

# FLG243 – Cartografia Temática

## **ArcGis** **Método Coroplético**

### **Professores**

Ligia Vizeu Barrozo

Reinaldo Paul Pérez Machado

### **Elaboração**

William Cabral de Miranda

Banco de dados obtido através do Censo demográfico do IBGE 2010

Microsoft Excel ribbon: Início, Inserir, Layout da Página, Fórmulas, Dados, Referências, Desenvolvimento, Programador. Fontes: Calibri 11, Fonte, Número. Ferramentas: Formatação Condicional, Formatar como Tabela, Estilos de Célula, Inserir, Excluir, Formatar Células, AutoSoma, Preencher, Limpar, Classificar e Filtrar, Localizar e Selecionar.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
	AP10	V001	V002	V003	V004	V005	V006	V007	V008	V009	V010	V011	V012	V013	V014	V015	V016	V017	V018	V019
2	3550308005001	9154	9098	462	64	8212	3355	701	4422	195	148	215	9027	8	0	1	9034	9021	7	
3	3550308005002	11121	11036	356	45	10304	4714	883	4999	160	231	49	11028	1	0	7	11036	11025	5	
4	3550308005003	15504	15308	316	31	14782	5629	1475	7378	323	305	198	15302	4	0	2	15306	15284	9	
5	3550308005004	11242	10620	2749	153	6778	4049	822	4834	238	239	438	10262	25	0	333	10598	10068	16	
6	3550308005005	10572	10110	1475	442	7018	2771	1683	5135	120	217	184	10108	0	0	2	10097	10077	8	
7	3550308005006	13363	12645	4758	324	7044	6680	1115	4074	272	369	135	12616	7	0	22	12621	12511	18	
8	3550308005007	15444	14988	3366	254	10961	8467	1153	4763	211	343	51	14981	2	0	5	14974	14909	16	
9	3550308005008	12857	12326	950	212	10752	5572	657	5601	154	267	75	12320	0	0	6	12317	12296	7	
10	3550308005009	8885	8771	278	22	8341	3493	876	4037	104	235	26	8519	252	0	0	8770	8758	11	
11	3550308005010	13310	12531	1002	38	11170	6541	831	4544	203	321	91	12529	2	0	0	12524	12510	7	
12	3550308005011	9286	8665	514	28	8030	4068	661	3577	159	165	35	8664	1	0	0	8661	8632	10	
13	3550308005012	13137	13059	283	53	12689	7566	522	4287	305	336	43	13054	3	0	2	13046	13028	8	
14	3550308005013	13398	13280	966	30	12247	7119	538	4934	350	315	24	13277	3	0	0	13280	13270	4	
15	3550308005014	17683	17041	642	66	15320	7061	1417	7889	306	322	46	17029	11	0	1	17027	17010	8	
16	3550308005015	5634	5543	2695	215	2322	2010	451	2699	72	239	72	5537	1	1	4	5543	5064	357	
17	3550308005016	15994	14323	5806	909	7309	7056	1622	4778	105	355	407	14306	6	1	10	14320	14033	62	
18	3550308005017	16937	15399	6373	249	8735	9367	2034	3451	108	416	23	15395	3	0	1	15398	15294	59	
19	3550308005018	11274	11057	3687	226	7041	7423	826	2329	148	228	103	11021	4	0	32	11057	10921	71	
20	3550308005019	10453	10137	3897	218	5836	6114	808	2780	87	276	68	10114	15	0	4	10132	10102	4	
21	3550308005020	10698	10442	2003	157	8183	6161	642	3166	172	274	27	10437	2	0	3	10442	10415	6	
22	3550308005021	15424	14832	2272	348	12179	9560	782	3798	240	413	39	14762	68	0	2	14831	14816	9	
23	3550308005022	9924	9781	265	42	9408	6464	468	2299	267	259	24	9764	2	0	15	9778	9770	4	
24	3550308005023	12206	12140	490	76	11563	7444	512	3499	309	324	52	12123	16	0	1	12140	12090	27	
25	3550308005024	13264	13214	1853	121	11233	9589	350	2590	399	257	29	13208	3	0	3	13214	13181	21	

Códigos de Identificação das Áreas de Ponderação

Variáveis

AP10	V001	V002	V003	V004	V005	V006	V007	V008	V009	V010	V011	V012	V013	V014	V015	V016	V017	V018	V019
3550308005001	9154	9098	462	64	8212	3355	701	4422	195	148	215	9027	8	0	1	9034	9021	7	
3550308005002	11121	11036	356	45	10304	4714	883	4999	160	231	49	11028	1	0	7	11036	11025	5	
3550308005003	15504	15308	316	31	14782	5629	1475	7378	323	305	198	15302	4	0	2	15306	15284	9	
3550308005004	11242	10620	2749	153	6778	4049	822	4834	238	239	438	10262	25	0	333	10598	10068	16	
3550308005005	10572	10110	1475	442	7018	2771	1683	5135	120	217	184	10108	0	0	2	10097	10077	8	
3550308005006	13363	12645	4758	324	7044	6680	1115	4074	272	369	135	12616	7	0	22	12621	12511	18	
3550308005007	15444	14988	3366	254	10961	8467	1153	4763	211	343	51	14981	2	0	5	14974	14909	16	
3550308005008	12857	12326	950	212	10752	5572	657	5601	154	267	75	12320	0	0	6	12317	12296	7	
3550308005009	8885	8771	278	22	8341	3493	876	4037	104	235	26	8519	252	0	0	8770	8758	11	
3550308005010	13310	12531	1002	38	11170	6541	831	4544	203	321	91	12529	2	0	0	12524	12510	7	
3550308005011	9286	8665	514	28	8030	4068	661	3577	159	165	35	8664	1	0	0	8661	8632	10	
3550308005012	13137	13059	283	53	12689	7566	522	4287	305	336	43	13054	3	0	2	13046	13028	8	
3550308005013	13398	13280	966	30	12247	7119	538	4934	350	315	24	13277	3	0	0	13280	13270	4	
3550308005014	17683	17041	642	66	15320	7061	1417	7889	306	322	46	17029	11	0	1	17027	17010	8	
3550308005015	5634	5543	2695	215	2322	2010	451	2699	72	239	72	5537	1	1	4	5543	5064	357	
3550308005016	15994	14323	5806	909	7309	7056	1622	4778	105	355	407	14306	6	1	10	14320	14033	62	
3550308005017	16937	15399	6373	249	8735	9367	2034	3451	108	416	23	15395	3	0	1	15398	15294	59	
3550308005018	11274	11057	3687	226	7041	7423	826	2329	148	228	103	11021	4	0	32	11057	10921	71	
3550308005019	10453	10137	3897	218	5836	6114	808	2780	87	276	68	10114	15	0	4	10132	10102	4	
3550308005020	10698	10442	2003	157	8183	6161	642	3166	172	274	27	10437	2	0	3	10442	10415	6	
3550308005021	15424	14832	2272	348	12179	9560	782	3798	240	413	39	14762	68	0	2	14831	14816	9	
3550308005022	9924	9781	265	42	9408	6464	468	2299	267	259	24	9764	2	0	15	9778	9770	4	
3550308005023	12206	12140	490	76	11563	7444	512	3499	309	324	52	12123	16	0	1	12140	12090	27	
3550308005024	13264	13214	1853	121	11233	9589	350	2590	399	257	29	13208	3	0	3	13214	13181	21	



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Usar o arquivo "Base de informações do Censo Demográfico 2010" para identificar as variáveis

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	AP10	V001	V002	V003	V004	V005	V006	V007	V008	V009	V010	V011	V012	V013	V014	V015	V016	V017	V018	V019
2	3550308005001	9154	9098	462	64	8212	3355	701	4422	195	148	215	9027	8	0	1	9034	9021	7	
3	3550308005002	11121	11036	356	45	10304	4714	883	4999	160	231	49	11028	1	0	7	11036	11025	5	
4	3550308005003	15504	15308	316	31	14782	5629	1475	7378	323	305	198	15302	4	0	2	15306	15284	9	
5	3550308005004	11242	10620	2749	153	6778	4049	822	4834	238	239	438	10262	25	0	333	10598	10068	16	
6	3550308005005	10572	10110	1475	442	7018	2771	1683	5135	120	217	184	10108	0	0	2	10097	10077	8	
7	3550308005006	13363	12645	4758	324	7044	6680	1115	4074	272	369	135	12616	7	0	22	12621	12511	18	
8	3550308005007	15444	14988	3366	254	10961	8467	1153	4763	211	343	51	14981	2	0	5	14974	14909	16	
9	3550308005008	12857	12326	950	212	10752	5572	657	5601	154	267	75	12320	0	0	6	12317	12296	7	
10	3550308005009	8885	8771	278	22	8341	3493	876	4037	104	235	26	8519	252	0	0	8770	8758	11	
11	3550308005010	13310	12531	1002	38	11170	6541	831	4544	203	321	91	12529	2	0	0	12524	12510	7	
12	3550308005011	9286	8665	514	28	8030	4068	661	3577	159	165	35	8664	1	0	0	8661	8632	10	
13	3550308005012	13137	13059	283	53	12689	7566	522	4287	305	336	43	13054	3	0	2	13046	13028	8	
14	3550308005013	13398	13280	966	30	12247	7119	538	4934	350	315	24	13277	3	0	0	13280	13270	4	
15	3550308005014	17683	17041	642	66	15320	7061	1417	7889	306	322	46	17029	11	0	1	17027	17010	8	
16	3550308005015	5634	5543	2695	215	2322	2010	451	2699	72	239	72	5537	1	1	4	5543	5064	357	
17	3550308005016	15994	14323	5806	909	7309	7056	1622	4778	105	355	407	14306	6	1	10	14320	14033	62	
18	3550308005017	16937	15399	6373	249	8735	9367	2034	3451	108	416	23	15395	3	0	1	15398	15294	59	
19	3550308005018	11274	11057	3687	226	7041	7423	826	2329	148	228	103	11021	4	0	32	11057	10921	71	
20	3550308005019	10453	10137	3897	218	5836	6114	808	2780	87	276	68	10114	15	0	4	10132	10102	4	
21	3550308005020	10698	10442	2003	157	8183	6161	642	3166	172	274	27	10437	2	0	3	10442	10415	6	
22	3550308005021	15424	14832	2272	348	12179	9560	782	3798	240	413	39	14762	68	0	2	14831	14816	9	
23	3550308005022	9924	9781	265	42	9408	6464	468	2299	267	259	24	9764	2	0	15	9778	9770	4	
24	3550308005023	12206	12140	490	76	11563	7444	512	3499	309	324	52	12123	16	0	1	12140	12090	27	
25	3550308005024	13264	13214	1853	121	11233	9589	350	2590	399	257	29	13208	3	0	3	13214	13181	21	



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AP10	V001	V002	V003	V004	V005	V006	V007	V008	V009	V010	V011	V012	V013	V014	V015	V016	V017	V018	V019
3550308005001	9164	9998	462	64	8333	3366	703	4433	306	348	338	9037	0	0	1	9934	9033	7	
3550308005002	11121	11096	356	45	10304	4714	883	4999	160	231	49	11028	1	0	7	11036	11025	5	
3550308005003	15504	15308	316	31	14782	5629	1475	7378	323	305	198	15302	4	0	2	15306	15294	9	
3550308005004	11242	10620	2749	153	6778	4049	822	4834	238	239	438	10262	25	0	333	10598	10068	16	
3550308005005	10572	10110	1475	442	7018	2771	1683	5135	120	217	184	10108	0	0	2	10097	10077	8	
3550308005006	13363	12645	4758	324	7044	6880	1115	4074	272	369	135	12616	7	0	22	12621	12511	18	
3550308005007	15444	14988	3366	254	10961	8467	1153	4763	211	343	51	14981	2	0	5	14974	14909	16	
3550308005008	12857	12326	950	212	10752	5572	657	5601	154	267	75	12320	0	0	6	12317	12296	7	
3550308005009	8885	8771	278	22	8341	3493	876	4037	104	235	26	8519	252	0	0	8770	8758	11	
3550308005010	13310	12531	1002	38	11170	6541	831	4544	203	321	91	12529	2	0	0	12524	12510	7	
3550308005011	9286	8665	514	28	8030	4068	661	3577	159	165	35	8664	1	0	0	8661	8632	10	
3550308005012	13137	13059	283	53	12889	7566	522	4287	305	336	43	13054	3	0	2	13046	13028	8	
3550308005013	13398	13280	966	30	12247	7119	538	4934	350	315	24	13277	3	0	0	13280	13270	4	
3550308005014	17683	17041	642	66	15320	7061	1417	7889	306	322	46	17029	11	0	1	17027	17010	8	
3550308005016	5634	5543	2695	215	2322	2010	451	2699	72	239	72	5537	1	1	4	5543	5064	357	
3550308005016	15994	14323	5806	909	7309	7056	1622	4778	105	355	407	14306	6	1	10	14320	14033	62	
3550308005017	16937	15399	6373	249	8735	9367	2034	3451	108	416	23	15395	3	0	1	15398	15294	59	
3550308005018	11274	11057	3687	226	7041	7423	826	2329	148	228	103	11021	4	0	32	11057	10921	71	
3550308005019	10453	10137	3897	218	5836	6114	808	2780	87	276	68	10114	15	0	4	10132	10102	4	
3550308005020	10698	10442	2003	157	8183	6161	642	3166	172	274	27	10437	2	0	3	10442	10415	6	
3550308005021	15424	14832	2272	348	12179	9560	782	3798	240	413	39	14762	68	0	2	14831	14816	9	
3550308005022	9924	9781	265	42	9408	6444	468	2299	267	259	24	9784	2	0	15	9778	9770	4	
3550308005023	12206	12140	490	76	11563	7444	512	3499	309	324	52	12123	16	0	1	12140	12090	27	
3550308005024	13264	13214	1853	121	11233	9589	350	2590	399	257	29	13208	3	0	3	13214	13181	21	

BASE DE INFORMAÇÕES POR SETOR CENSITÁRIO Censo 2010 - Universo.pdf - Adobe Reader

Nome da variável	Descrição da variável
Cód_setor	Código do setor censitário
Situacao	Código de situação do setor censitário (ver planilha Basico_UF.xls)
V001	Domicílios particulares e domicílios coletivos
V002	Domicílios particulares permanentes
V003	Domicílios particulares permanentes do tipo casa
V004	Domicílios particulares permanentes do tipo casa de vila ou em condomínio
V005	Domicílios particulares permanentes do tipo apartamento
V006	Domicílios particulares permanentes próprios e quitados
V007	Domicílios particulares permanentes próprios em aquisição
V008	Domicílios particulares permanentes alugados
V009	Domicílios particulares permanentes cedidos por empregador
V010	Domicílios particulares permanentes cedidos de outra forma
V011	Domicílios particulares permanentes em outra condição de ocupação (não são próprios, alugados, nem cedidos)
V012	Domicílios particulares permanentes com abastecimento de água da rede geral
V013	Domicílios particulares permanentes com abastecimento de água de poço ou nascente na propriedade
V014	Domicílios particulares permanentes com abastecimento de água da chuva armazenada em cisterna
V014	<del>Domicílios particulares permanentes com outra forma de abastecimento de</del>

Selecionar o Código de Identificação e algumas variáveis

- V002 - Domicílios particulares permanentes
- V004 Domicílios particulares permanentes do tipo casa de vila ou em condomínio
- V005 Domicílios particulares permanentes do tipo apartamento
- V007 Domicílios particulares permanentes próprios em aquisição
- V008 Domicílios particulares permanentes alugados

A variável V002 será utilizada como base para calcular o percentual das outras variáveis

