.00	0.57	0.10	0.10	0.12	0.12	0.12	0.00	0.12	0.41	0.00	0.00	0.00	0.00	0.12
CofShp2	0.06	0.00	0.19	0.06	0.31	0.13	0.06	0.19	0.06	0.13	0.06	0.00	0.00	0.50	0.13	0.00	0.00	0.00	0.13
PoliceHQ	0.00	0.00	0.15	0.00	0.15	0.54	0.00	0.15	0.00	0.00	0.07	0.00	0.27	0.40	0.00	0.00	0.00	0.00	0.27
ClemPark	0.00	0.00	0.58	0.08	0.08	0.08	0.00	0.17	0.00	0.06	0.44	0.00	0.25	0.13	0.13	0.00	0.00	0.00	0.00
BudTem	0.25	0.44	0.13	0.00	0.00	0.00	0.13	0.06	0.06	0.50	0.11	0.00	0.11	0.11	0.00	0.00	0.00	0.00	0.11
Church	0.13	0.40	0.27	0.00	0.00	0.13	0.07	0.00	0.14	0.71	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TC	0.00	0.00	0.08	0.08	0.33	0.25	0.08	0.17	0.00	0.00	0.00	0.67	0.08	0.17	0.00	0.00	0.00	0.00	0.08
NHPrimSch	0.19	0.00	0.00	0.00	0.00	0.44	0.25	0.13	0.15	0.31	0.08	0.00	0.15	0.15	0.08	0.00	0.00	0.00	0.08
Av1	0.00	0.00	0.21	0.29	0.21	0.07	0.00	0.21	0.00	0.00	0.18	0.45	0.36	0.00	0.00	0.00	0.00	0.00	0.00
ComCtr	0.00	0.00	0.30	0.20	0.10	0.40	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.56	0.22	0.00	0.00	0.00	0.00
FireStn	0.10	0.00	0.40	0.00	0.00	0.30	0.10	0.10	0.00	0.00	0.22	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.11
JurClinic	0.29	0.00	0.00	0.14	0.07	0.21	0.21	0.07	0.55	0.18	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.00
SwimCom	0.00	0.00	0.40	0.10	0.00	0.30	0.00	0.20	0.00	0.00	0.33	0.11	0.22	0.33	0.00	0.00	0.00	0.00	0.00
NewTower	0.00	0.00	0.86	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.22	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.11
Clemwoods	0.00	0.00	0.70	0.10	0.00	0.10	0.10	0.00	0.00	0.00	0.50	0.00	0.25	0.00	0.25	0.00	0.00	0.00	0.00
WCSports	0.00	0.00	0.30	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.25	0.00	0.38	0.25	0.13	0.00	0.00	0.00	0.00
OldCinema	0.43	0.00	0.00	0.00	0.00	0.43	0.14	0.00	0.25	0.00	0.00	0.00	0.38	0.00	0.00	0.38	0.00	0.00	0.00
Postof	0.40	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.13	0.00	0.25	0.13	0.00	0.50	0.00	0	0.00	0.00	0.00
Total	30	6	37	30	30	40	35	35	24	27	36	22	30	31	22	10	6	9	21

Dehiwala

Sptl. Element	*History*	*Rel/Cul*	*Bty/Arc*	*Location*	*Useful*	*Special*	*Aware*	*Other R*	*Age*	*Per/Emo*	*Bty/Amb*	*Conven*	*Encount*	*Acti/Pple*	*OtherL*	*Old*	*Dirt/Dis*	*Crowded*	*Other D*
Zoo	0.01	0.05	0.12	0.05	0.00	0.34	0.30	0.13	0.01	0.01	0.66	0.01	0.02	0.23	0.05	0.00	0.00	0.00	0.00
Junction	0.00	0.00	0.06	0.40	0.40	0.09	0.00	0.05	0.00	0.06	0.16	0.32	0.20	0.00	0.00	0.00	0.10	0.12	0.04
RailSt	0.01	0.00	0.06	0.08	0.71	0.14	0.00	0.00	0.00	0.00	0.06	0.38	0.27	0.02	0.02	0.08	0.13	0.02	0.03
FrenchCorner	0.00	0.00	0.16	0.02	0.10	0.72	0.00	0.00	0.00	0.03	0.33	0.05	0.00	0.55	0.00	0.00	0.03	0.03	0.00
Arpico	0.00	0.00	0.18	0.06	0.12	0.64	0.00	0.00	0.00	0.00	0.64	0.10	0.00	0.21	0.00	0.00	0.00	0.02	0.02
TownHall	0.00	0.00	0.06	0.04	0.35	0.50	0.00	0.05	0.00	0.00	0.32	0.16	0.12	0.12	0.12	0.00	0.00	0.00	0.16
Beach	0.00	0.13	0.34	0.00	0.04	0.49	0.00	0.00	0.00	0.06	0.74	0.00	0.03	0.15	0.00	0.00	0.03	0.00	0.00