	A	B	C	D	E	F	G	H	I	J
	H1		V007							
		V001	V002	V003	V004	V005	V006	V007	V008	V009
1	AP10									
2	3550308005001	9154	9098	462	64	8212	3355	701	4422	19
3	3550308005002	11121	11036	356	45	10304	4714	883	4999	16
4	3550308005003	15504	15308	316	31	14782	5629	1475	7378	323
5	3550308005004	11242	10620	2749	153	6778	4049	822	4834	238
6	3550308005005	10572	10110	1475	442	7018	2771	1683	5135	120
7	3550308005006	13363	12645	4758	324	7044	6680	1115	4074	272
8	3550308005007	15444	14988	3366	254	10961	8467	1153	4763	211
9	3550308005008	12857	12326	950	212	10752	5572	657	5601	154
10	3550308005009	8885	8771	278	22	8341	3493	876	4037	104
11	3550308005010	13310	12531	1002	38	11170	6541	831	4544	203
12	3550308005011	9286	8665	514	28	8030	4068	661	3577	159
13	3550308005012	13137	13059	283	53	12689	7566	522	4287	305
14	3550308005013	13398	13280	966	30	12247	7119	538	4934	350
15	3550308005014	17683	17041	642	66	15320	7061	1417	7889	306
16	3550308005015	5634	5543	2695	215	2322	2010	451	2699	72
17	3550308005016	15994	14323	5806	909	7309	7056	1622	4778	105
18	3550308005017	16937	15399	6373	249	8735	9367	2034	3451	108
19	3550308005018	11274	11057	3687	226	7041	7423	826	2329	148
20	3550308005019	10453	10137	3897	218	5836	6114	808	2780	87
21	3550308005020	10698	10442	2003	157	8183	6161	642	3166	172
22	3550308005021	15424	14832	2272	348	12179	9560	782	3798	240
23	3550308005022	9924	9781	265	42	9408	6464	468	2299	267
24	3550308005023	12206	12140	490	76	11563	7444	512	3499	309
25	3550308005024	13264	13214	1853	121	11233	9589	350	2590	399

AutoSoma, Preencher, Limpar, Classificar e Filtrar, Localizar e Selecionar

	P	Q	R	S	T
	V015	V016	V017	V018	V019
	1	9034	9021		7
7	11036	11025			5
2	15306	15284			9
333	10598	10068			16
2	10097	10077			8
22	12621	12511			18
5	14974	14909			16
6	12317	12296			7
0	8770	8758			11
0	12524	12510			7
0	8661	8632			10
2	13046	13028			8
0	13280	13270			4
1	17027	17010			8
4	5543	5064			357
10	14320	14033			62
1	15398	15294			59
32	11057	10921			71
4	10132	10102			4
3	10442	10415			6
2	14831	14816			9
15	9778	9770			4
1	12140	12090			27
3	13214	13181			21



Microsoft Excel ribbon with tabs: Início, Inserir, Layout da Página, Fórmulas, Dados, Revisão, Exibição. The ribbon includes various toolbars for font, alignment, numbers, and styles.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	AP10	V001	V002	V003	V004	V005	V006	V007	V008	V009	V010	V011	V012	V013	V014	V015	V016	V017	V018	V019
2	3550308005001	9154	9098	462	64	8212	3355	701	4422	195	148	215	9027	8	0	1	9034	9021	7	
3	3550308005002	11121	11036	356	45	10304	4714	883	4999	160	231	49	11028	1	0	7	11036	11025	5	
4	3550308005003	15504	15308	316	31	14782	5629	1475	7378	323	305	198	15302	4	0	2	15306	15284	9	
5	3550308005004	11242	10620	2749	153	6778	4049	822	4834	238	239	438	10262	25	0	333	10598	10068	16	
6	3550308005005	10572	10110	1475	442	7018	2771	1683	5135	120	217	184	10108	0	0	2	10097	10077	8	
7	3550308005006	13363	12645	4758	324	7044	6680	1115	4074	272	369	135	12616	7	0	22	12621	12511	18	
8	3550308005007	15444	14988	3366	254	10961	8467	1153	4763	211	343	51	14981	2	0	5	14974	14909	16	
9	3550308005008	12			212	10752	5572	657	5601	154	267	75	12320	0	0	6	12317	12296	7	
10	3550308005009	8			22	8341	3493	876	4037	104	235	26	8519	252	0	0	8770	8758	11	
11	3550308005010	13			38	11170	6541	831	4544	203	321	91	12529	2	0	0	12524	12510	7	
12	3550308005011	9286	8665	514	28	8030	4068	661	3577	159	165	35	8664	1	0	0	8661	8632	10	
13	3550308005012	13137	13059	283	53	12689	7566	522	4287	305	336	43	13054	3	0	2	13046	13028	8	
14	3550308005013	13398	13280	966	30	12247	7119	538	4934	350	315	24	13277	3	0	0	13280	13270	4	
15	3550308005014	17683	17041	642	66	15320	7061	1417	7889	306	322	46	17029	11	0	1	17027	17010	8	
16	3550308005015	5634	5543	2695	215	2322	2010	451	2699	72	239	72	5537	1	1	4	5543	5064	357	
17	3550308005016	15994	14323	5806	909	7309	7056	1622	4778	105	355	407	14306	6	1	10	14320	14033	62	
18	3550308005017	16937	15399	6373	249	8735	9367	2034	3451	108	416	23	15395	3	0	1	15398	15294	59	
19	3550308005018	11274	11057	3687	226	7041	7423	826	2329	148	228	103	11021	4	0	32	11057	10921	71	
20	3550308005019	10453	10137	3897	218	5836	6114	808	2780	87	276	68	10114	15	0	4	10132	10102	4	
21	3550308005020	1068	10442	2003	157	8183	6161	642	3166	172	274	27	10437	2	0	3	10442	10415	6	
22	3550308005021	15474	14832	2272	348	12179	9560	782	3798	240	413	39	14762	68	0	2	14831	14816	9	
23	3550308005022	9924	9781	265	42	9408	6464	468	2299	267	259	24	9764	2	0	15	9778	9770	4	
24	3550308005023	12206	12140	490	76	11563	7444	512	3499	309	324	52	12123	16	0	1	12140	12090	27	
25	3550308005024	13264	13214	1853	121	11233	9589	350	2590	399	257	29	13208	3	0	3	13214	13181	21	

Copiar e colar em outra planilha

Microsoft Excel ribbon showing tabs: Início, Inserir, Layout da Página, Fórmulas, Dados, Revisão, Exibição. The 'Fonte' (Font) group is active, showing 'Calibri' font and size '11'. Other groups include 'Alinhamento', 'Número', 'Formatação Condicional', 'Formatar como Tabela', 'Estilos de Célula', 'Células', and 'Edição'.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	AP10	V002	V004	V005	V007	V008													
2	3550308005001	9098	64	8212	701	4422													
3	3550308005002	11036	45	10304	883	4999													
4	3550308005003	15308	31	14782	1475	7378													
5	3550308005004	10620	153	6778	822	4834													
6	3550308005005	10110	442	7018	1683	5135													
7	3550308005006	12645	324	7044	1115	4074													
8	3550308005007	14988	254	10961	1153	4763													
9	3550308005008	12326	212	10752	657	5601													
10	3550308005009	8771	22	8341	876	4037													
11	3550308005010	12531	38	11170	831	4544													
12	3550308005011	8665	28	8030	661	3577													
13	3550308005012	13059	53	12689	522	4287													
14	3550308005013	13280	30	12247	538	4934													
15	3550308005014	17041	66	15220	1417	7889													
16	3550308005015	5543				2699													
17	3550308005016	14323				4778													
18	3550308005017	15399				3451													
19	3550308005018	11057				2329													
20	3550308005019	10137				2780													
21	3550308005020	10442				3166													
22	3550308005021	14832				3798													
23	3550308005022	9781				2299													
24	3550308005023	12140				3499													
25	3550308005024	13214				2590													

Context menu for cell H12:

- Inserir...
- Excluir
- Renomear**
- Mover ou copiar...
- Exibir Código
- Proteger Planilha...
- Cor da Guia
- Qcultar
- Reexibir...
- Selecionar Todas as Planilhas





Microsoft Excel ribbon showing tabs: Início, Inserir, Layout da Página, Fórmulas, Dados, Revisão, Exibição. The 'Fórmulas' tab is active, showing options like 'Quebrar Texto Automaticamente' and 'Mesclar e Centralizar'. The formula bar shows the formula  $=C2/B2*100$ .

SOMA  $\times$   $\checkmark$   $f_x$   $=C2/B2*100$  ← Fórmula para calcular o percentual dos tipos de domicílios

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	AP10	V002	V004	V005	V007	V008	%vila													
2	3550308005001	9098	64	8212	701	4422	$=C2/B2*100$													
3	3550308005002	11036	45	10304	883	4999														
4	3550308005003	15308	31	14782	1475	7378														
5	3550308005004	10620	153	6778	822	4834														
6	3550308005005	10110	442	7018	1683	5135														
7	3550308005006	12645	324	7044	1115	4074														
8	3550308005007	14988	254	10961	1153	4763														
9	3550308005008	12326	212	10752	657	5601														
10	3550308005009	8771	22	8341	876	4037														
11	3550308005010	12531	38	11170	831	4544														
12	3550308005011	8665	28	8030	661	3577														
13	3550308005012	13059	53	12689	522	4287														
14	3550308005013	13280	30	12247	538	4934														
15	3550308005014	17041	66	15320	1417	7889														
16	3550308005015	5543	215	2322	451	2699														
17	3550308005016	14323	909	7309	1622	4778														
18	3550308005017	15399	249	8735	2034	3451														
19	3550308005018	11057	226	7041	826	2329														
20	3550308005019	10137	218	5836	808	2780														
21	3550308005020	10442	157	8183	642	3166														
22	3550308005021	14832	348	12179	782	3798														
23	3550308005022	9781	42	9408	468	2299														
24	3550308005023	12140	76	11563	512	3499														
25	3550308005024	13214	121	11233	350	2590														

A variável V002 será utilizada como base para calcular todas as variáveis



Início Inserir Layout da Página Fórmulas Dados Revisão Exibição

Calibri 11 A A

Quebrar Texto Automaticamente Número

Mesclar e Centralizar % 000 0,00 0,00

Formatação Condicional Formatar como Tabela Estilos de Célula

Inserir Excluir Formatar

AutoSoma Preencher Limpar Classificar e Filtrar Localizar e Selecionar

Edição

G2 fx =C2/B2\*100

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	AP10	V002	V004	V005	V007	V008	%vila												
2	3550308005001	9098	64	8212	701	4422	0,7												
3	3550308005002	11036	45	10304	883	4999													
4	3550308005003	15308	31	14782	1475	7378													
5	3550308005004	10620	153	6778	822	4834													
6	3550308005005	10110	442	7018	1683	5135													
7	3550308005006	12645	324	7044	1115	4074													
8	3550308005007	14988	254	10961	1153	4763													
9	3550308005008	12326	212	10752	657	5601													
10	3550308005009	8771	22	8341	876	4037													
11	3550308005010	12531	38	11170	831	4544													
12	3550308005011	8665	28	8030	661	3577													
13	3550308005012	13059	53	12689	522	4287													
14	3550308005013	13280	30	12247	538	4934													
15	3550308005014	17041	66	15320	1417	7889													
16	3550308005015	5543	215	2322	451	2699													
17	3550308005016	14323	909	7309	1622	4778													
18	3550308005017	15399	249	8735	2034	3451													
19	3550308005018	11057	226	7041	826	2329													
20	3550308005019	10137	218	5836	808	2780													
21	3550308005020	10442	157	8183	642	3166													
22	3550308005021	14832	348	12179	782	3798													
23	3550308005022	9781	42	9408	468	2299													
24	3550308005023	12140	76	11563	512	3499													
25	3550308005024	13214	121	11233	350	2590													

Clique duplo no canto da célula para repetir a fórmula para todas as linhas

Microsoft Excel ribbon showing tabs: Início, Inserir, Layout da Página, Fórmulas, Dados, Revisão, Exibição. The 'Fórmulas' tab is active, showing options for alignment, number formatting, and conditional formatting.

Formula bar:  $=C2/B2*100$

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	AP10	V002	V004	V005	V007	V008	%vila												
2	3550308005001	9098	64	8212	701	4422	0,7												
3	3550308005002	11036	45	10304	883	4999	0,4												
4	3550308005003	15308	31	14782	1475	7378	0,2												
5	3550308005004	10620	153	6778	822	4834	1,4												
6	3550308005005	10110	442	7018	1683	5135	4,4												
7	3550308005006	12645	324	7044	1115	4074	2,6												
8	3550308005007	14988	254	10961	1153	4763	1,7												
9	3550308005008	12326	212	10752	657	5601	1,7												
10	3550308005009	8771	22	8341	876	4037	0,3												
11	3550308005010	12531	38	11170	831	4544	0,3												
12	3550308005011	8665	28	8030	661	3577	0,3												
13	3550308005012	13059	53	12689	522	4287	0,4												
14	3550308005013	13280	30	12247	538	4934	0,2												
15	3550308005014	17041	66	15320	1417	7889	0,4												
16	3550308005015	5543	215	2322	451	2699	3,9												
17	3550308005016	14323	909	7309	1622	4778	6,3												
18	3550308005017	15399	249	8735	2034	3451	1,6												
19	3550308005018	11057	226	7041	826	2329	2,0												
20	3550308005019	10137	218	5836	808	2780	2,2												
21	3550308005020	10442	157	8183	642	3166	1,5												
22	3550308005021	14832	348	12179	782	3798	2,3												
23	3550308005022	9781	42	9408	468	2299	0,4												
24	3550308005023	12140	76	11563	512	3499	0,6												
25	3550308005024	13214	121	11233	350	2590	0,9												

Repetir o processo para as outras variáveis



Início Inserir Layout da Página Fórmulas Dados Revisão Exibição

Calibri 11 Fonte

Quebrar Texto Automaticamente Mesclar e Centralizar Alinhamento

Formato Formatar como Tabela Estilos de Célula Inserir Excluir Formatar Células

AutoSoma Preencher Limpar Classificar e Filtrar Localizar e Selecionar Edição

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	AP10	V002	V004	V005	V007	V008	%vila	%apart	%aquisi	%alugados										
2	3550308005001	9098	64	8212	701	4422	0,7	90,3	7,7	48,6										
3	3550308005002	11036	45	10304	883	4999	0,4	93,4	8,0	45,3										
4	3550308005003	15308	31	14782	1475	7378	0,2	96,6	9,6	48,2										
5	3550308005004	10620	153	6778	822	4834	1,4	63,8	7,7	45,5										
6	3550308005005	10110	442	7018	1683	5135	4,4	69,4	16,6	50,8										
7	3550308005006	12645	324	7044	1115	4074	2,6	55,7	8,8	32,2										
8	3550308005007	14988	254	10961	1153	4763	1,7	73,1	7,7	31,8										
9	3550308005008	12326	212	10752	657	5601	1,7	87,2	5,3	45,4										
10	3550308005009	8771	22	8341	876	4037	0,3	95,1	10,0	46,0										
11	3550308005010	12531	38	11170	831	4544	0,3	89,1	6,6	36,3										
12	3550308005011	8665	28	8030	661	3577	0,3	92,7	7,6	41,3										
13	3550308005012	13059	53	12689	522	4287	0,4	97,2	4,0	32,8										
14	3550308005013	13280	30	12247	538	4934	0,2	92,2	4,1	37,2										
15	3550308005014	17041	66	15320	1417	7889	0,4	89,9	8,3	46,3										
16	3550308005015	5543	215	2322	451	2699	3,9	41,9	8,1	48,7										
17	3550308005016	14323	909	7309	1622	4778	6,3	51,0	11,3	33,4										
18	3550308005017	15399	249	8735	2034	3451	1,6	56,7	13,2	22,4										
19	3550308005018	11057	226	7041	826	2329	2,0	63,7	7,5	21,1										
20	3550308005019	10137	218	5836	808	2780	2,2	57,6	8,0	27,4										
21	3550308005020	10442	157	8183	642	3166	1,5	78,4	6,1	30,3										
22	3550308005021	14832	348	12179	782	3798	2,3	82,1	5,3	25,6										
23	3550308005022	9781	42	9408	468	2299	0,4	96,2	4,8	23,5										
24	3550308005023	12140	76	11563	512	3499	0,6	95,2	4,2	28,8										
25	3550308005024	13214	121	11233	350	2590	0,9	85,0	2,6	19,6										

Layers

- ArcToolbox
  - 3D Analyst Tools
  - Analysis Tools
  - Cartography Tools
  - Conversion Tools
  - Data Interoperability Tools
  - Data Management Tools
  - Geocoding Tools
  - Geostatistical Analyst Tools
  - Linear Referencing Tools
  - Mobile Tools
  - Multidimension Tools
  - Network Analyst Tools
  - Samples
  - Schematics Tools
  - Server Tools
  - Spatial Analyst Tools
  - Spatial Statistics Tools
  - Tracking Analyst Tools



Add Data

Look in: Método coroplético

- AP\_MSP.shp
- met\_coropl\_ligia.jpg
- SAO\_PAULO\_area\_de\_ponderacao.shp
- SPDOMICILIO01AP.xlsx
- SPDOMICILIO01AP\_ligia.xlsx

Name: SAO\_PAULO\_area\_de\_ponderacao.shp

Show of type: Datasets and Layers (\*.lyr)

Add Cancel



Clique com o direito

- Copy
- Remove
- Open Attribute Table
- Joins and Relates**
  - Join...**
  - Remove Join(s)
  - Relate...
  - Remove Relate(s)
- Zoom To Layer
- Zoom To Make Visible
- Visible Scale Range
- Use Symbol Levels
- Selection
- Label Features
- Convert Labels to Annotation...
- Convert Features to Graphics...
- Convert Symbolology to Representation...
- Data
- Save As Layer File...
- Create Layer Package...
- Properties...

Layers

- SAO\_PAULO\_area\_de\_ponder

ArcToolbox


- 3D Analyst Tools
- Analysis Tools
- Cartography Tools
- Conversion Tools
- Data Interoperability Tools
- Data Management Tools
- Geocoding Tools
- Geostatistical Analyst Tools
- Linear Referencing Tools
- Mobile Tools
- Multidimension Tools
- Network Analyst Tools
- Samples
- Schematics Tools
- Server Tools
- Spatial Analyst Tools
- Spatial Statistics Tools
- Tracking Analyst Tools

### Join Data

Join lets you append additional data to this layer's attribute table so you can, for example, symbolize the layer's features using this data.

What do you want to join to this layer?

Join attributes from a table

1. Choose the field in this layer that the join will be based on:  
[Dropdown]
2. Choose the table to join to this layer, or load the table from disk:  
[Dropdown] **1** 
3. Choose the field in the table to base the join on:  
[Dropdown]

Join Options

Keep all records  
All records in the target table are shown in the resulting table. Unmatched records will contain null values for all fields being appended into the target table from the join table.

Keep only matching records  
If a record in the target table doesn't have a match in the join table, that record is removed from the resulting target table.

About Joining Data OK Cancel

### Add

Look in: **Método coroplético** **2**

- AP\_MSP.shp
- SAO\_PAULO\_area\_de\_ponderacao.shp
- SPDOMICILIO01AP.xlsx
- SPDOMICILIO01AP\_Logia.xlsx** **3**

Name: [Text]

Show of type: Tables and feature classes

**Add** **4** Cancel



**Layers**

- SAO\_PAULO\_area\_de\_ponder

**ArcToolbox**


- 3D Analyst Tools
- Analysis Tools
- Cartography Tools
- Conversion Tools
- Data Interoperability Tools
- Data Management Tools
- Geocoding Tools
- Geostatistical Analyst Tools
- Linear Referencing Tools
- Mobile Tools
- Multidimension Tools
- Network Analyst Tools
- Samples
- Schematics Tools
- Server Tools
- Spatial Analyst Tools
- Spatial Statistics Tools
- Tracking Analyst Tools

**Join Data**

Join lets you append additional data to this layer's attribute table so you can, for example, symbolize the layer's features using this data.

What do you want to join to this layer?

Join attributes from a table

1. Choose the field in this layer that the join will be based on:  
[Dropdown]
2. Choose the table to join to this layer, or load the table from disk:  
[Dropdown]  **1**
3. Choose the field in the table to base the join on:  
[Dropdown]

**Join Options**

- Keep all records  
All records in the target table are shown in the resulting table. Unmatched records will contain null values for all fields being appended into the target table from the join table.
- Keep only matching records  
If a record in the target table doesn't have a match in the join table, that record is removed from the resulting target table.

About Joining Data OK Cancel

**Add**

Look in: **Método coroplético** **2**

- AP\_MSP.shp
- SAO\_PAULO\_area\_de\_ponderacao.shp
- SPDOMICILIO01AP.xlsx
- SPDOMICILIO01AP\_Loja.xlsx** **3**

Name: [Text Box]

Show of type: Tables and feature classes

**Add** **4** Cancel

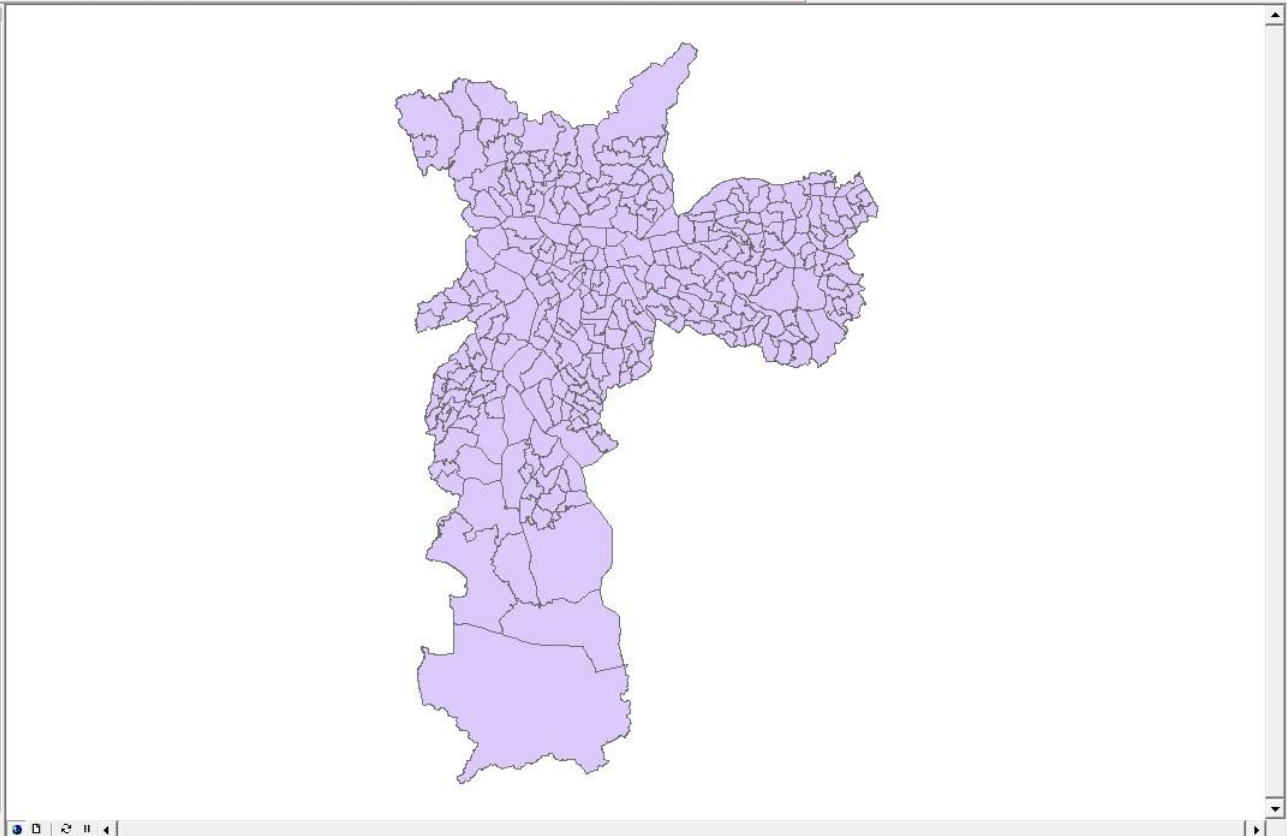
**Layers**

- SAO\_PAULO\_area\_de\_pooda
- coropletico

**ArcToolbox**

- 3D Analyst Tools

Copy  
Remove  
**Open Attribute Table**  
Joins and Relates  
Zoom To Layer  
Zoom To Make Visible  
Visible Scale Range  
Use Symbol Levels  
Selection  
Label Features  
Convert Labels to Annotation...  
Convert Features to Graphics...  
Convert Symbology to Representation...  
Data  
Save As Layer File...  
Create Layer Package...  
Properties...





**Tabela adicionada**

FID	Shape	Id	Qt Setores	CD APONDE	AP40	V002	V004	V005	V007	V008	%apart	%alugados	%vila	%saquis
0	Polygon	0	48	3550308005310	3550308005310	9816	368	4888	1429	1929	48,994899	19,999762	9,491887	14,097555
1	Polygon	0	54	3550308005309	3550308005309	9600	94	745	181	1706	7,760417	17,770833	0,979167	1,885417
2	Polygon	0	49	3550308005308	3550308005308	9456	126	2282	595	2752	24,132826	29,103215	1,332487	6,292301
3	Polygon	0	49	3550308005307	3550308005307	10735	176	6	185	2557	0,055892	23,819283	1,639497	1,723335
4	Polygon	0	42	3550308005306	3550308005306	8373	4	131	4180	1120	1,564553	13,376329	0,047773	49,92237
5	Polygon	0	42	3550308005305	3550308005305	8231	8	2677	1253	2144	32,523387	26,047868	0,097194	15,222938
6	Polygon	0	38	3550308005304	3550308005304	9690	21	43	79	1726	0,443756	17,812178	0,216718	0,815273
7	Polygon	0	33	3550308005158	3550308005158	8666	7	612	410	2413	7,062082	27,84445	0,080775	4,731133
8	Polygon	0	69	3550308005157	3550308005157	15188	118	5643	1525	2481	37,154332	16,335265	0,776929	10,040822
9	Polygon	0	59	3550308005153	3550308005153	13426	14	1290	851	2722	9,608223	20,274095	0,104275	6,338448
10	Polygon	0	59	3550308005159	3550308005159	13579	133	3207	1235	3174	23,617135	23,374328	0,979454	9,094926
11	Polygon	0	61	3550308005160	3550308005160	14203	105	393	284	3121	2,767021	21,974231	0,73928	1,999578
12	Polygon	0	79	3550308005091	3550308005091	14143	820	1976	533	4833	13,971576	34,172382	5,797921	3,768649
13	Polygon	0	47	3550308005161	3550308005161	10783	219	612	392	1921	5,6756	17,815079	2,030975	3,635352
14	Polygon	0	66	3550308005165	3550308005165	14646	711	1000	310	3743	6,827803	25,556466	4,854568	2,116619
15	Polygon	0	41	3550308005090	3550308005090	8794	36	3036	1014	1904	34,523539	21,651126	0,40937	11,530589
16	Polygon	0	59	3550308005162	3550308005162	8706	143	1029	396	2235	11,819435	25,67195	1,642545	4,548587
17	Polygon	0	63	3550308005163	3550308005163	11362	258	94	133	3644	0,827319	32,071818	2,270727	1,170569
18	Polygon	0	45	3550308005094	3550308005094	9361	286	2527	348	1961	26,994979	20,948617	3,055229	3,717552
19	Polygon	0	53	3550308005167	3550308005167	12174	733	822	724	3260	6,752095	26,77838	6,021028	5,9471
20	Polygon	0	58	3550308005095	3550308005095	10473	257	3681	782	2947	35,147522	28,139024	2,453929	7,466819
21	Polygon	0	72	3550308005164	3550308005164	14365	97	1046	368	3979	7,281587	27,699269	0,675252	2,561762
22	Polygon	0	36	3550308005092	3550308005092	8253	77	5736	909	2109	69,501999	25,554344	0,932994	11,014177
23	Polygon	0	61	3550308005169	3550308005169	12961	164	3508	990	2599	27,065813	20,052465	1,265334	7,6383
24	Polygon	0	73	3550308005166	3550308005166	15461	162	362	444	4703	2,341375	30,418472	1,047798	2,871742
25	Polygon	0	71	3550308005093	3550308005093	13366	296	5952	912	3695	44,530899	27,644477	2,214574	6,823283

Record: 14 | Show: All Selected | Records (0 out of 310 Selected) | Options

Layers

- SAO\_PAULO\_area\_de...

ArcToolbox

- 3D Analyst Tools

Copy

Remove

Open Attribute Table

Joins and Relates

Zoom To Layer

Zoom To Make Visible

Visible Scale Range

Use Symbol Levels

Selection

Label Features

Convert Labels to Annotation...

Convert Features to Graphics...

Convert Symbology to Representation...

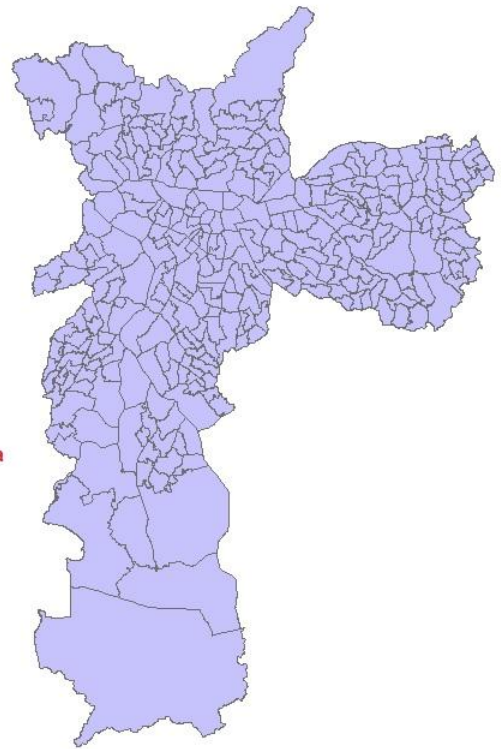
Data

- Repair Data Source
- Export Data...
- Make Permanent
- View Metadata...
- Review/Repatch Addresses...

Save As Layer File...

Create Layer Package...

Properties...