HillSt	0.00	0.00	0.15	0.30	0.43	0.08	0.00	0.04	0.00	0.00	0.62	0.14	0.14	0.00	0.05	0.00	0.00	0.00	0.05
Police	0.00	0.00	0.00	0.00	0.06	0.90	0.00	0.04	0.00	0.00	0.00	0.05	0.14	0.14	0.05	0.00	0.00	0.05	0.57
GalleRd2	0.10	0.00	0.00	0.00	0.20	0.00	0.70	0.00	0.00	0.00	0.00	0.17	0.83	0.00	0.00	0.00	0.00	0.00	0.00
CatholicCh	0.03	0.83	0.07	0.00	0.00	0.07	0.00	0.00	0.22	0.33	0.33	0.00	0.06	0.06	0.00	0.00	0.00	0.00	0.00
GalleRd1	0.17	0.00	0.00	0.17	0.25	0.08	0.33	0.00	0.00	0.00	0.00	0.40	0.40	0.00	0.10	0.00	0.10	0.00	0.00
YMBA	0.00	0.40	0.04	0.00	0.16	0.40	0.00	0.00	0.16	0.00	0.21	0.05	0.05	0.16	0.05	0.11	0.00	0.00	0.21
Deshani	0.00	0.00	0.11	0.04	0.11	0.71	0.00	0.03	0.00	0.00	0.31	0.06	0.00	0.25	0.06	0.00	0.00	0.19	0.13
BigApple	0.00	0.05	0.15	0.00	0.15	0.60	0.00	0.05	0.00	0.00	0.38	0.00	0.00	0.38	0.00	0.00	0.00	0.00	0.25
KaragamTem	0.31	0.38	0.21	0.02	0.00	0.04	0.02	0.02	0.06	0.26	0.58	0.00	0.03	0.03	0.03	0.00	0.00	0.00	0.03
MalwattaRd	0.07	0.39	0.08	0.07	0.14	0.00	0.00	0.25	0.00	0.11	0.33	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.44
StationRd	0.00	0.00	0.00	0.35	0.50	0.15	0.00	0.00	0.00	0.00	0.50	0.00	0.20	0.00	0.10	0.00	0.10	0.00	0.10
JayasingheGnd	0.00	0.04	0.19	0.04	0.00	0.63	0.10	0.00	0.06	0.00	0.00	0.67	0.00	0.06	0.28	0.00	0.00	0.00	0.00
ConcordCinema	0.00	0.09	0.04	0.00	0.00	0.78	0.00	0.09	0.00	0.00	0.25	0.00	0.08	0.58	0.00	0.00	0.00	0.00	0.08
Sathosa	0.00	0.00	0.00	0.20	0.50	0.30	0.00	0.00	0.00	0.08	0.17	0.00	0.00	0.50	0.00	0.00	0.08	0.08	0.08
VaidyaRd	0.00	0.00	0.00	0.31	0.38	0.00	0.00	0.31	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80
KaudanaRd	0.00	0.00	0.08	0.39	0.39	0.02	0.00	0.12	0.00	0.14	0.29	0.29	0.00	0.00	0.00	0.14	0.14	0.00	0.00
Market	0.00	0.00	0.00	0.00	0.38	0.50	0.00	0.12	0.00	0.00	0.14	0.14	0.14	0.14	0.00	0.00	0.43	0.00	0.00
SampathB	0.00	0.00	0.10	0.10	0.50	0.30	0.00	0.00	0.00	0.17	0.33	0.17	0.17	0.17	0.00	0.00	0.00	0.00	0.00
HolyFamilyCon	0.20	0.15	0.00	0.00	0.05	0.60	0.00	0.00	0.29	0.29	0.14	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00
SeylanB	0.00	0.00	0.00	0.00	0.82	0.18	0.00	0.00	0.00	0.13	0.13	0.50	0.25	0.00	0.00	0.00	0.00	0.00	0.00
DivisionalSec	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.11	0.00	0.00	0.00	0.38	0.25	0.25	0.00	0.00	0.00	0.00	0.13
StMarysSch	0.02	0.03	0.00	0.05	0.17	0.61	0.00	0.12	0.14	0.29	0.00	0.14	0.00	0.29	0.00	0.00	0.00	0.00	0.14
CommercialB	0.00	0.00	0.03	0.02	0.62	0.31	0.00	0.02	0.00	0.14	0.14	0.29	0.29	0.14	0.00	0.00	0.00	0.00	0.00
WilliamGri	0.10	0.00	0.10	0.20	0.20	0.10	0.20	0.10	0.00	0.00	0.00	0.00	0.67	0.17	0.00	0.00	0.00	0.00	0.17
Hospital	0.00	0.00	0.00	0.00	0.00	0.80	0.20	0.00	0.15	0.15	0.00	0.15	0.08	0.15	0.08	0.00	0.08	0.08	0.08
PizzaHut	0.00	0.00	0.30	0.00	0.00	0.50	0.00	0.20	0.00	0.25	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LuckeySt	0.00	0.00	0.20	0.00	0.00	0.00	0.70	0.10	0.00	0.00	0.25	0.25	0.25	0.25	0.00	0.00	0.00	0.00	0.00
Bata	0.00	0.00	0.10	0.10	0.30	0.50	0.00	0.00	0.00	0.29	0.29	0.14	0.14	0.14	0.00	0.00	0.00	0.00	0.00
MalaSt	0.00	0.00	0.10	0.00	0.10	0.50	0.10	0.20	0.00	0.14	0.29	0.29	0.14	0.14	0.00	0.00	0.00	0.00	0.00
SubodharamaTem	0.00	0.60	0.30	0.00	0.00	0.00	0.00	0.10	0.00	0.40	0.40	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00
BusTerm	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.43	0.14	0.14
Supermarket	0.00	0.00	0.00	0.08	0.50	0.42	0.00	0.00	0.00	0.13	0.00	0.38	0.00	0.25	0.00	0.00	0.13	0.13	0.00
JayanthiMahal	0.00	0.00	0.00	0.00	0.30	0.70	0.00	0.00	0.17	0.17	0.33	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.17
DarshanikaramaTe	0.10	0.30	0.20	0.00	0.10	0.20	0.10	0.00	0.13	0.25	0.38	0.13	0.00	0.00	0.13	0.00	0.00	0.00	0.00
KaragamJunc	0.00	0.00	0.00	0.30	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.29	0.00	0.00	0.00	0.14	0.29	0.00
PresbeterianSch	0.20	0.20	0.10	0.00	0.00	0.40	0.00	0.10	0.40	0.40	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OpenDoorCh	0.20	0.50	0.20	0.00	0.00	0.00	0.00	0.10	0.20	0.40	0.20	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00
CentralSch	0.00	0.00	0.00	0.00	0.00	0.80	0.10	0.10	0.17	0.33	0.08	0.00	0.08	0.17	0.00	0.00	0.00	0.00	0.17
ImpalaH	0.00	0.00	0.00	0.02	0.70	0.00	0.07	0.21	0.00	0.18	0.09	0.27	0.18	0.09	0.00	0.00	0.09	0.00	0.09
JayasingheHall	0.00	0.00	0.40	0.00	0.00	0.40	0.00	0.20	0.00	0.00	0.20	0.10	0.10	0.40	0.10	0.00	0.00	0.00	0.10
FoodCity	0.00	0.00	0.20	0.00	0.30	0.50	0.00	0.00	0.00	0.11	0.11	0.22	0.22	0.22	0.00	0.00	0.00	0.11	0.00
MedicalCentre	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.29	0.29	0.00	0.29	0.14	0.00	0.00	0.00	0.00
Cemetery	0.10	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.11	0.67	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00
Library	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.10	0.20	0.10	0.20	0.00	0.20	0.10	0.10	0.00	0.00	0.00
PostOffice	0.00	0.00	0.00	0.00	0.20	0.80	0.00	0.00	0.13	0.00	0.13	0.00	0.00	0.25	0.13	0.13	0.13	0.00	0.13
Olympic	0.00	0.00	0.20	0.00	0.40	0.40	0.00	0.00	0.00	0.20	0.40	0.20	0.20	0.00	0.00	0.00	0.00	0.00	0.00
VishnuKovil	0.20	0.70	0.00	0.00	0.00	0.00	0.00	0.10	0.25	0.38	0.25	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00
Total	15	16	31	24	36	44	12	27	16	32	42	35	33	36	17	5	15	12	25