Exportar o shape com a tabela adicionada

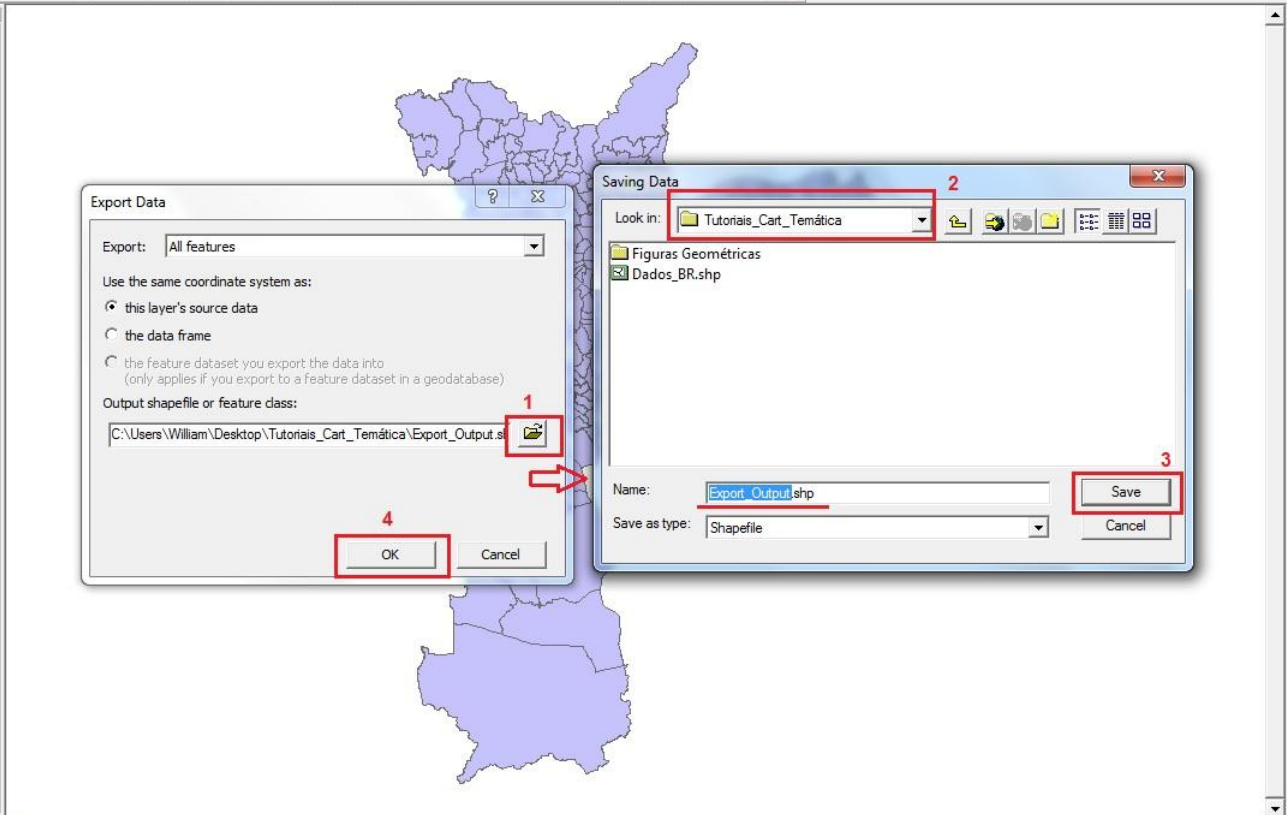


**Layers**

- SAO\_PAULO\_area\_de\_ponder

**ArcToolbox**

- 3D Analyst Tools
- Analysis Tools
- Cartography Tools
- Conversion Tools
- Data Interoperability Tools
- Data Management Tools
- Geocoding Tools
- Geostatistical Analyst Tools
- Linear Referencing Tools
- Mobile Tools
- Multidimension Tools
- Network Analyst Tools
- Samples
- Schematics Tools
- Server Tools
- Spatial Analyst Tools
- Spatial Statistics Tools
- Tracking Analyst Tools



**Export Data**

Export: All features

Use the same coordinate system as:

- this layer's source data
- the data frame
- the feature dataset you export the data into (only applies if you export to a feature dataset in a geodatabase)

Output shapefile or feature class:

C:\Users\William\Desktop\Tutoriais\_Cart\_Temática\Export\_Output.s

1

4

OK Cancel

**Saving Data**

Look in: Tutoriais\_Cart\_Temática

- Figuras Geométricas
- Dados\_BR.shp

Name: Export\_Output.shp

Save as type: Shapefile

3

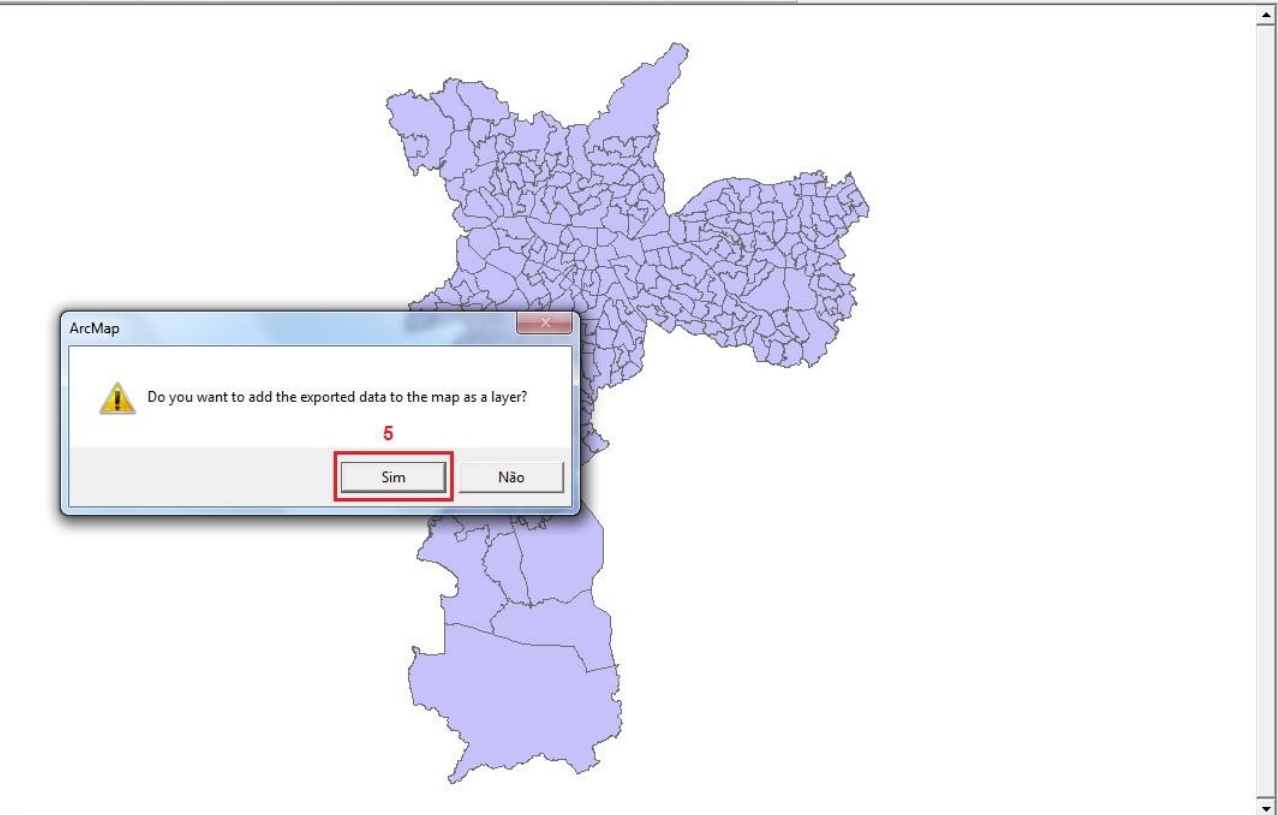
Save Cancel

**Layers**

- SAO\_PAULO\_area\_de\_ponder

**ArcToolbox**

- 3D Analyst Tools
- Analysis Tools
- Cartography Tools
- Conversion Tools
- Data Interoperability Tools
- Data Management Tools
- Geocoding Tools
- Geostatistical Analyst Tools
- Linear Referencing Tools
- Mobile Tools
- Multidimension Tools
- Network Analyst Tools
- Samples
- Schematics Tools
- Server Tools
- Spatial Analyst Tools
- Spatial Statistics Tools
- Tracking Analyst Tools



Layers  
coropletico

ArcToolbox  
3D Analyst Tools  
Analysis Tools

Editar tabela

FID	Shape*	Id	Qt Setores	CD APONDE	AP10	V002	V004	V005	V007	V008	apart.	alugados	vila	aguisi
0	Polygon	0	48	3550308005310	3550308005310	9618	330	4366	1429	1923	45,394053	19,995762	3,431087	14,857359
1	Polygon	0	54	3550308005309	3550308005309	9600	94	745	181	1706	7,760417	17,770833	0,979167	1,885417
2	Polygon	0	49	3550308005308	3550308005308	9456	126	2282	595	2752	24,132826	29,103215	1,332487	6,292301
3	Polygon	0	49	3550308005307	3550308005307	10735	176	6	185	2557	0,055892	23,819283	1,639497	1,723335
4	Polygon	0	42	3550308005306	3550308005306	8373	4	131	4180	1120	1,564553	13,376329	0,047773	49,92237
5	Polygon	0	42	3550308005305	3550308005305	8231	8	2677	1253	2144	32,523387	26,047868	0,097194	15,222938
6	Polygon	0	38	3550308005304	3550308005304	9690	21	43	79	1726	0,443756	17,812178	0,216718	0,815273
7	Polygon	0	33	3550308005158	3550308005158	8666	7	612	410	2413	7,062082	27,84445	0,080775	4,731133
8	Polygon	0	69	3550308005157	3550308005157	15188	118	5643	1525	2481	37,154332	16,335265	0,776929	10,040822
9	Polygon	0	59	3550308005153	3550308005153	13426	14	1290	851	2722	9,608223	20,274095	0,104275	6,338448
10	Polygon	0	59	3550308005159	3550308005159	13579	133	3207	1235	3174	23,61735	23,374328	0,979454	9,094926
11	Polygon	0	61	3550308005160	3550308005160	14203	105	393	284	3121	2,767021	21,974231	0,73928	1,999578
12	Polygon	0	79	3550308005091	3550308005091	14143	820	1976	533	4833	13,971576	34,172382	5,797921	3,768649
13	Polygon	0	47	3550308005161	3550308005161	10783	219	612	392	1921	5,6756	17,815079	2,030975	3,635352
14	Polygon	0	66	3550308005165	3550308005165	14646	711	1000	310	3743	6,827803	25,556466	4,854568	2,116619
15	Polygon	0	41	3550308005090	3550308005090	8794	36	3036	1014	1904	34,523539	21,651126	0,40937	11,530589
16	Polygon	0	59	3550308005162	3550308005162	8706	143	1029	396	2235	11,819435	25,67195	1,642545	4,548587
17	Polygon	0	63	3550308005163	3550308005163	11362	258	94	133	3644	0,827319	32,071818	2,270727	1,170569
18	Polygon	0	45	3550308005094	3550308005094	9361	286	2527	348	1961	26,994979	20,948617	3,055229	3,717552
19	Polygon	0	53	3550308005167	3550308005167	12174	733	822	724	3260	6,752095	26,77838	6,021028	5,9471
20	Polygon	0	58	3550308005095	3550308005095	10473	257	3681	762	2947	35,147522	28,139024	2,453929	7,466819
21	Polygon	0	72	3550308005164	3550308005164	14365	97	1046	368	3979	7,281587	27,699269	0,675252	2,561762
22	Polygon	0	36	3550308005092	3550308005092	8253	77	5736	909	2109	69,501999	25,554344	0,932994	11,014177
23	Polygon	0	61	3550308005169	3550308005169	12961	164	3508	990	2599	27,065813	20,052465	1,265334	7,6383
24	Polygon	0	73	3550308005166	3550308005166	15461	162	362	444	4703	2,341375	30,418472	1,047798	2,871742
25	Polygon	0	71	3550308005093	3550308005093	13366	296	5952	912	3695	44,530899	27,64477	2,214574	6,823283

Record: 0 Show: All Selected Records (0 out of 310 Selected) Options



Layers  
coropletico

ArcToolbox  
3D Analyst Tools  
Analysis Tools

Clique com o direito

Attributes of coropletico

FID	Shape*	Id	Qt Setores	CD APONDE	AP10	V002	V004	V005	V007	V008	...
0	Polygon	0	48	3550308005310	3550308005310	9618	330	4366	1429	1923	45,39405
1	Polygon	0	54	3550308005309	3550308005309	9600	94	745	181	1706	7,76041
2	Polygon	0	49	3550308005308	3550308005308	9456	126	2282	595	2752	24,13282
3	Polygon	0	49	3550308005307	3550308005307	10735	176	6	185	2557	0,05589
4	Polygon	0	42	3550308005306	3550308005306	8373	4	131	4180	1120	1,56455
5	Polygon	0	42	3550308005305	3550308005305	8231	8	2677	1253	2144	32,52338
6	Polygon	0	38	3550308005304	3550308005304	9690	21	43	79	1726	0,44375
7	Polygon	0	33	3550308005158	3550308005158	8666	7	612	410	2413	7,06208
8	Polygon	0	69	3550308005157	3550308005157	15188	118	5643	1525	2481	37,15433
9	Polygon	0	59	3550308005153	3550308005153	13426	14	1290	851	2722	9,60822
10	Polygon	0	59	3550308005159	3550308005159	13579	133	3207	1235	3174	23,6173
11	Polygon	0	61	3550308005160	3550308005160	14203	105	393	284	3121	2,76702
12	Polygon	0	79	3550308005091	3550308005091	14143	820	1976	533	4833	13,97157
13	Polygon	0	47	3550308005161	3550308005161	10783	219	612	392	1921	5,675
14	Polygon	0	66	3550308005165	3550308005165	14646	711	1000	310	3743	6,82780
15	Polygon	0	41	3550308005090	3550308005090	8794	36	3036	1014	1904	34,52353
16	Polygon	0	59	3550308005162	3550308005162	8706	143	1029	396	2235	11,81943
17	Polygon	0	63	3550308005163	3550308005163	11362	258	94	133	3644	0,82731
18	Polygon	0	45	3550308005094	3550308005094	9361	286	2527	348	1961	26,99497
19	Polygon	0	53	3550308005167	3550308005167	12174	733	822	724	3260	6,75205
20	Polygon	0	58	3550308005095	3550308005095	10473	257	3681	762	2947	35,14752
21	Polygon	0	72	3550308005164	3550308005164	14365	97	1046	368	3979	7,281587
22	Polygon	0	36	3550308005092	3550308005092	8253	77	5736	909	2109	69,501999
23	Polygon	0	61	3550308005169	3550308005169	12961	164	3508	990	2599	27,065813
24	Polygon	0	73	3550308005166	3550308005166	15461	162	362	444	4703	2,341375
25	Polygon	0	71	3550308005093	3550308005093	13366	296	5952	912	3695	44,530899

- Sort Ascending
- Sort Descending
- Advanced Sorting...
- Summarize...
- Statistics...
- Field Calculator...
- Calculate Geometry...
- Turn Field Off
- Freeze/Unfreeze Column
- Delete Field
- Properties...

Attributes of coropletico

FID	Shape*	Id	Qt Setores	CD APONDE	AP10	V002	V004	V005	V007	V008	apart	alugados	vila	aguisi
0	Polygon	0	48	3550308005310	3550308005310	9618	3550308005310	9618	3550308005310	9618	4,857559	1,885417	1,723335	4,857559
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2	Polygon	0	49	3550308005308	3550308005308	9456	3550308005308	9456	3550308005308	9456	1,723335	5,222938	0,815273	1,723335
3	Polygon	0	49	3550308005307	3550308005307	10735	3550308005307	10735	3550308005307	10735	49,92237	4,731133	0,040822	49,92237
4	Polygon	0	42	3550308005306	3550308005306	8373	3550308005306	8373	3550308005306	8373	5,222938	6,338448	9,094926	5,222938
5	Polygon	0	42	3550308005305	3550308005305	8231	3550308005305	8231	3550308005305	8231	1,999578	3,768649	3,768649	1,999578
6	Polygon	0	38	3550308005304	3550308005304	9690	3550308005304	9690	3550308005304	9690	3,768649	3,768649	3,768649	3,768649
7	Polygon	0	33	3550308005158	3550308005158	8666	3550308005158	8666	3550308005158	8666	3,768649	3,768649	3,768649	3,768649
8	Polygon	0	69	3550308005157	3550308005157	15188	3550308005157	15188	3550308005157	15188	3,768649	3,768649	3,768649	3,768649
9	Polygon	0	59	3550308005153	3550308005153	13426	3550308005153	13426	3550308005153	13426	3,768649	3,768649	3,768649	3,768649
10	Polygon	0	59	3550308005159	3550308005159	13579	3550308005159	13579	3550308005159	13579	3,768649	3,768649	3,768649	3,768649
11	Polygon	0	61	3550308005160	3550308005160	14203	3550308005160	14203	3550308005160	14203	3,768649	3,768649	3,768649	3,768649
12	Polygon	0	79	3550308005091	3550308005091	14143	3550308005091	14143	3550308005091	14143	3,768649	3,768649	3,768649	3,768649
13	Polygon	0	47	3550308005161	3550308005161	10783	3550308005161	10783	3550308005161	10783	3,768649	3,768649	3,768649	3,768649
14	Polygon	0	66	3550308005165	3550308005165	14646	3550308005165	14646	3550308005165	14646	3,768649	3,768649	3,768649	3,768649
15	Polygon	0	41	3550308005090	3550308005090	8794	3550308005090	8794	3550308005090	8794	3,768649	3,768649	3,768649	3,768649
16	Polygon	0	59	3550308005162	3550308005162	8706	3550308005162	8706	3550308005162	8706	3,768649	3,768649	3,768649	3,768649
17	Polygon	0	63	3550308005163	3550308005163	11362	3550308005163	11362	3550308005163	11362	3,768649	3,768649	3,768649	3,768649
18	Polygon	0	45	3550308005094	3550308005094	9361	3550308005094	9361	3550308005094	9361	3,768649	3,768649	3,768649	3,768649
19	Polygon	0	53	3550308005167	3550308005167	12174	3550308005167	12174	3550308005167	12174	3,768649	3,768649	3,768649	3,768649
20	Polygon	0	58	3550308005095	3550308005095	10473	3550308005095	10473	3550308005095	10473	3,768649	3,768649	3,768649	3,768649
21	Polygon	0	72	3550308005164	3550308005164	14365	3550308005164	14365	3550308005164	14365	3,768649	3,768649	3,768649	3,768649
22	Polygon	0	36	3550308005092	3550308005092	8253	3550308005092	8253	3550308005092	8253	3,768649	3,768649	3,768649	3,768649
23	Polygon	0	61	3550308005169	3550308005169	12961	3550308005169	12961	3550308005169	12961	3,768649	3,768649	3,768649	3,768649
24	Polygon	0	73	3550308005166	3550308005166	15461	3550308005166	15461	3550308005166	15461	3,768649	3,768649	3,768649	3,768649
25	Polygon	0	71	3550308005093	3550308005093	13366	3550308005093	13366	3550308005093	13366	3,768649	3,768649	3,768649	3,768649

Field Properties

Name:  1

Alias:  2

Type: Double

Display

Turn Field off

Use Field as Primary Display Field

Number Format: Numeric ... 3

Data

Precision: 15

Scale: 6

OK Cancel Apply 5

Number Format

Category: Numeric

Rounding

Number of decimal places

Number of significant digits

3

Alignment

Left

Right  12 characters

Show thousands separators

Pad with zeros

Show plus sign

General options for the display of numbers

OK Cancel 4

Layers  
coropletico

ArcToolbox  
3D Analyst Tools  
Analysis Tools

Attributes of coropletico

FID	Shape*	Id	Qt Setores	CD APONDE	AP10	V002	V004	V005	V007	V008	% apart	% alugado	% vila	% aquisi
0	Polygon	0	48	3550308005310	3550308005310	9618	330	4366	1429	1923	45,39	19,99	3,43	14,86
1	Polygon	0	54	3550308005309	3550308005309	9600	94	745	181	1706	7,76	17,77	0,98	1,89
2	Polygon	0	49	3550308005308	3550308005308	9456	126	2282	595	2752	24,13	29,1	1,33	6,29
3	Polygon	0	49	3550308005307	3550308005307	10735	176	6	185	2557	0,06	23,82	1,64	1,72
4	Polygon	0	42	3550308005306	3550308005306	8373	4	131	4180	1120	1,56	13,38	0,05	49,92
5	Polygon	0	42	3550308005305	3550308005305	8231	8	2677	1253	2144	32,52	26,05	0,1	15,22
6	Polygon	0	38	3550308005304	3550308005304	9690	21	43	79	1726	0,44	17,81	0,22	0,82
7	Polygon	0	33	3550308005158	3550308005158	8666	7	612	410	2413	7,06	27,84	0,08	4,73
8	Polygon	0	69	3550308005157	3550308005157	15188	118	5643	1525	2481	37,15	16,34	0,78	10,04
9	Polygon	0	59	3550308005153	3550308005153	13426	14	1290	851	2722	9,61	20,27	0,1	6,34
10	Polygon	0	59	3550308005159	3550308005159	13579	133	3207	1235	3174	23,62	23,37	0,98	9,09
11	Polygon	0	61	3550308005160	3550308005160	14203	105	393	284	3121	2,77	21,97	0,74	2
12	Polygon	0	79	3550308005091	3550308005091	14143	820	1976	533	4833	13,97	34,17	5,8	3,77
13	Polygon	0	47	3550308005161	3550308005161	10783	219	612	392	1921	5,68	17,82	2,03	3,64
14	Polygon	0	66	3550308005165	3550308005165	14646	711	1000	310	3743	6,83	25,56	4,85	2,12
15	Polygon	0	41	3550308005090	3550308005090	8794	36	3036	1014	1904	34,52	21,65	0,41	11,53
16	Polygon	0	59	3550308005162	3550308005162	8706	143	1029	396	2235	11,82	25,67	1,64	4,55
17	Polygon	0	63	3550308005163	3550308005163	11362	258	94	133	3644	0,83	32,07	2,27	1,17
18	Polygon	0	45	3550308005094	3550308005094	9361	286	2527	348	1961	26,99	20,95	3,06	3,72
19	Polygon	0	53	3550308005167	3550308005167	12174	733	822	724	3260	6,75	26,78	6,02	5,95
20	Polygon	0	58	3550308005095	3550308005095	10473	257	3681	762	2947	35,15	28,14	2,45	7,47
21	Polygon	0	72	3550308005164	3550308005164	14365	97	1046	368	3979	7,28	27,7	0,68	2,56
22	Polygon	0	36	3550308005092	3550308005092	8253	77	5736	909	2109	69,5	25,55	0,93	11,01
23	Polygon	0	61	3550308005169	3550308005169	12961	164	3508	990	2599	27,07	20,05	1,27	7,64
24	Polygon	0	73	3550308005166	3550308005166	15461	162	362	444	4703	2,34	30,42	1,05	2,87
25	Polygon	0	71	3550308005093	3550308005093	13366	296	5952	912	3695	44,53	27,64	2,21	6,82

Record: 0 Show: All Selected Records (0 out of 310 Selected) Options



Layers

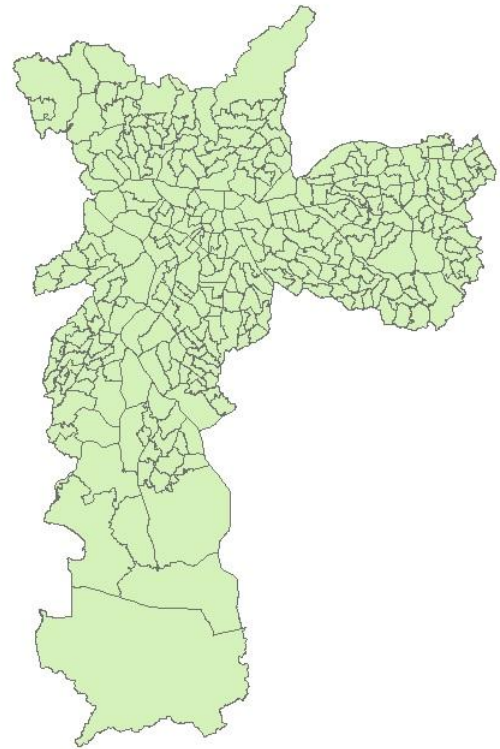
- coropletico

ArcToolbox

- 3D Analyst Tools
- Display
- Editor
- Geoprocessing Tools
- Layout
- Map
- Navigation
- Reference
- System
- Utility Tools
- Window
- Zoom

Context Menu:

- Copy
- Remove
- Open Attribute Table
- Joins and Relates
- Zoom To Layer
- Zoom To Make Visible
- Visible Scale Range
- Use Symbol Levels
- Selection
- Label Features
- Convert Labels to Annotation...
- Convert Features to Graphics...
- Convert Symbology to Representation...
- Data
- Save As Layer File...
- Create Layer Package...
- Properties...**



Layers

- coropletico

ArcToolbox

- 3D Analyst Tools
- Analysis Tools
- Cartography Tools
- Conversion Tools
- Data Interoperability Tools
- Data Management Tools
- Geocoding Tools
- Geostatistical Analyst Tools
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- Server Tools
- Spatial Analyst Tools
- Spatial Statistics Tools
- Tracking Analyst Tools

Layer Properties

General | Source | Selection | Display | **Symbology** | Fields | Definition Query | Labels | Joins & Relates | HTML Popup

Show:

**Features**

- Categories** 2
- Quantities**
- Graduated colors
- Graduated symbols
- Proportional symbols
- Dot density

**Charts**

**Multiple Attributes**

Draw quantities using color to show values. Import...

Fields:

Value: none

Normalization: none

Color Ramp:

Symbol	Range	Label
	Qt_Setores	
	V002	
	V004	
	V005	
	V007	
	V008	
	%_abart	
	%_alugados	
	%_vila	
	%_aquisi	

Classification:

Manual

Classes:  Classify...

Show class ranges using feature values

Advanced

OK Cancelar Aplicar

Layers

- coropletico

ArcToolbox

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- Tracking Analyst Tools

Layer Properties

General | Source | Selection | Display | Symbology | Fields | Definition Query | Labels | Joins & Relates | HTML Popup

Show:

**Features**

**Categories**

**Quantities**

- Graduated colors
- Graduated symbols
- Proportional symbols
- Dot density

**Charts**

**Multiple Attributes**

Draw quantities using color to show values. Import...

Fields

Value: %\_apart

Classification

Natural Breaks (Jenks)

Classes: 5 **Classify...** 5

Color Ramp:

Symbol	Range	Label
	0,02 - 8,03	0,02 - 8,03
	8,04 - 21,80	8,04 - 21,80
	21,81 - 42,58	21,81 - 42,58
	42,59 - 70,95	42,59 - 70,95
	70,96 - 97,17	70,96 - 97,17

Show class ranges using feature values

Advanced

OK Cancelar Aplicar



**Layers**

- coropletico

**ArcToolbox**

- 3D Analyst Tools
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**Classification**

Method: Natural Breaks (Jenks) 6

Classes: **Equal Interval**

Data Exclusion:  Defined Interval  Quantile  Natural Breaks (Jenks)  Geometrical Interval  Standard Deviation

Columns: 100  Show Std. Dev.  Show Mean

**Classification Statistics**

Count:	310
Minimum:	0,02
Maximum:	97,17
Sum:	8709,21
Mean:	28,09
Median:	16,98
Standard Deviation:	27,86

Break Values %

8,03	%
21,80	%
42,58	%
70,95	%
97,17	%

7 **OK** Cancel

Snap breaks to data values

**Layers**

- coropletico

**ArcToolbox**

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**Layer Properties**

General | Source | Selection | Display | Symbology | Fields | Definition Query | Labels | Joins & Relates | HTML Popup

Show:

**Features**

**Categories**

**Quantities**

- Graduated colors
- Graduated symbols
- Proportional symbols
- Dot density

**Charts**

**Multiple Attributes**

**Draw quantities using color to show values.** Import...

Fields


Value: %\_apart

Classification

Equal Interval

Classes: 5 Classify...

Normalization: none

Color Ramp:  8

Symbol	Range	Label
	0,02	0,02 - 19,45
	19,4	19,46 - 38,88
	38,8	38,89 - 58,31
	58,3	58,32 - 77,74
	77,7	77,75 - 97,17

Show class r

Advanced

OK Cancelar Aplicar

Layers

- coropletico

ArcToolbox

- 3D Analyst Tools
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- Tracking Analyst Tools

Layer Properties

General | Source | Selection | Display | Symbology | Fields | Definition Query | Labels | Joins & Relates | HTML Popup

Show:

**Draw quantities using color to show values.** Import...

Fields: Value: %\_apart Classification: Equal Interval

Normalization: none Classes: 5 Classify...

Color Ramp:

Symbol	Range	Label
	0,02 - 19,45	0,02 - 19,45
	19,46 - 38,88	19,46 - 38,88
	38,89 - 58,31	38,89 - 58,31
	58,32 - 77,74	58,32 - 77,74
	77,75 - 97,17	77,75 - 97,17

Show class ranges using feature values Advanced

9

OK Cancel Aplicar

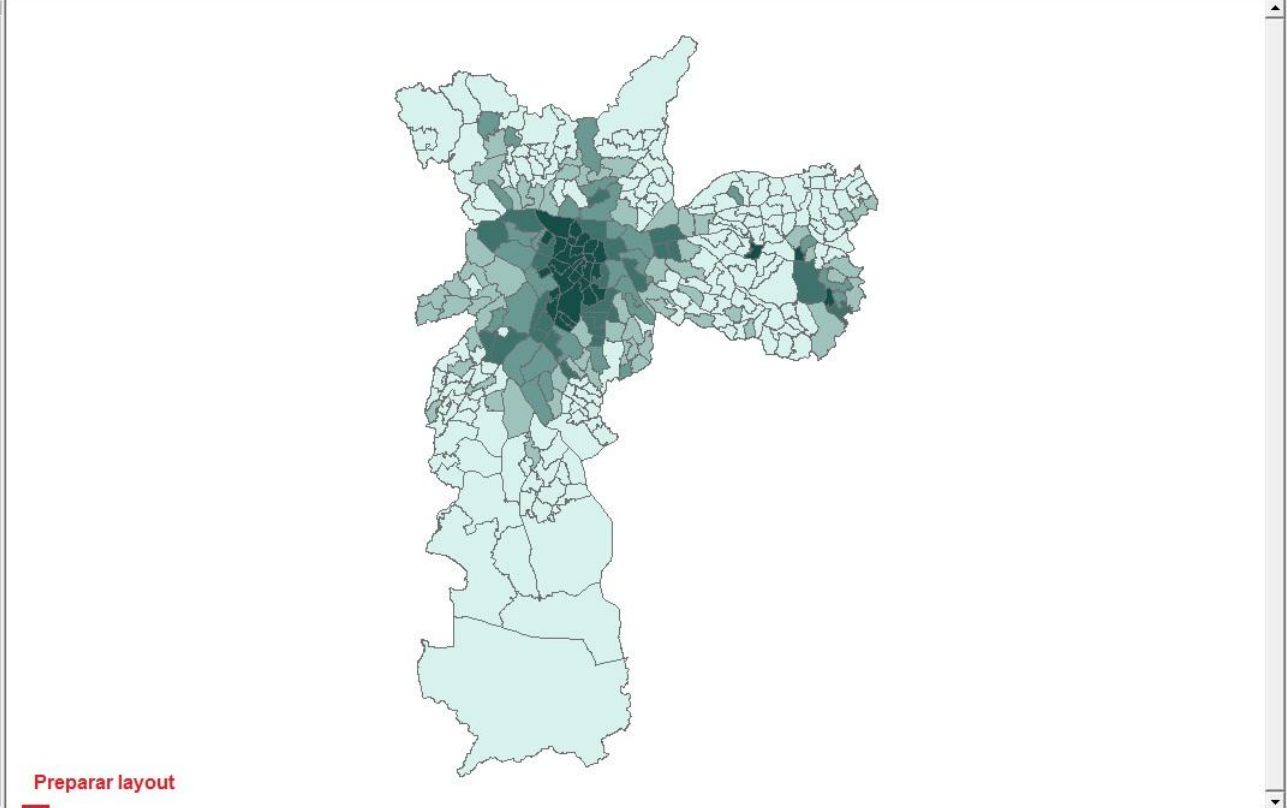


**Layers**

- coropletico
  - %\_apart
    - 0,02 - 19,45
    - 19,46 - 38,88
    - 38,89 - 58,31
    - 58,32 - 77,74
    - 77,75 - 97,17