Katong

Sptl. Element	*History*	*Rel/Cul*	*Bty/Arc*	*Location*	*Useful*	*Special*	*Aware*	*Other R*	*Age*	*Per/Emo*	*Bty/Amb*	*Conven*	*Encount*	*Acti/Pple*	*OtherL*	*Old*	*Dirt/Dis*	*Crowded*	*OtherD*
ParkwayP	0.00	0.02	0.16	0.05	0.18	0.50	0.05	0.03	0.00	0.02	0.12	0.08	0.19	0.54	0.04	0.01	0.00	0.00	0.00
KtngShpCentre	0.20	0.02	0.07	0.04	0.27	0.24	0.07	0.10	0.04	0.04	0.03	0.00	0.17	0.27	0.19	0.27	0.01	0.00	0.00
ECRd	0.03	0.00	0.18	0.12	0.42	0.15	0.00	0.10	0.07	0.00	0.16	0.00	0.33	0.31	0.11	0.02	0.00	0.00	0.00
JooChiatRd	0.40	0.12	0.20	0.00	0.08	0.08	0.08	0.04	0.09	0.05	0.32	0.00	0.09	0.36	0.09	0.00	0.00	0.00	0.00
KatongMall	0.00	0.00	0.07	0.03	0.57	0.19	0.03	0.10	0.00	0.00	0.00	0.00	0.00	0.40	0.33	0.00	0.00	0.00	0.27
RoxySq	0.00	0.00	0.03	0.03	0.56	0.13	0.08	0.18	0.06	0.00	0.00	0.08	0.26	0.13	0.23	0.25	0.00	0.00	0.00
RedHouse	0.35	0.05	0.16	0.00	0.05	0.12	0.19	0.09	0.13	0.07	0.20	0.00	0.03	0.37	0.10	0.10	0.00	0.00	0.00
TKGirlsSch	0.00	0.08	0.00	0.00	0.00	0.79	0.10	0.03	0.11	0.31	0.14	0.00	0.00	0.06	0.36	0.00	0.00	0.00	0.03
TKSecSch	0.09	0.00	0.00	0.00	0.03	0.82	0.06	0.00	0.00	0.27	0.23	0.00	0.00	0.05	0.41	0.00	0.00	0.00	0.05
HolyFamily	0.42	0.26	0.13	0.00	0.00	0.09	0.06	0.04	0.18	0.35	0.18	0.00	0.12	0.06	0.12	0.00	0.00	0.00	0.00
MPLibrary	0.00	0.00	0.17	0.00	0.07	0.76	0.00	0.00	0.00	0.05	0.33	0.00	0.05	0.33	0.23	0.00	0.00	0.00	0.00
SengapVinyaTem	0.36	0.30	0.13	0.00	0.00	0.06	0.15	0.00	0.11	0.28	0.25	0.00	0.11	0.08	0.11	0.00	0.00	0.00	0.06
NTUC	0.00	0.00	0.00	0.00	0.66	0.30	0.04	0.00	0.00	0.04	0.12	0.12	0.27	0.27	0.15	0.00	0.00	0.00	0.04
KtngComplex	0.11	0.00	0.00	0.00	0.33	0.56	0.00	0.00	0.08	0.04	0.00	0.08	0.00	0.35	0.15	0.27	0.04	0.00	0.00
ECPark	0.02	0.15	0.34	0.02	0.00	0.41	0.05	0.00	0.00	0.00	0.46	0.00	0.04	0.42	0.08	0.00	0.00	0.00	0.00
TKRoad	0.16	0.00	0.05	0.32	0.37	0.00	0.05	0.05	0.12	0.06	0.00	0.12	0.41	0.00	0.24	0.06	0.00	0.00	0.00
MasjidKMosq	0.13	0.67	0.00	0.00	0.00	0.20	0.00	0.00	0.05	0.30	0.15	0.05	0.15	0.05	0.10	0.00	0.00	0.00	0.15
SiglapCentre	0.00	0.00	0.12	0.08	0.44	0.32	0.00	0.04	0.00	0.00	0.10	0.15	0.00	0.40	0.30	0.05	0.00	0.00	0.00
VictJunSch	0.00	0.11	0.04	0.00	0.04	0.70	0.11	0.00	0.00	0.40	0.27	0.00	0.00	0.13	0.13	0.00	0.00	0.00	0.07
LionCity	0.10	0.00	0.00	0.00	0.15	0.55	0.05	0.15	0.00	0.06	0.00	0.00	0.29	0.24	0.24	0.18	0.00	0.00	0.00

CeylonRd	0.00	0.00	0.00	0.40	0.60	0.00	0.00	0.00	0.00	0.08	0.08	0.25	0.33	0.08	0.17	0.00	0.00	0.00	0.00
StPatricsSch	0.00	0.13	0.00	0.00	0.00	0.81	0.06	0.00	0.07	0.36	0.00	0.00	0.00	0.07	0.50	0.00	0.00	0.00	0.00
SiglapRd	0.00	0.00	0.06	0.06	0.25	0.63	0.00	0.00	0.00	0.06	0.06	0.06	0.00	0.50	0.25	0.00	0.00	0.06	0.00
MandarinGarden	0.00	0.00	0.14	0.00	0.71	0.00	0.00	0.14	0.00	0.29	0.29	0.05	0.00	0.00	0.29	0.00	0.00	0.00	0.10
NeptuneCourt	0.00	0.00	0.10	0.00	0.40	0.30	0.00	0.20	0.00	0.17	0.33	0.17	0.00	0.00	0.17	0.00	0.00	0.00	0.17
CityPlaza	0.00	0.00	0.12	0.08	0.44	0.32	0.00	0.04	0.00	0.00	0.00	0.00	0.22	0.22	0.33	0.22	0.00	0.00	0.00
EastShoreHos	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.11	0.11	0.22	0.11	0.33	0.11	0.00	0.00	0.00	0.00
KtngConvent	0.00	0.00	0.00	0.00	0.00	0.91	0.00	0.09	0.00	0.46	0.00	0.00	0.00	0.08	0.46	0.00	0.00	0.00	0.00
KtngLaksa	0.00	0.22	0.00	0.00	0.00	0.11	0.56	0.11	0.00	0.00	0.00	0.00	0.00	0.73	0.13	0.07	0.00	0.00	0.07
BuddistTem	0.25	0.50	0.00	0.00	0.00	0.08	0.17	0.00	0.00	0.30	0.10	0.00	0.20	0.10	0.10	0.10	0.00	0.00	0.10
JooChiatCofShp1	0.50	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.18	0.18	0.09	0.18	0.18	0.09	0.09	0.00	0.00	0.00	0.00
84Market	0.00	0.00	0.00	0.20	0.50	0.30	0.00	0.00	0.00	0.00	0.00	0.29	0.14	0.29	0.14	0.00	0.00	0.14	0.00
MtBattonRd	0.20	0.00	0.30	0.50	0.20	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.57	0.14	0.14	0.00	0.00	0.00	0.00
HaigRd	0.00	0.00	0.00	0.20	0.70	0.00	0.00	0.10	0.00	0.20	0.00	0.00	0.40	0.20	0.00	0.00	0.00	0.20	0.00
MarineParade	0.00	0.00	0.20	0.30	0.50	0.00	0.00	0.00	0.00	0.29	0.14	0.29	0.29	0.00	0.00	0.00	0.00	0.00	0.00
JooChiatComplex	0.00	0.00	0.00	0.00	0.20	0.30	0.00	0.00	0.00	0.11	0.11	0.33	0.22	0.00	0.00	0.00	0.11	0.00	0.11
JooChiatComCentr	0.00	0.00	0.00	0.30	0.40	0.30	0.00	0.00	0.00	0.17	0.17	0.17	0.33	0.17	0.00	0.00	0.00	0.00	0.00
ParamountH	0.00	0.00	0.30	0.00	0.10	0.20	0.20	0.20	0.00	0.00	0.33	0.00	0.17	0.33	0.17	0.00	0.00	0.00	0.00
ChiSwimClub	0.00	0.00	0.00	0.00	0.20	0.60	0.10	0.10	0.00	0.17	0.00	0.00	0.33	0.33	0.17	0.00	0.00	0.00	0.00
KtngVillage	0.10	0.00	0.00	0.20	0.00	0.70	0.00	0.00	0.11	0.22	0.11	0.00	0.22	0.22	0.11	0.00	0.00	0.00	0.00
MPPolice	0.00	0.00	0.00	0.20	0.20	0.60	0.00	0.00	0.00	0.00	0.00	0.14	0.29	0.29	0.00	0.00	0.00	0.00	0.29
Total	16	13	21	18	30	34	20	20	14	30	28	18	29	36	36	12	3	3	13