**ArcToolbox**

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- Tracking Analyst Tools

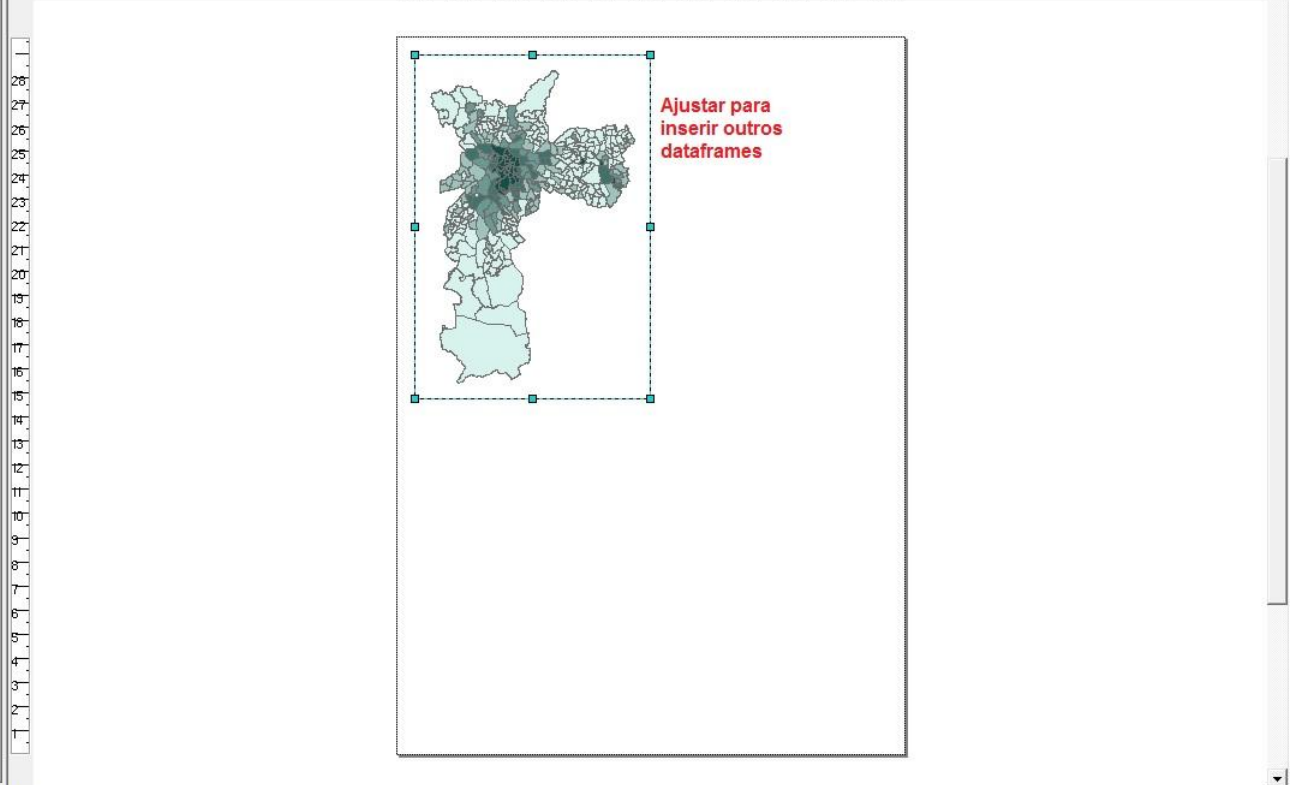


**Layers**

- coropletico
- %\_apart
  - 0,02 - 19,45
  - 19,46 - 38,88
  - 38,89 - 58,31
  - 58,32 - 77,74
  - 77,75 - 97,17

**ArcToolbox**

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**Layers**

- coropletico
  - %\_apart
    - 0,02 - 19,45
    - 19,46 - 38,88
    - 38,89 - 58,31
    - 58,32 - 77,74
    - 77,75 - 97,17

**ArcToolbox**

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**Legend Wizard**

Choose which layers you want to include in your legend

Map Layers	Legend Items
coropletico	coropletico

Set the number of columns in your legend: 1

Preview

< Voltar Avancar > Cancelar

**Layers**

- coropletico
  - %\_apart
  - 0,02 - 19,45
  - 19,46 - 38,88
  - 38,89 - 58,31
  - 58,32 - 77,74
  - 77,75 - 97,17

**ArcToolbox**

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**Legend Wizard**

Legend Title  
% apartamentos  
(Intervalos iguais)

Legend Title font properties

Color: [Black]

Size: 14

Font: Arial

**B** *I* U

Title Justification

You can use this to control the justification of the title with the rest of the legend.

[Left] [Center] [Right] [Justified]

Preview

< Voltar Avancar > Cancelar

**Layers**

- coropletico
  - %\_apart
    - 0,02 - 19,45
    - 19,46 - 38,88
    - 38,89 - 58,31
    - 58,32 - 77,74
    - 77,75 - 97,17

**ArcToolbox**

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**Legend Wizard**

Legend Frame

Border: [Dropdown]

Background: [Dropdown]

Drop Shadow: [Dropdown]

Gap: 10,00

Rounding: 0 %

Preview

< Voltar **Avançar >** Cancelar



**Layers**

- coropletico
  - %\_apart
    - 0,02 - 19,45
    - 19,46 - 38,88
    - 38,89 - 58,31
    - 58,32 - 77,74
    - 77,75 - 97,17

**ArcToolbox**

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**Legend Wizard**

You can change the size and shape of the symbol patch used to represent line and polygon features in your legend.

Select one or more legend items whose patches you want to change.

Legend items:

- coropletico

Patch:

Width: 28,00 (pts.)

Height: 14,00 (pts.)

Line: [dropdown]

Area: [dropdown]

Preview

< Voltar Avancar > Cancelar

**Layers**

- coropletico
  - %\_apart
    - 0,02 - 19,45
    - 19,46 - 38,88
    - 38,89 - 58,31
    - 58,32 - 77,74
    - 77,75 - 97,17

**ArcToolbox**

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**Legend Wizard**

Set the spacing between the parts of your legend.

Spacing between:

- Title and Legend Items: 3,00 (pts.)
- Legend Items: 5,00 (pts.)
- Columns: 5,00 (pts.)
- Headings and Classes: 5,00 (pts.)
- Labels and Descriptions: 5,00 (pts.)
- Patches (vertically): 5,00 (pts.)
- Patches and Labels: 5,00 (pts.)

**Preview**

spacing — **Title**

<b>Legend Item 1</b>	<b>Legend Item 3</b>
Heading	Heading
Label description	Label description
Label description	Label description
Label description	Label description
<b>Legend Item 2</b>	<b>Legend Item 4</b>
label description	label description

< Voltar Concluir Cancelar

**Layers**

- coropletico
  - %\_apart
  - 0,02 - 19,45
  - 19,46 - 38,88
  - 38,89 - 58,31
  - 58,32 - 77,74
  - 77,75 - 97,17

**Legend Properties**

Legend **Items** Frame Size and Position

Specify Legend Items

Map Layers: coropletico

Legend Items: coropletico

Style...

Place in new column

Columns: 1

Change text

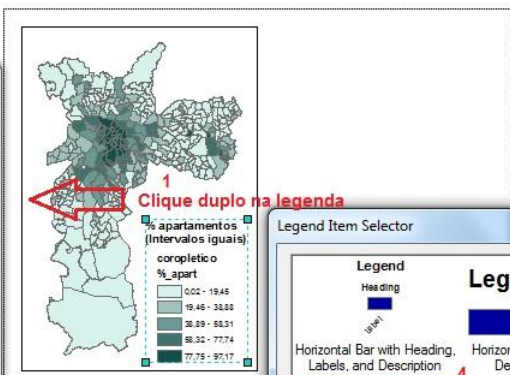
All items Selected item(s)

Apply to the whole item Symbol...

Map Connection

- Only display layers that are checked on in the Table Of Contents
- Add a new item to the legend when a new layer is added to the map
- Reorder the legend items when the map layers are reordered
- Scale symbols when a reference scale is set

OK Cancel Aplicar



Clique duplo na legenda

**Legend Item Selector**

Legend

Heading

Label

Horizontal Bar with Heading, Labels, and Description

Legend

Description

Horizontal Single Symbol Description Only

Legend

Layer Name

Label

Horizontal Single Symbol Layer Name and Description

Legend

Layer Name

Label

Horizontal Single Symbol Layer Name and Label

Legend

Heading

Label

Horizontal with Heading and Labels

Legend

Layer Name

Heading

Label

Horizontal with Layer Name

Preview

Legend coropletico

%\_apart

0,02 - 19,45

19,46 - 38,88

38,89 - 58,31

58,32 - 77,74

77,75 - 97,17

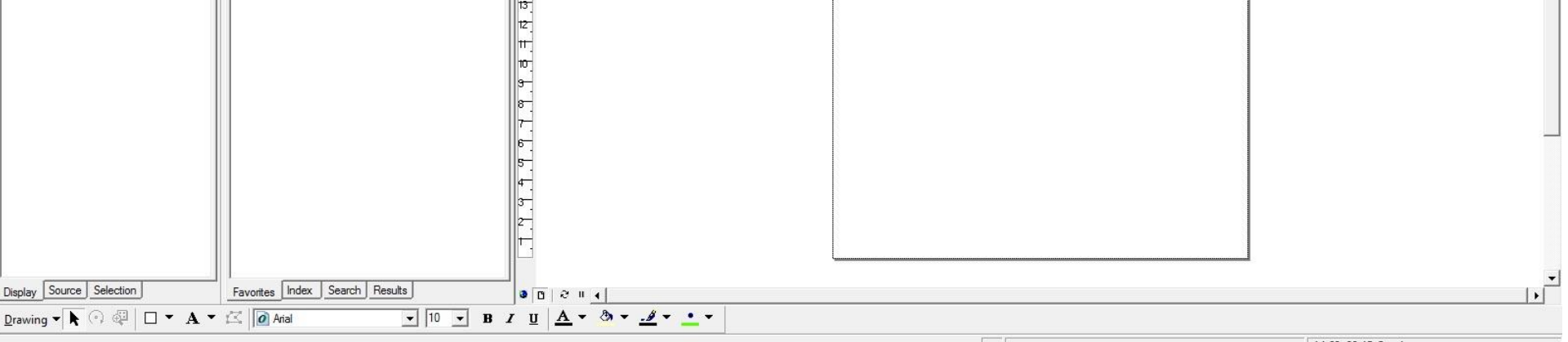
Properties...

More Styles

Save... Reset

OK Cancel





Scale Bar Selector

Scale Line 1  
Scale Line 2  
Scale Line 3  
Stepped Scale Line  
Alternating Scale Bar 1  
Alternating Scale Bar 2

Scale to fit page

Properties...  
More Styles  
Save...  
Reset  
OK  
Cancel

Scale Bar

Scale and Units | Numbers and Marks | Format

Scale

Division value: Auto

Number of divisions: 2

Number of subdivisions: 4

Show one division before zero

When resizing...  
Adjust division value

Units

Division Units: Kilometers

Label Position: after labels

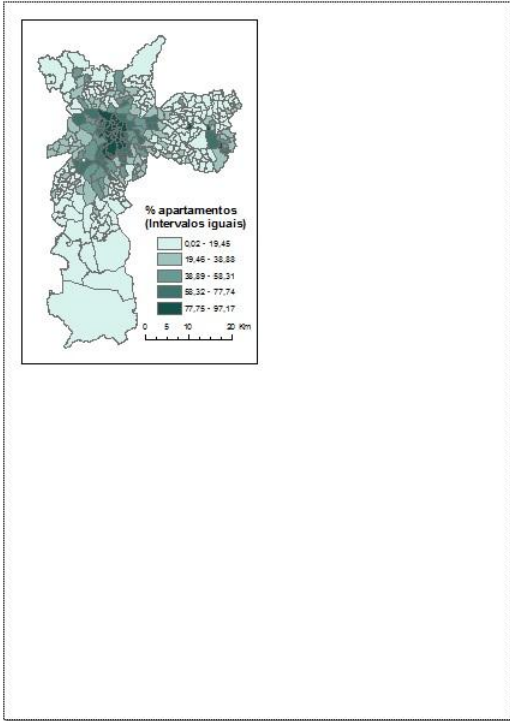
Label: Km Symbol...

Gap: 3 pt

OK Cancel Aplicar

- Layers
- coropletico
- %\_apart
- 0,02 - 19,45
- 19,46 - 38,88
- 38,89 - 58,31
- 58,32 - 77,74
- 77,75 - 97,17

- Neatline...
- Legend...
- North Arrow...
- Scale Bar...
- Scale Text...
- Picture...
- Object...
- Toolbox
- Analyst Tools
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**Layers**

- coropletico
  - %\_apart
    - 0,02 - 19,45
    - 19,46 - 38,88
    - 38,89 - 58,31
    - 58,32 - 77,74
    - 77,75 - 97,17

**ArcToolbox**

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**Properties**

Text | Size and Position

Text: Fonte: IBGE (2011) **2**

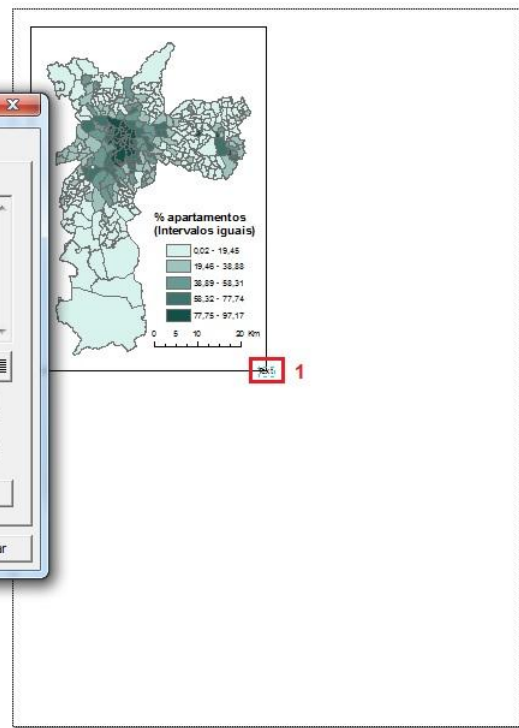
Font: Arial 10,00

Angle: 0,00 Character Spacing: 0,00

Leading: 0,00

About Formatting Text Change Symbol...

**3** OK Cancel Aplicar



**Layers**

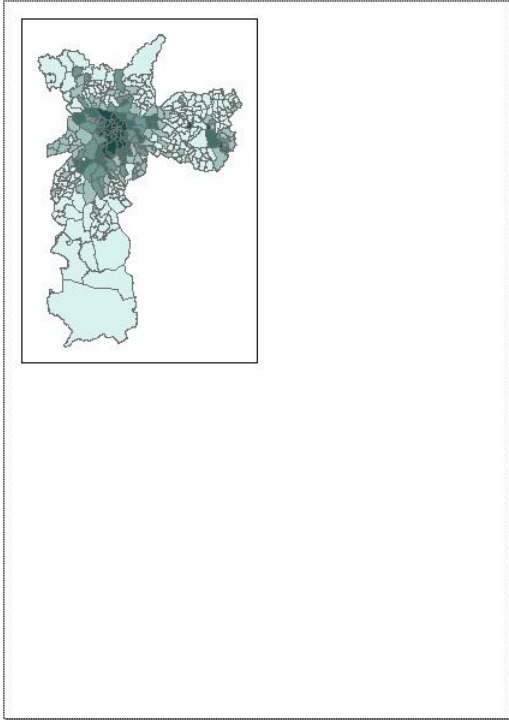
- coropletico
- %\_apart
  - 0,02 - 19,45
  - 19,46 - 38,88
  - 38,89 - 58,31
  - 58,32 - 77,74
  - 77,75 - 97,17

**Text**

- Neatline...
- Legend...
- North Arrow...
- Scale Bar...
- Scale Text...
- Picture...
- Object...