Panadura

Sptl. Element	*History*	*Rel/Cul*	*Bty/Arc*	*Location*	*Useful*	*Special*	*Aware*	*OtherR*	*Age*	*Per/Emo*	*Bty/Amb*	*Conven*	*Encount*	*Acti/Pple*	*OtherL*	*Old*	*Dirt/Dis*	*Crowded*	*OtherD*
RankothVihara	0.30	0.39	0.10	0.01	0.00	0.05	0.12	0.03	0.15	0.53	0.28	0.01	0.00	0.02	0.01	0.00	0.00	0.00	0.01
GunanandaSt	0.46	0.28	0.03	0.10	0.00	0.00	0.11	0.03	0.46	0.25	0.21	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.02
SamadhiSt	0.02	0.33	0.14	0.34	0.00	0.00	0.15	0.02	0.03	0.42	0.51	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.01
ClockTower	0.02	0.00	0.19	0.28	0.50	0.00	0.01	0.00	0.14	0.00	0.16	0.07	0.05	0.00	0.03	0.01	0.01	0.49	0.05
BusTerm1	0.00	0.01	0.00	0.02	0.86	0.08	0.03	0.00	0.00	0.02	0.08	0.26	0.22	0.04	0.05	0.00	0.16	0.14	0.03
Hospital	0.00	0.02	0.00	0.02	0.35	0.57	0.03	0.01	0.00	0.01	0.00	0.44	0.05	0.21	0.05	0.00	0.07	0.00	0.16
SriSumangala	0.04	0.20	0.02	0.00	0.00	0.44	0.30	0.00	0.03	0.42	0.51	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.01
RailSt	0.03	0.03	0.05	0.00	0.85	0.00	0.00	0.04	0.04	0.04	0.32	0.28	0.23	0.00	0.04	0.02	0.00	0.00	0.02
JanapriyaMw	0.00	0.00	0.02	0.20	0.46	0.28	0.00	0.04	0.00	0.09	0.03	0.18	0.06	0.21	0.06	0.00	0.03	0.21	0.12
GalgodaTem	0.40	0.45	0.08	0.03	0.00	0.00	0.04	0.00	0.11	0.56	0.30	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00

Market	0.00	0.00	0.00	0.03	0.71	0.26	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.21	0.04	0.00	0.11	0.29	0.07
BusTerm2	0.00	0.00	0.00	0.00	0.86	0.14	0.00	0.00	0.00	0.04	0.04	0.30	0.22	0.07	0.04	0.00	0.04	0.11	0.15
Police	0.00	0.00	0.00	0.00	0.17	0.83	0.00	0.00	0.00	0.06	0.00	0.06	0.09	0.23	0.14	0.00	0.00	0.00	0.43
Kethumathi	0.09	0.00	0.12	0.03	0.00	0.66	0.06	0.04	0.14	0.11	0.27	0.24	0.00	0.16	0.03	0.00	0.00	0.00	0.05
Grocery	0.00	0.00	0.00	0.05	0.75	0.15	0.00	0.05	0.00	0.00	0.19	0.41	0.07	0.22	0.11	0.00	0.00	0.00	0.00
GalleRd4	0.00	0.05	0.12	0.33	0.36	0.09	0.05	0.00	0.00	0.00	0.42	0.26	0.00	0.21	0.11	0.00	0.00	0.00	0.00
Beach	0.00	0.00	0.31	0.00	0.04	0.62	0.03	0.00	0.00	0.00	0.81	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00
TownHall	0.06	0.06	0.15	0.00	0.09	0.60	0.00	0.04	0.11	0.03	0.26	0.06	0.06	0.37	0.09	0.00	0.00	0.00	0.03
GalleRd3	0.00	0.00	0.00	0.43	0.50	0.00	0.05	0.02	0.00	0.00	0.20	0.50	0.00	0.10	0.20	0.00	0.00	0.00	0.00
PostOffice	0.05	0.00	0.00	0.00	0.52	0.43	0.00	0.00	0.05	0.00	0.35	0.35	0.00	0.05	0.15	0.00	0.00	0.00	0.05
NagaBodhi	0.00	0.50	0.13	0.37	0.00	0.00	0.00	0.00	0.00	0.30	0.40	0.05	0.20	0.00	0.00	0.00	0.05	0.00	0.00
Cargills	0.00	0.00	0.05	0.00	0.24	0.71	0.00	0.00	0.00	0.00	0.30	0.35	0.00	0.35	0.00	0.00	0.00	0.00	0.00
BalikaSch	0.00	0.02	0.00	0.00	0.12	0.73	0.00	0.13	0.00	0.30	0.10	0.10	0.20	0.20	0.10	0.00	0.00	0.00	0.00
PlayGnd	0.00	0.00	0.25	0.00	0.00	0.70	0.03	0.02	0.00	0.07	0.57	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00
OldRd2	0.10	0.05	0.10	0.25	0.45	0.00	0.05	0.00	0.05	0.05	0.20	0.25	0.05	0.20	0.05	0.05	0.00	0.00	0.10
Cinema	0.00	0.00	0.02	0.00	0.12	0.78	0.02	0.06	0.00	0.06	0.12	0.00	0.00	0.76	0.00	0.06	0.00	0.00	0.00
VadaBhoomi	0.67	0.22	0.00	0.00	0.00	0.00	0.11	0.00	0.73	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18
Kovil	0.24	0.50	0.02	0.00	0.00	0.16	0.00	0.08	0.07	0.43	0.00	0.00	0.00	0.29	0.07	0.00	0.00	0.00	0.14
Deshani	0.00	0.00	0.12	0.03	0.11	0.71	0.00	0.03	0.00	0.11	0.33	0.22	0.06	0.22	0.06	0.00	0.00	0.00	0.00
YMBA	0.00	0.46	0.08	0.00	0.00	0.38	0.08	0.00	0.00	0.23	0.08	0.08	0.00	0.54	0.00	0.00	0.00	0.00	0.08
StJohnsSch	0.13	0.06	0.04	0.00	0.02	0.65	0.06	0.04	0.18	0.27	0.18	0.00	0.00	0.18	0.09	0.09	0.00	0.00	0.00
HoranaRd	0.00	0.00	0.02	0.33	0.45	0.12	0.00	0.08	0.00	0.09	0.18	0.18	0.27	0.00	0.00	0.00	0.00	0.09	0.18
GalleRd2	0.00	0.00	0.00	0.39	0.55	0.02	0.00	0.04	0.00	0.10	0.10	0.40	0.20	0.00	0.10	0.00	0.00	0.00	0.10
Bridge	0.00	0.00	0.46	0.18	0.35	0.00	0.00	0.01	0.00	0.00	0.36	0.09	0.36	0.00	0.18	0.00	0.00	0.00	0.00
SeylanB	0.00	0.00	0.10	0.00	0.80	0.10	0.00	0.00	0.00	0.10	0.20	0.20	0.20	0.20	0.10	0.00	0.00	0.00	0.00
UrbanCuncil	0.00	0.00	0.00	0.00	0.50	0.50	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.25	0.25	0.00	0.00	0.00	0.13
DiasPlace	0.00	0.00	0.10	0.20	0.60	0.00	0.00	0.10	0.00	0.09	0.45	0.00	0.18	0.18	0.00	0.00	0.09	0.00	0.00
GalleRd5	0.00	0.00	0.00	0.40	0.50	0.00	0.00	0.10	0.00	0.13	0.38	0.25	0.25	0.00	0.00	0.00	0.00	0.00	0.00
AgamethiSch	0.00	0.20	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.25	0.13	0.25	0.00	0.25	0.13	0.00	0.00	0.00	0.00
SampathB	0.00	0.00	0.30	0.20	0.40	0.10	0.00	0.00	0.00	0.00	0.25	0.38	0.25	0.13	0.00	0.00	0.00	0.00	0.00
Sathosa	0.00	0.00	0.00	0.20	0.40	0.40	0.00	0.00	0.00	0.00	0.00	0.38	0.13	0.25	0.25	0.00	0.00	0.00	0.00
RiverView	0.00	0.00	0.80	0.00	0.00	0.10	0.00	0.10	0.00	0.17	0.67	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00
OsuSala	0.00	0.00	0.20	0.00	0.50	0.30	0.00	0.00	0.07	0.00	0.20	0.27	0.07	0.20	0.07	0.13	0.00	0.00	0.00
CatholicCh	0.20	0.60	0.10	0.00	0.00	0.00	0.10	0.00	0.11	0.33	0.22	0.06	0.17	0.06	0.00	0.00	0.00	0.00	0.06
Total	15	19	29	23	30	31	19	22	16	31	37	32	24	31	30	7	8	6	23

Appendix 6.5: Cluster membership of spatial elements

	Cluster (Type of spatial element)			
Special	***Utilitarian***	***Cultural***	***Reputed***	***Scenic***
Clementi				
Sports Complex	MRT Station	Darus Mosque	ClockTower	Fountain
Prim School	Bus Terminal	Buddhist Temple	Jurong Clinic	Clementi Park
Coffee Shop1	Shops	Clementi Church	Old Cinema	FireStation
Coffee Shop3	NTUC Store			NewTower
Book Shop	McDonalds			Clementi woods
Sec.School	Cinema			
NUS	POSB Bank			
Bestway	Coffee Shop4			
Book Shop2	PolyClinic			
Polytechnic	ComWel Avenue			
Coffee Shop2	HDB Centre			
Police Station	WetMarket			
NHPrim School	Town Council			
Com Centre	Avenue 1			
Swim Complex				
WestCoastSports				
Post office				
Dehiwala				
Zoo	Junction	Catholic Church	GalleRd2	Vaidya Road
French Corner	Rail Station	YMBA	Galle Road1	
Arpico Showroom	Hill Station	Karagam Temple	William Gri Mill	
Town Hall	Station Road	Malwatta Road	Luckey Store	
Beach	Kaudana Road	Subodharama Tem		
Police	Seylan Bank	DarshanikaramaTem		
Deshani	Commercial Bank	Presbeterian School		
BigApple	Bus Term	OpenDoor Church		
Jayasinghe Ground	Karagam Junction			
Concord Cinema	Impala Hotel			
Sathosa				
Market				
Sampath Bank				
HolyFamilyCon				
Divisional Sec				
StMarys School				
Hospital				
Pizza Hut				
Bata Shop				
Mala Stores				
Supermarket				
Jayanthi Mahal				
Central School				
Jayasinghe Hall				
Food City				
Medical Centre				
Cemetery				
Library				
Post Office				
Olympic				
Vishnu Kovil				

Appendix 6.5: Cluster membership of spatial elements

	Cluster (Type of spatial element)			
Special	***Utilitarian***	***Cultural***	***Reputed***	***Scenic***
Katong				
Parkway Parade				
TK Giri's School	Ktng Shop Centre	Joo Chiat Road	Ktng Laksa Shop	MtBatton Road
TK Sec School	East Coast Road	Red House Bakery		
MPLibrary	Katong Mall	Holy Family Church		
Ktng Complex	Roxy Square	SengapVinyaTemple		
VictJunior School	NTUC Store	East Coast Park		
Lion City	TK Road	MasjidK Mosque		
StPatrics School	Siglap Centre	Buddist Temple		
Siglap Road	Ceylon Road	Paramount House		
East Shore Hospital	Mandarin Garden			
Ktng Convent	Neptune Court			
Chinese Swim Club	City Plaza			
Katong Village	JooChiatCofShp1			
MP Police	84Market			
	Haig Road			
	Marine Parade Road			
	JooChiatComplex			
	JooChiatComCentre			
Panadura				
Police				
Kethumathi Hospital	ClockTower	RankothVihara	Gunananda Statue	Bridge
Beach	BusTerminal 1	Samadhi Statue	VadaBhoomi	RiverView
TownHall	Hospital	Sri Sumangala School		
Cargills	Rail Station	Galgoda Temple		
Balika School	Janapriya Mawatha	Naga Bodhi		
Play Ground	Market	Hindu Kovil		
Cinema	BusTerminal 2	Catholic Church		
Deshani	Grocery			
YMBA	Galle Road 4			
StJohns School	Galle Road 3			
Agamethi School	Post Office			
	Old Road 2			
	Horana Road			
	Galle Road 2			
	Seylan Bank			
	Urban Council			
	Dias Place			
	Galle Road 5			
	Sampath Bank			
	Sathosa			
	Osu Sala			

Appendix 7.1 : Matlab (6.1) Programme designed for the processing of data on attributes of spatial elements.

```
clear, close all;
%***************** Initialization Area
************************************************
%  Save this file after changing these data.
% Location of Excel files
%ExcelPath = 'C:\WINDOWS\Profiles\JAGATH MUNASINGHE\
                                        My Documents\Dehiwala\frequency\f';
%ExcelPath = 'C:\WINDOWS\Profiles\JAGATH MUNASINGHE\
                                        My Documents\Dehiwala\Importance\m';
ExcelPath = 'C:\WINDOWS\Profiles\JAGATH MUNASINGHE\
                                        My Documents\Panadura\Frequency\Fp';
%
%
%ExcelPath = 'test';

%*************** End of Initialization Area
*********************************************
while(1)
    disp('                  ,,.');
    disp('                 (o o)');
    disp('.------------oOO--(_)--OOo-----------------,');
    disp('| What do you want me to do ???            "|');
    disp('|                                           |');
    disp('|  1. Load data to matlab from Excel files  |');
    disp('|  2. Display categories found              |');
    disp('|  3. Search for A-B                        |');
    disp('|  4. Quit                                  |');
    disp('|  5. Category Found In                     |');
    disp('"-------------------------------------------" ');
    choice = input('Enter your choice 1-5 [5]:');
    disp(' ');
    if isempty(choice)
        choice = 5;
    end
    switch choice
    case 1
        NumberofSamples = input('Enter Number of Excel Data Files in the
Specified Direcory : ');
        disp(' ');
        for count=1:NumberofSamples
            if count < 10
                path = strcat(ExcelPath,'00',num2str(count),'.xls');
            end
            if ((count > 9)&(count < 100))
                path = strcat(ExcelPath,'0',num2str(count),'.xls');
            end
            if count > 99
                path = strcat(ExcelPath,num2str(count),'.xls');
            end

            [NumericData HeaderData] =xlsread(path);
            [m n] = size(NumericData);

        end
        CurrentNumberofCategories = 1;
        Category(1).name = 'zoo';
        Category(1).howmany = 0;
```

```
        for SampleCount = 1:NumberofSamples
            [m n] = size(SampleData(SampleCount).Categories);

            for count = 1:n
                CheckData = char(SampleData(SampleCount).Categories(count));
                Data = SampleData(SampleCount).RowNormalized(count);

                found = 0;
                for seek = 1:CurrentNumberofCategories
                    if (strcmp(lower(CheckData),lower(Category(seek).name))==1)
                        found = 1;
                        Category(seek).howmany = Category(seek).howmany + 1;
                        Category(seek).data(Category(seek).howmany) = Data;
                        Category(seek).foundIn(Category(seek).howmany) =
SampleCount;
                    end
                end

                if (found == 0)
                    CurrentNumberofCategories =CurrentNumberofCategories + 1;
                    Category(CurrentNumberofCategories).name = CheckData;
                    Category(CurrentNumberofCategories).howmany = 1;
                    Category(CurrentNumberofCategories).data = Data ;
                    Category(CurrentNumberofCategories).foundIn = SampleCount;
                end
            end
        end
        disp('All files are loaded successfully.');
        disp(' ');
    case 2
        list = char(Category.name);
        list1 = cellstr(list);
        disp(' ');
        disp(sort(list1));
        disp(' ');
    case 3
%       Insert Here**************
        str1 = input('Enter first category : ','s');
        str2 = input('Enter second category : ','s');
        frequency = 0;
        cell = 0;
        combinationfound = 0;

        for count=1:NumberofSamples
            str1found = 0;
            str2found = 0;
            [m n] = size(SampleData(count).MatrixNormalized);
            for seek = 1:m
                if
(strcmp(lower(str1),lower(SampleData(count).Categories(seek)))==1)
                    str1found = 1;
                    i = seek;
                    break;
                else
                    str1found = 0;
                end
            end
            for seek = 1:m
                if
(strcmp(lower(str2),lower(SampleData(count).Categories(seek)))==1)
                    str2found = 1;
                    j=seek;
                    break;
```

```
                else
                    str2found = 0;
                end
            end
            if (str1found==1)&(str2found==1)
                cell = cell + SampleData(count).MatrixNormalized(i,j);
                frequency = frequency + 1;
                combinationfound = 1;
            end
        end
        if combinationfound == 1
            tempstr1 = strcat('(',str1,',',str2,')',' Found,
',num2str(frequency),' Times...');
            tempstr = strcat('   Answer is,',num2str(cell/frequency));
            disp(' ');
            disp(tempstr1);
            disp(' ');
            disp(tempstr);
            disp(' ');
            disp(' ');

        else
            tempstr2 = strcat('(',str1,',',str2,')', ' Not Found');
            disp(tempstr2);
        end
%    *****************
    case 4
        disp('Bye');
        break;
    case 5
        temp = input('Input the name of the category :','s');
        disp (' ');
        for r=1:CurrentNumberofCategories
             if (strcmp(lower(temp),lower(Category(r).name))==1)
                 disp(Category(r).foundIn);
             end
         end
     end
end
```