**Toolbox**

- Analyst Tools
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Layers

- coropletico
  - %\_apart
    - 0,02 - 19,45
    - 19,46 - 38,88
    - 38,89 - 58,31
    - 58,32 - 77,74
    - 77,75 - 97,17
- New Data Frame

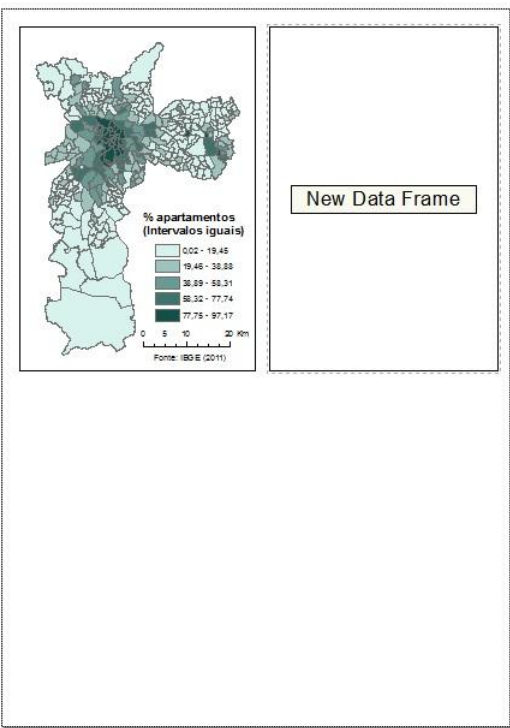
Edit Task

- ArcToolbox
  - 3D Analyst Tools
  - Analysis Tools
  - Cartography Tools
  - Conversion Tools
  - Data Interoperability Tools
  - Data Management Tools
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  - Spatial Statistics Tools
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Scale bar and coordinate grid

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1





**Layers**

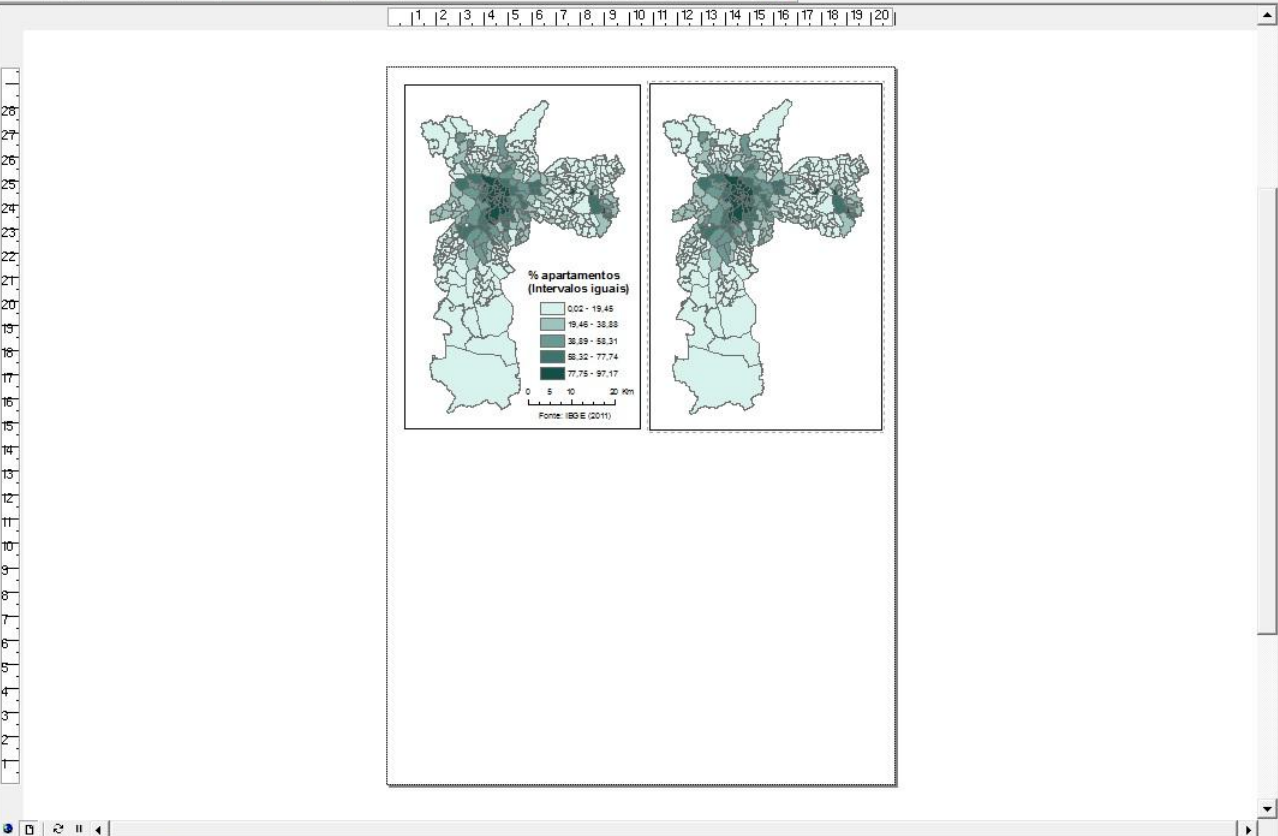
- coropletico **Clicar, segurando e arrastar para o outro dataframe**
- %\_apart
  - 0,02 - 19,45
  - 19,46 - 38,88
  - 38,89 - 58,31
  - 58,32 - 77,74
  - 77,75 - 97,17

**New Data Frame**

- coropletico
  - %\_apart
    - 0,02 - 19,45
    - 19,46 - 38,88
    - 38,89 - 58,31
    - 58,32 - 77,74
    - 77,75 - 97,17

**ArcToolbox**

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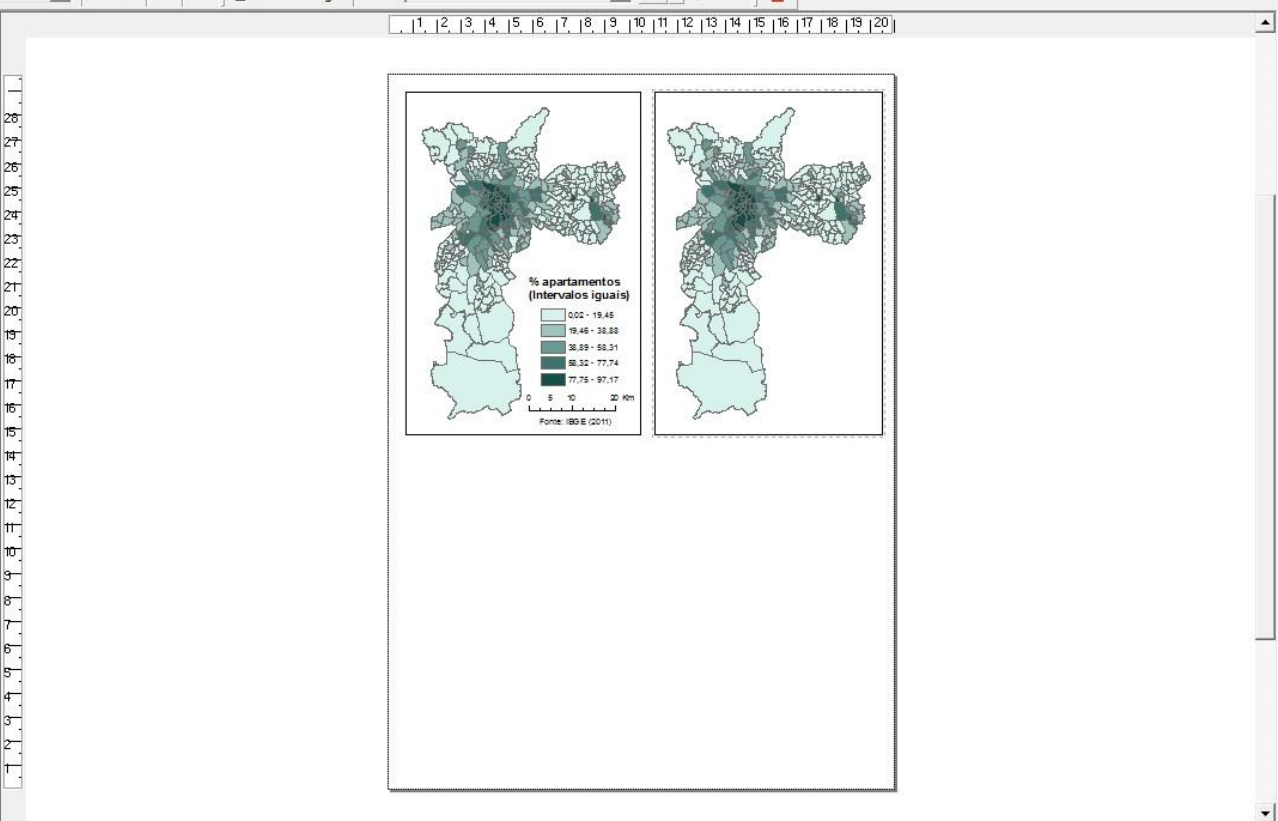


**Layers**

- coropletrico
  - %\_apart
    - 0,02 - 19,45
    - 19,46 - 38,88
    - 38,89 - 58,31
    - 58,32 - 77,74
    - 77,75 - 97,17

**New Data Frame**

- coropletrico
  - Copy
  - Remove
  - Open Attribute Table
  - Joins and Relates
  - Zoom To Layer
  - Zoom To Make Visible
  - Visible Scale Range
  - Use Symbol Levels
  - Selection
  - Label Features
  - Convert Labels to Annotation...
  - Convert Features to Graphics...
  - Convert Symbolology to Representation...
  - Data
  - Save As Layer File...
  - Create Layer Package...
  - Properties...**



Layers

- coropletico
  - %\_apart
    - 0,02 - 19,45
    - 19,46 - 38,88
    - 38,89 - 58,31
    - 58,32 - 77,74
    - 77,75 - 97,17

New Data Frame

- coropletico
  - %\_apart
    - 0,02 - 19,45
    - 19,46 - 38,88
    - 38,89 - 58,31
    - 58,32 - 77,74
    - 77,75 - 97,17

Layer Properties

General | Source | Selection | Display | **Symbology** | Fields | Definition Query | Labels | Joins & Relates | HTML Popup

Show: **Quantities**

Draw quantities using color to show values.

Fields: Value: **%\_apart** Classification: Equal Interval

Normalization: none

Classes: 5 **Classify...**

Color Ramp: [Color Ramp]

Symbol	Range	Label
[Light Green]	0,02 - 19,45	0,02 - 19,45
[Light Green]	19,46 - 38,88	19,46 - 38,88
[Green]	38,89 - 58,31	38,89 - 58,31
[Dark Green]	58,32 - 77,74	58,32 - 77,74
[Dark Green]	77,75 - 97,17	77,75 - 97,17

Show class ranges using feature values

Advanced

**OK** Cancel Aplicar

Classification

Classification Method: **Quantile**

Classes: Manual Interval, Equal Interval, **Defined Interval**, **Quantile**, Natural breaks (Jenks), Geometrical Interval, Standard Deviation

Data Exclusion: [ ]

Columns: 100 [ ] Show Std. Dev. [ ] Show Mean [ ]

Classification Statistics

Count:	310
Minimum:	0,02
Maximum:	97,17
Sum:	8709,21
Mean:	28,09
Median:	16,98
Standard Deviation:	27,86

Break Values %

3,76	%
10,87	%
26,83	%
55,24	%
97,17	%

**OK** Cancel



**Layers**

- coropletico
  - %\_apart
    - 0,02 - 19,45
    - 19,46 - 38,88
    - 38,89 - 58,31
    - 58,32 - 77,74
    - 77,75 - 97,17
- New Data Frame
  - coropletico
    - %\_apart
      - 0,02 - 3,76
      - 3,77 - 10,87
      - 10,88 - 26,83
      - 26,84 - 55,24
      - 55,25 - 97,17

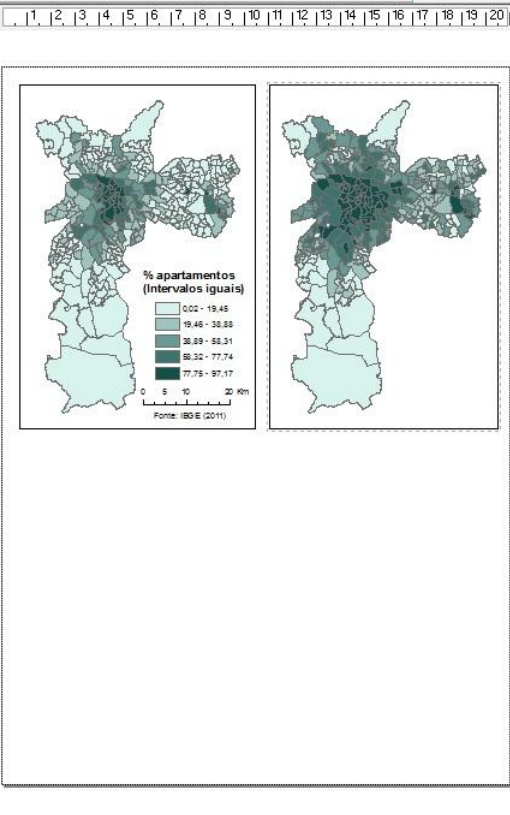
**ArcToolbox**

- 3D Analyst Tools
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Scale: 1:560.592

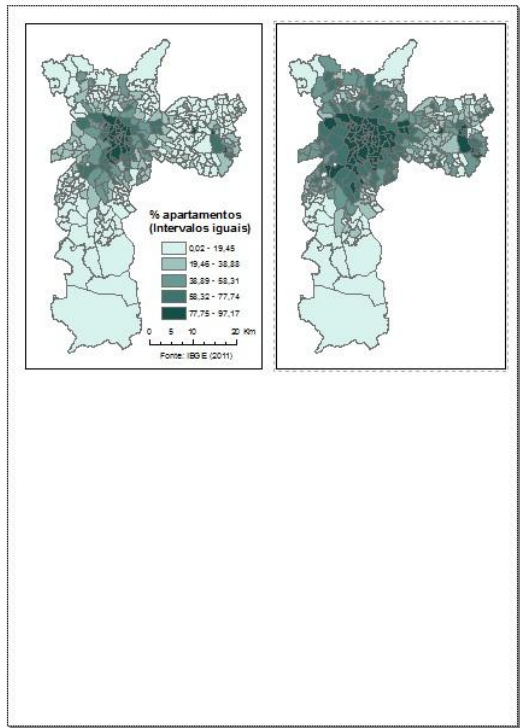
Coordinates: UTM, Zone 18S, Datum: IBS E (2011)

Scale bar: 0 5 10 20 Km



- Toolbox
- Analyst Tools
- Analysis Tools
- Cartography Tools
- Inversion Tools
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- Tracking Analyst Tools

**Inserir legenda, escala e fonte.**

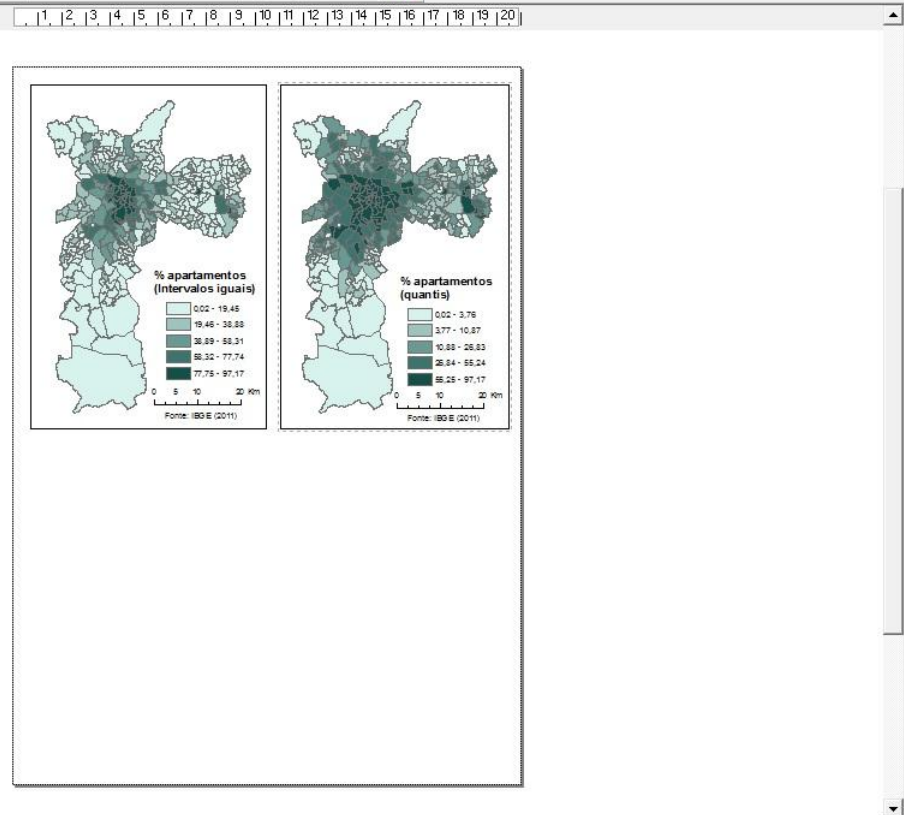


**Layers**

- coropletico
  - %\_apart
    - 0,02 - 19,45
    - 19,46 - 38,88
    - 38,89 - 58,31
    - 58,32 - 77,74
    - 77,75 - 97,17
- New Data Frame**
  - coropletico
    - %\_apart
      - 0,02 - 3,76
      - 3,77 - 10,87
      - 10,88 - 26,83
      - 26,84 - 55,24
      - 55,25 - 97,17