Appendix 7.2:

The spatial elements, their frequency of stating and the measurements on attributes

Clementi

Element	*Stating*	*Encountering*	*Importance*	*Liking*	*Visibility*	*Connectivity*	*Prominence*
MRT Station	0.96	0.86	0.85	0.55	0.14	0.62	0.83
BusTerminal	0.91	0.81	0.77	0.45	0.08	0.71	0.57
Shops	0.84	0.77	0.56	0.65	0.15	1.00	0.91
NTUC Depart. Store	0.77	0.61	0.69	0.58	0.09	0.80	0.57
Fountain	0.75	0.65	0.48	0.76	0.11	0.88	0.74
McDonalds	0.70	0.60	0.47	0.54	0.11	0.80	0.54
Sports Complex	0.53	0.50	0.56	0.68	0.06	0.60	0.88
Cinema	0.25	0.46	0.57	0.54	0.07	0.63	0.63
POSB Bank	0.19	0.41	0.57	0.44	0.07	0.66	0.34
Primary School	0.18	0.74	0.82	0.58	0.07	0.52	0.95
Coffee Shop 4	0.14	0.58	0.58	0.62	0.03	0.37	0.46
Clock Tower	0.14	0.60	0.69	0.55	0.10	0.77	0.28
Poly Clinic	0.13	0.46	0.72	0.34	0.05	0.55	0.29
Coffee shop1	0.11	0.53	0.58	0.55	0.08	0.76	0.39
CommonWealth Av.	0.11	0.66	0.52	0.34	0.11	0.94	0.84
HDB Centre	0.10	0.54	0.44	0.43	0.11	0.59	0.75
Wet Market	0.09	0.50	0.47	0.37	0.06	0.64	0.42
Darus Mosque	0.09	0.76	0.74	0.67	0.04	0.39	0.68
Coffee Shop 3	0.08	0.45	0.48	0.56	0.05	0.63	0.46

Dehiwala

Element	*Stating*	*Encountering*	*Importance*	*Liking*	*Visibility*	*Connectivity*	*Prominence*
Zoological Gardens	0.53	0.36	0.78	0.61	0.07	0.32	0.83
Junction	0.38	0.89	0.83	0.51	0.51	0.62	0.71
Rail Station	0.36	0.61	0.79	0.47	0.15	0.41	0.63
FrenchCorner Dress Sp	0.29	0.66	0.42	0.68	0.20	0.42	0.36
Arpico Showroom	0.27	0.62	0.54	0.71	0.12	0.33	0.50
Town Hall	0.24	0.51	0.80	0.44	0.12	0.42	0.74
Sea Beach	0.21	0.54	0.60	0.68	0.11	0.37	0.83
Hill Street	0.19	0.63	0.61	0.45	0.17	0.54	0.66
Police Station	0.17	0.37	0.67	0.33	0.08	0.40	0.39
Galle Road (Segment 2)	0.17	0.87	0.64	0.45	0.24	0.57	0.97
Catholic Church	0.14	0.59	0.62	0.66	0.07	0.41	0.55
Galle Road (Segment 1)	0.14	0.82	0.62	0.45	0.23	0.50	0.93
YMBA Building	0.13	0.71	0.71	0.48	0.10	0.43	0.32
Deshani Dress Shop	0.12	0.55	0.38	0.53	0.12	0.33	0.26
BigApple Restaurant	0.12	0.54	0.38	0.55	0.18	0.39	0.41
Karagam Temple	0.11	0.48	0.74	0.67	0.09	0.38	0.55
Malwatta Road	0.10	0.53	0.51	0.33	0.08	0.41	0.39
Station Road	0.09	0.76	0.55	0.48	0.28	0.47	0.89
Jayasinghe Ground	0.09	0.61	0.48	0.49	0.07	0.31	0.67

Appendix 7.2:

The spatial elements, their frequency of stating and the measurements on attributes

Katong

Element	*Stating*	*Encountering*	*Importance*	*Liking*	*Visibility*	*Connectivity*	*Prominence*
Parkway Parade Mall	0.57	0.80	0.61	0.63	0.18	0.39	0.92
Katong Shopping Ctr.	0.51	0.53	0.52	0.54	0.17	0.57	0.50
Eeat Coast Road	0.32	0.76	0.47	0.65	0.28	0.77	0.82
Joo Chiat Road	0.24	0.60	0.63	0.66	0.08	0.61	0.89
Katong Mall	0.22	0.55	0.39	0.54	0.14	0.53	0.50
Roxy Square Shp. Comp	0.21	0.54	0.36	0.45	0.19	0.55	0.50
Red House Bakery	0.20	0.50	0.55	0.55	0.15	0.53	0.38
TK Girls School	0.16	0.46	0.65	0.45	0.12	0.42	0.86
TK Secondary School	0.16	0.52	0.65	0.34	0.11	0.47	0.78
Holy Family Church	0.15	0.55	0.76	0.59	0.14	0.53	0.66
MP Librarary	0.13	0.60	0.74	0.45	0.12	0.40	0.26
SengapVin.Hindu Kovil	0.11	0.44	0.79	0.65	0.05	0.41	0.54
NTUC Dept.Store	0.11	0.71	0.53	0.44	0.12	0.40	0.30
Katong Complex	0.10	0.68	0.63	0.37	0.06	0.35	0.54
East Coast Park	0.09	0.60	0.54	0.66	0.05	0.37	0.92
Tanjong Katong Road	0.09	0.61	0.47	0.34	0.07	0.44	0.75
Masjid K Mosque	0.09	0.77	0.72	0.61	0.07	0.46	0.34
Siglap Centre	0.09	0.68	0.45	0.51	0.05	0.29	0.54
Victoria Junior School	0.08	0.58	0.75	0.45	0.05	0.32	0.70

Panadura

Element	*Stating*	*Encountering*	*Importance*	*Liking*	*Visibility*	*Connectivity*	*Prominence*
Rankoth Vihara Temple	0.47	0.49	0.84	0.85	0.17	0.43	0.68
Rev. Gunananda Statue	0.44	0.58	0.78	0.66	0.08	0.46	0.33
Samadhi Buddha Image	0.41	0.60	0.73	0.77	0.05	0.43	0.35
Clock Tower	0.41	0.75	0.47	0.51	0.32	0.57	0.42
Bus Terminal 1	0.37	0.77	0.65	0.56	0.20	0.63	0.34
Hospital	0.34	0.65	0.83	0.43	0.14	0.46	0.55
Rail Station	0.19	0.58	0.70	0.67	0.05	0.39	0.63
Bus Terminal 2	0.18	0.77	0.72	0.51	0.16	0.45	0.28
Sri Sumangala G. School	0.17	0.46	0.67	0.79	0.05	0.36	0.40
Janapriya Mawatha	0.17	0.63	0.53	0.50	0.14	0.55	0.60
Police Station	0.16	0.53	0.70	0.34	0.14	0.46	0.24
Wet Market	0.15	0.60	0.65	0.49	0.06	0.42	0.28
Galle Road (Segment 4)	0.14	0.81	0.58	0.60	0.22	0.63	0.71
Town Hall	0.12	0.60	0.54	0.53	0.10	0.48	0.45
Panadura Grocers Shop	0.12	0.71	0.36	0.68	0.22	0.55	0.19
Galle Road (Segment 3)	0.12	0.79	0.52	0.49	0.23	0.60	0.45
Galgoda Temple	0.11	0.51	0.54	0.80	0.01	0.38	0.50
Sea Beach	0.11	0.41	0.37	0.78	0.05	0.37	0.66
Kethumathi Hospital	0.11	0.43	0.68	0.51	0.05	0.44	0.58
Cargills Supermarket	0.11	0.59	0.38	0.68	0.08	0.47	0.22
Balika School	0.09	0.64	0.58	0.79	0.20	0.50	0.53

Appendix 7.3: Bi-variate correlations between frequency of stating and the different attributes of the spatial elements

Clementi

		stating	*encountering*	*importance*	*liking*	*visibility*	*connectivity*	*prominence*
Stating	Pearson Correlation	1	.579(**)	.243	.361	.626(**)	.443	.384
	Sig. (2-tailed)	.	.009	.315	.128	.004	.058	.105
	N	19	19	19	19	19	19	19
encountering	Pearson Correlation	.579(**)	1	.580(**)	.285	.484(*)	.145	.573(*)
	Sig. (2-tailed)	.009	.	.009	.237	.036	.554	.010
	N	19	19	19	19	19	19	19
importance	Pearson Correlation	.243	.580(**)	1	.050	-.041	-.314	.099
	Sig. (2-tailed)	.315	.009	.	.839	.866	.190	.685
	N	19	19	19	19	19	19	19
Liking	Pearson Correlation	.361	.285	.050	1	.055	-.018	.368
	Sig. (2-tailed)	.128	.237	.839	.	.824	.943	.121
	N	19	19	19	19	19	19	19
Visibility	Pearson Correlation	.626(**)	.484(*)	-.041	.055	1	.749(**)	.442
	Sig. (2-tailed)	.004	.036	.866	.824	.	.000	.058
	N	19	19	19	19	19	19	19
connectivity	Pearson Correlation	.443	.145	-.314	-.018	.749(**)	1	.162
	Sig. (2-tailed)	.058	.554	.190	.943	.000	.	.507
	N	19	19	19	19	19	19	19
prominence	Pearson Correlation	.384	.573(*)	.099	.368	.442	.162	1
	Sig. (2-tailed)	.105	.010	.685	.121	.058	.507	.
	N	19	19	19	19	19	19	19

** Correlation is significant at the 0.01 level (2-tailed).

* Correlation is significant at the 0.05 level (2-tailed).

Appendix 7.3: Bi-variate correlations between frequency of stating and the different attributes of the spatial elements

Dehiwala

		stating	*encountering*	*importance*	*liking*	*visibility*	*connectivity*	*prominence*
stating	Pearson Correlation	1	-.129	.519(*)	.263	.198	.035	.221
	Sig. (2-tailed)	.	.597	.023	.277	.418	.887	.362
	N	19	19	19	19	19	19	19
encountering	Pearson Correlation	-.129	1	.020	-.090	.761(**)	.747(**)	.378
	Sig. (2-tailed)	.597	.	.934	.715	.000	.000	.111
	N	19	19	19	19	19	19	19
importance	Pearson Correlation	.519(*)	.020	1	-.131	.177	.333	.412
	Sig. (2-tailed)	.023	.934	.	.594	.467	.163	.080
	N	19	19	19	19	19	19	19
liking	Pearson Correlation	.263	-.090	-.131	1	-.092	-.358	-.031
	Sig. (2-tailed)	.277	.715	.594	.	.708	.132	.900
	N	19	19	19	19	19	19	19
visibility	Pearson Correlation	.198	.761(**)	.177	-.092	1	.792(**)	.346
	Sig. (2-tailed)	.418	.000	.467	.708	.	.000	.146
	N	19	19	19	19	19	19	19
connectivity	Pearson Correlation	.035	.747(**)	.333	-.358	.792(**)	1	.399
	Sig. (2-tailed)	.887	.000	.163	.132	.000	.	.090
	N	19	19	19	19	19	19	19
prominence	Pearson Correlation	.221	.378	.412	-.031	.346	.399	1
	Sig. (2-tailed)	.362	.111	.080	.900	.146	.090	.
	N	19	19	19	19	19	19	19

* Correlation is significant at the 0.05 level (2-tailed).
** Correlation is significant at the 0.01 level (2-tailed).

Appendix 7.3: Bi-variate correlations between frequency of stating and the different attributes of the spatial elements

Katong

		stating	*encountering*	*importance*	*liking*	*visibility*	*connectivity*	*prominence*
stating	Pearson Correlation	1	.194	-.224	.351	.665(**)	.435	.258
	Sig. (2-tailed)	.	.426	.358	.141	.002	.063	.285
	N	19	19	19	19	19	19	19
encountering	Pearson Correlation	.194	1	-.137	.171	.167	-.025	.016
	Sig. (2-tailed)	.426	.	.575	.484	.493	.919	.948
	N	19	19	19	19	19	19	19
importance	Pearson Correlation	-.224	-.137	1	.117	-.396	-.297	-.008
	Sig. (2-tailed)	.358	.575	.	.635	.093	.217	.975
	N	19	19	19	19	19	19	19
liking	Pearson Correlation	.351	.171	.117	1	.188	.356	.217
	Sig. (2-tailed)	.141	.484	.635	.	.441	.134	.372
	N	19	19	19	19	19	19	19
visibility	Pearson Correlation	.665(**)	.167	-.396	.188	1	.750(**)	.046
	Sig. (2-tailed)	.002	.493	.093	.441	.	.000	.851
	N	19	19	19	19	19	19	19
connectivity	Pearson Correlation	.435	-.025	-.297	.356	.750(**)	1	.121
	Sig. (2-tailed)	.063	.919	.217	.134	.000	.	.622
	N	19	19	19	19	19	19	19
prominence	Pearson Correlation	.258	.016	-.008	.217	.046	.121	1
	Sig. (2-tailed)	.285	.948	.975	.372	.851	.622	.
	N	19	19	19	19	19	19	19

** Correlation is significant at the 0.01 level (2-tailed).

Appendix 7.3: Bi-variate correlations between frequency of stating and the different attributes of the spatial elements

Panadura

		stating	*encountering*	*importance*	*liking*	*visibility*	*connectivity*	*prominence*
stating	Pearson Correlation	1	.098	.573(**)	.097	.211	.073	-.014
	Sig. (2-tailed)	.	.674	.007	.675	.359	.752	.952
	N	21	21	21	21	21	21	21
encountering	Pearson Correlation	.098	1	-.124	-.387	.753(**)	.825(**)	-.213
	Sig. (2-tailed)	.674	.	.592	.083	.000	.000	.354
	N	21	21	21	21	21	21	21
importance	Pearson Correlation	.573(**)	-.124	1	-.106	-.185	-.261	.136
	Sig. (2-tailed)	.007	.592	.	.648	.423	.253	.557
	N	21	21	21	21	21	21	21
liking	Pearson Correlation	.097	-.387	-.106	1	-.304	-.401	.245
	Sig. (2-tailed)	.675	.083	.648	.	.180	.072	.285
	N	21	21	21	21	21	21	21
visibility	Pearson Correlation	.211	.753(**)	-.185	-.304	1	.815(**)	-.036
	Sig. (2-tailed)	.359	.000	.423	.180	.	.000	.875
	N	21	21	21	21	21	21	21
connectivity	Pearson Correlation	.073	.825(**)	-.261	-.401	.815(**)	1	-.054
	Sig. (2-tailed)	.752	.000	.253	.072	.000	.	.816
	N	21	21	21	21	21	21	21
prominence	Pearson Correlation	-.014	-.213	.136	.245	-.036	-.054	1
	Sig. (2-tailed)	.952	.354	.557	.285	.875	.816	.
	N	21	21	21	21	21	21	21

** Correlation is significant at the 0.01 level (2-tailed).

Appendix 7.4 : Results of the multiple regressions between the frequency of stating and the attributes of spatial elements

Clementi

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.754(a)	.568	.364	.26785	.568	2.634	6	12	.072

a Predictors: (Constant), prominence, importance, liking, connectivity, encountering, visibility

ANOVA(b)

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	1.134	6	.189	2.634	.072(a)
	Residual	.861	12	.072		
	Total	1.995	18			

a Predictors: (Constant), prominence, importance, liking, connectivity, encountering, visibility
b Dependent Variable: stating

Coefficients(a)

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.	95% Confidence Interval for B	
		B	Std. Error	Beta			Lower Bound	Upper Bound
1	(Constant)	-1.285	.600		-2.140	.054	-2.593	.023
	encountering	.505	.885	.196	.571	.579	-1.423	2.434
	importance	.540	.757	.206	.714	.479	-1.109	2.190
	liking	.837	.598	.283	1.399	.196	-.467	2.141
	visibility	3.389	3.704	.391	.915	.093	-4.681	11.459
	connectivity	.485	.653	.202	.743	.539	-.937	1.907
	prominence	-.061	.403	-.061	-.151	.817	-.940	.818

a Dependent Variable: stating

Appendix 7.4 : Results of the multiple regressions between the frequency of stating and the attributes of spatial elements

Dehiwala

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.732(a)	.536	.35	.09846	.536	2.308	6	12	.103

a Predictors: (Constant), prominence, liking, visibility, importance, encountering, connectivity

ANOVA(b)

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.134	6	.022	2.308	.103(a)
	Residual	.116	12	.010		
	Total	.251	18			

a Predictors: (Constant), prominence, liking, visibility, importance, encountering, connectivity
b Dependent Variable: stating

Coefficients(a)

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.	95% Confidence Interval for B	
		B	Std. Error	Beta			Lower Bound	Upper Bound
1	(Constant)	.060	.260		.231	.821	-.506	.626
	encountering	-.344	.291	-.436	-1.185	.258	-.978	.289
	importance	.431	.206	.506	2.091	.066	-.018	.880
	liking	.246	.235	.263	1.048	.282	-.265	.757
	visibility	.776	.406	.638	1.911	.114	-.109	1.662
	connectivity	-.437	.607	-.251	-.719	.586	-1.760	.886
	prominence	.037	.127	.068	.288	.783	-.241	.314

a Dependent Variable: stating

Appendix 7.4 : Results of the multiple regressions between the frequency of stating and the attributes of spatial elements

Katong

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.752(a)	.565	.352	.11228	.565	2.595	6	12	.075

a Predictors: (Constant), prominence, importance, encountering, liking, visibility, connectivity

ANOVA(b)

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.196	6	.033	2.595	.075(a)
	Residual	.151	12	.013		
	Total	.348	18			

a Predictors: (Constant), prominence, importance, encountering, liking, visibility, connectivity
b Dependent Variable: stating

Coefficients(a)

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.	95% Confidence Interval for B	
		B	Std. Error	Beta			Lower Bound	Upper Bound
1	(Constant)	-.094	.276		-.342	.738	-.695	.507
	encountering	.005	.276	.013	.016	.951	-.597	.606
	importance	-.019	.232	-.003	-.080	.989	-.524	.487
	liking	.328	.258	.257	1.157	.268	-.290	.947
	visibility	1.893	.707	.842	2.677	.019	.352	3.433
	connectivity	-.380	.389	-.317	-.977	.341	-1.227	.467
	prominence	.130	.127	.202	1.025	.322	-.146	.405

a Dependent Variable: stating

Appendix 7.4 : Results of the multiple regressions between the frequency of stating and the attributes of spatial elements

Panadura

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.733(a)	.537	.35	.10556	.537	2.706	6	14	.059

a Predictors: (Constant), prominence, visibility, importance, liking, encountering, connectivity

ANOVA(b)

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	.181	6	.030	2.706	.059(a)
	Residual	.156	14	.011		
	Total	.337	20			

a Predictors: (Constant), prominence, visibility, importance, liking, encountering, connectivity
b Dependent Variable: stating

Coefficients(a)

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.	95% Confidence Interval for B	
		B	Std. Error	Beta			Lower Bound	Upper Bound
1	(Constant)	-.454	.328		-1.383	.188	-1.158	.250
	encountering	-.273	.389	-.251	-.703	.211	-1.108	.561
	importance	.685	.185	.749	3.701	.002	.288	1.082
	liking	.321	.193	.346	1.667	.124	-.092	.735
	visibility	.656	.520	.436	1.260	.201	-.460	1.772
	connectivity	.443	.652	.244	.680	.565	-.954	1.841
	prominence	-.172	.164	-.206	-1.051	.321	-.523	.179

a Dependent Variable: stating