**ArcToolbox**

- 3D Analyst Tools
- Analysis Tools
- Cartography Tools
- Conversion Tools
- Data Interoperability Tools
- Data Management Tools
- Geocoding Tools
- Geostatistical Analyst Tools
- Linear Referencing Tools
- Mobile Tools
- Multidimension Tools
- Network Analyst Tools
- Samples
- Schematics Tools
- Server Tools
- Spatial Analyst Tools
- Spatial Statistics Tools
- Tracking Analyst Tools





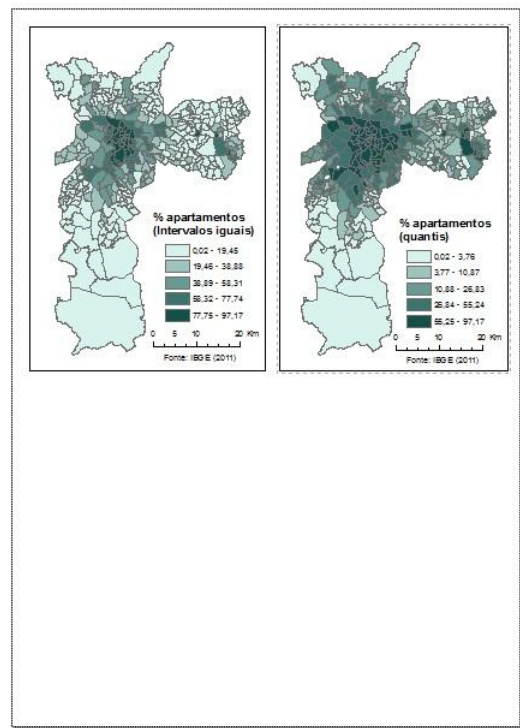
**Layers**

- coropletico
  - %\_apart
    - 0,02 - 19,45
    - 19,46 - 38,88
    - 38,89 - 58,31
    - 58,32 - 77,74
    - 77,75 - 97,17

**New Data Frame**

- coropletico
  - %\_apart
    - 0,02 - 3,76
    - 3,77 - 10,87
    - 10,88 - 26,83
    - 26,84 - 55,24
    - 55,25 - 97,17

- Linear Referencing Tools
- Mobile Tools
- Multidimension Tools
- Network Analyst Tools
- Samples
- Schematics Tools
- Server Tools
- Spatial Analyst Tools
- Spatial Statistics Tools
- Tracking Analyst Tools

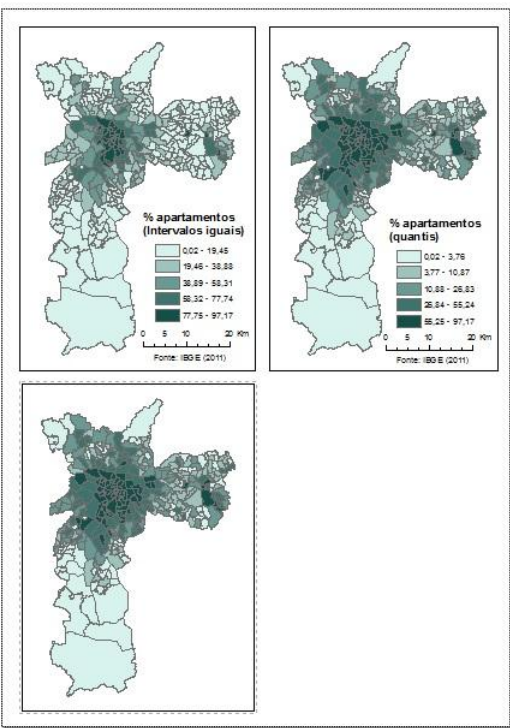


**Layers**

- coropletico
  - %\_apart
    - 0,02 - 19,45
    - 19,46 - 38,88
    - 38,89 - 58,31
    - 58,32 - 77,74
    - 77,75 - 97,17
- New Data Frame
  - coropletico
    - %\_apart
      - 0,02 - 3,76
      - 3,77 - 10,87
      - 10,88 - 26,83
      - 26,84 - 55,24
      - 55,25 - 97,17
  - New Data Frame 2
    - coropletico
      - %\_apart
        - 0,02 - 3,76
        - 3,77 - 10,87
        - 10,88 - 26,83
        - 26,84 - 55,24
        - 55,25 - 97,17

**ArcToolbox**

- 3D Analyst Tools
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- Multidimension Tools
- Network Analyst Tools
- Samples
- Schematics Tools
- Server Tools
- Spatial Analyst Tools
- Spatial Statistics Tools
- Tracking Analyst Tools



Layers

- coropletico.apartamentos
- 0,02 - 19,46
- 19,46 - 38,89
- 38,89 - 58,32
- 58,32 - 77,75

New Data Frame

- coropletico.apartamentos
- 0,02 - 3,77
- 3,77 - 10,88
- 10,88 - 26,84
- 26,84 - 55,25

Properties...

Turn All Layers On

Turn All Layers Off

Select All Layers

Expand All Layers

Collapse All Layers

Reference Scale

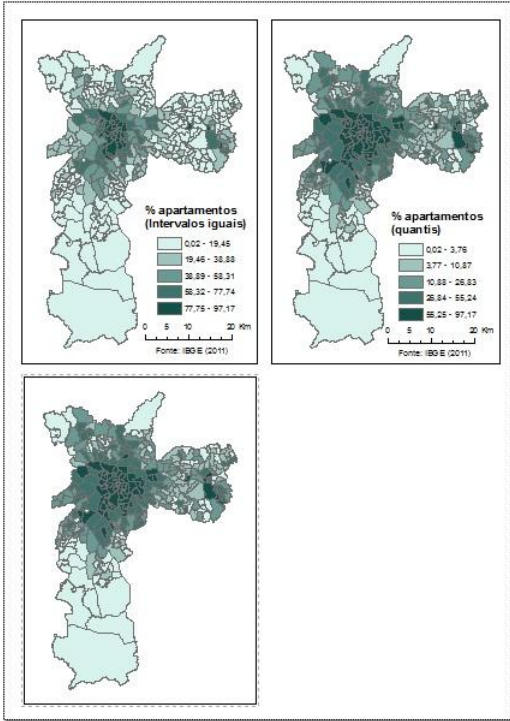
Advanced Drawing Options...

Labeling

Convert Features to Graphics...

Convert Graphics To Features...

Activate





Layers

- coropletico
  - %\_apart
    - 0,02 - 19,45
    - 19,46 - 38,88
    - 38,89 - 58,31
    - 58,32 - 77,74
    - 77,75 - 97,17
- New Data Frame
  - coropletico
    - %\_apart
      - 0,02 - 3,76
      - 3,77 - 10,87
      - 10,88 - 26,83
      - 26,84 - 55,24
      - 55,25 - 97,17
  - New Data Frame 2
    - coropletico
      - %\_apart
        - 0,02 - 3,76
        - 3,77 - 10,87
        - 10,88 - 26,83
        - 26,84 - 55,24
        - 55,25 - 97,17

Layer Properties

General Source Selection Display **Symbology** Fields Definition Query Labels Joins & Relates HTML Popup

Show:

Features

**Categories** 2

Quantities

  - Graduated colors
  - Graduated symbols
  - Proportional symbols
  - Dot density

Charts

Multiple Attributes

Draw quantities using color to show values. Import...

Fields

Value: %\_apart 3

Normalization: none

Classification

Quantile 4

Classes: 5

Classify...

Color Ramp:

Symbol	Range	Label
[Light Green]	0,02 - 3,76	0,02 - 3,76
[Light Green]	3,77 - 10,87	3,77 - 10,87
[Light Green]	10,88 - 26,83	10,88 - 26,83
[Light Green]	26,84 - 55,24	26,84 - 55,24
[Dark Green]	55,25 - 97,17	55,25 - 97,17

Show class ranges using feature values

Advanced

OK Cancel Aplicar

Classification

Classification Method: Quantile

Classes: Manual Equal Interval Defined Interval Quantile

Data Exclusion: Natural Breaks (Jenks)

Classification Statistics

Count:	310
Minimum:	0,02
Maximum:	97,17
Sum:	8709,21
Mean:	28,09
Median:	16,98
Standard Deviation:	27,86

Columns: 100 Show Std. Dev. Show Mean

Break Values %

3,76	%
10,87	%
26,83	%
55,24	%
97,17	%

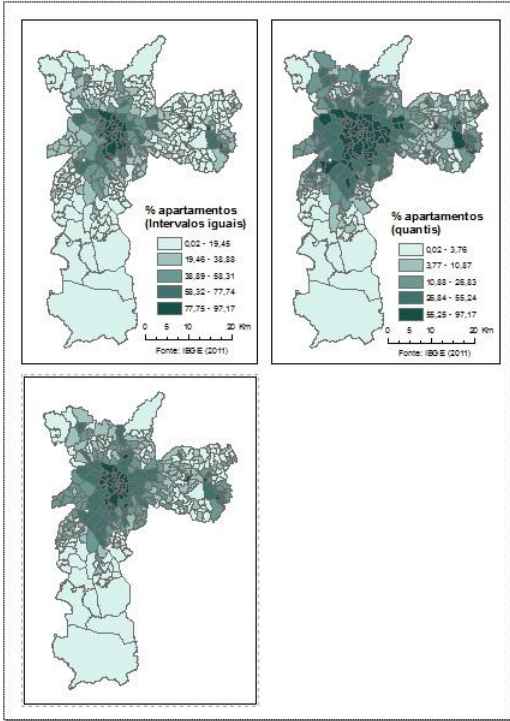
OK Cancel

Snap breaks to data values

- Text
- Neatline...
- Legend...
- North Arrow...
- Scale Bar...
- Scale Text...
- Picture...
- Object...

- Toolbox
- Analyst Tools
- Analysis Tools
- Cartography Tools
- Inversion Tools
- Data Interoperability Tools
- Data Management Tools
- Encoding Tools
- Geostatistical Analyst Tools
- Linear Referencing Tools
- Mobile Tools
- Multidimension Tools
- Network Analyst Tools
- Samples
- Schematics Tools
- Server Tools
- Spatial Analyst Tools
- Spatial Statistics Tools
- Tracking Analyst Tools

Inserir Legenda, escala e fonte

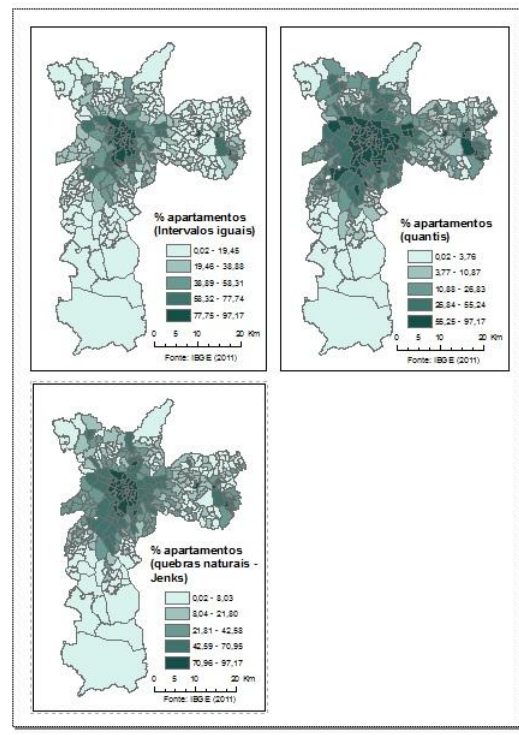


**Layers**

- coropletico
  - %\_apart
    - 0,02 - 19,45
    - 19,46 - 38,88
    - 38,89 - 58,31
    - 58,32 - 77,74
    - 77,75 - 97,17
- New Data Frame
  - coropletico
    - %\_apart
      - 0,02 - 3,76
      - 3,77 - 10,87
      - 10,88 - 26,83
      - 26,84 - 55,24
      - 55,25 - 97,17
  - New Data Frame 2
    - coropletico
      - %\_apart
        - 0,02 - 8,03
        - 8,04 - 21,80
        - 21,81 - 42,58
        - 42,59 - 70,95
        - 70,96 - 97,17

**ArcToolbox**

- 3D Analyst Tools
- Analysis Tools
- Cartography Tools
- Conversion Tools
- Data Interoperability Tools
- Data Management Tools
- Geocoding Tools
- Geostatistical Analyst Tools
- Linear Referencing Tools
- Mobile Tools
- Multidimension Tools
- Network Analyst Tools
- Samples
- Schematics Tools
- Server Tools
- Spatial Analyst Tools
- Spatial Statistics Tools
- Tracking Analyst Tools





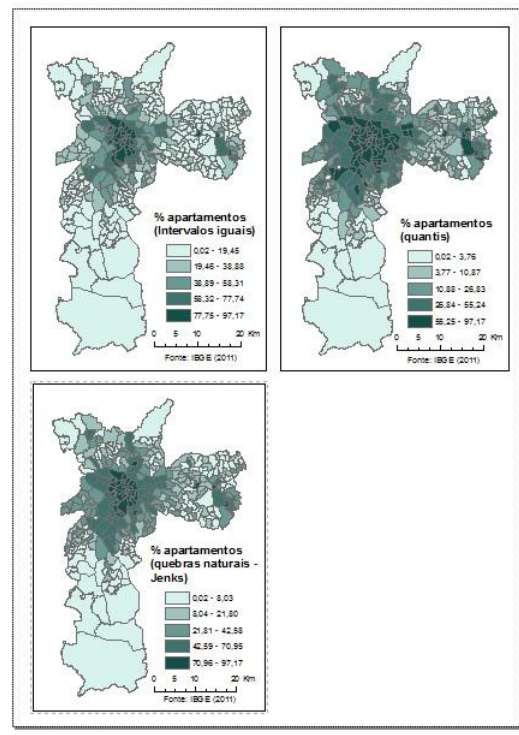
coropletico  
%\_apart  
0,02 - 19,45  
19,46 - 38,88  
38,89 - 58,31  
58,32 - 77,74  
77,75 - 97,17

New Data Frame  
coropletico  
%\_apart  
0,02 - 3,76  
3,77 - 10,87  
10,88 - 26,83  
26,84 - 55,24  
55,25 - 97,17

New Data Frame 2  
coropletico  
%\_apart  
0,02 - 8,03  
8,04 - 21,80  
21,81 - 42,58  
42,59 - 70,95  
70,96 - 97,17

Neatline...  
Legend...  
North Arrow...  
Scale Bar...  
Scale Text...  
Picture...  
Object...

Toolbox  
Analyst Tools  
Analysis Tools  
Cartography Tools  
Conversion Tools  
Data Interoperability Tools  
Data Management Tools  
Data Modeling Tools  
Data Reproduction Tools  
Data Storage Tools  
Geoprocessing Tools  
Linear Referencing Tools  
Mobile Tools  
Multidimension Tools  
Network Analyst Tools  
Samples  
Schematics Tools  
Server Tools  
Spatial Analyst Tools  
Spatial Statistics Tools  
Tracking Analyst Tools

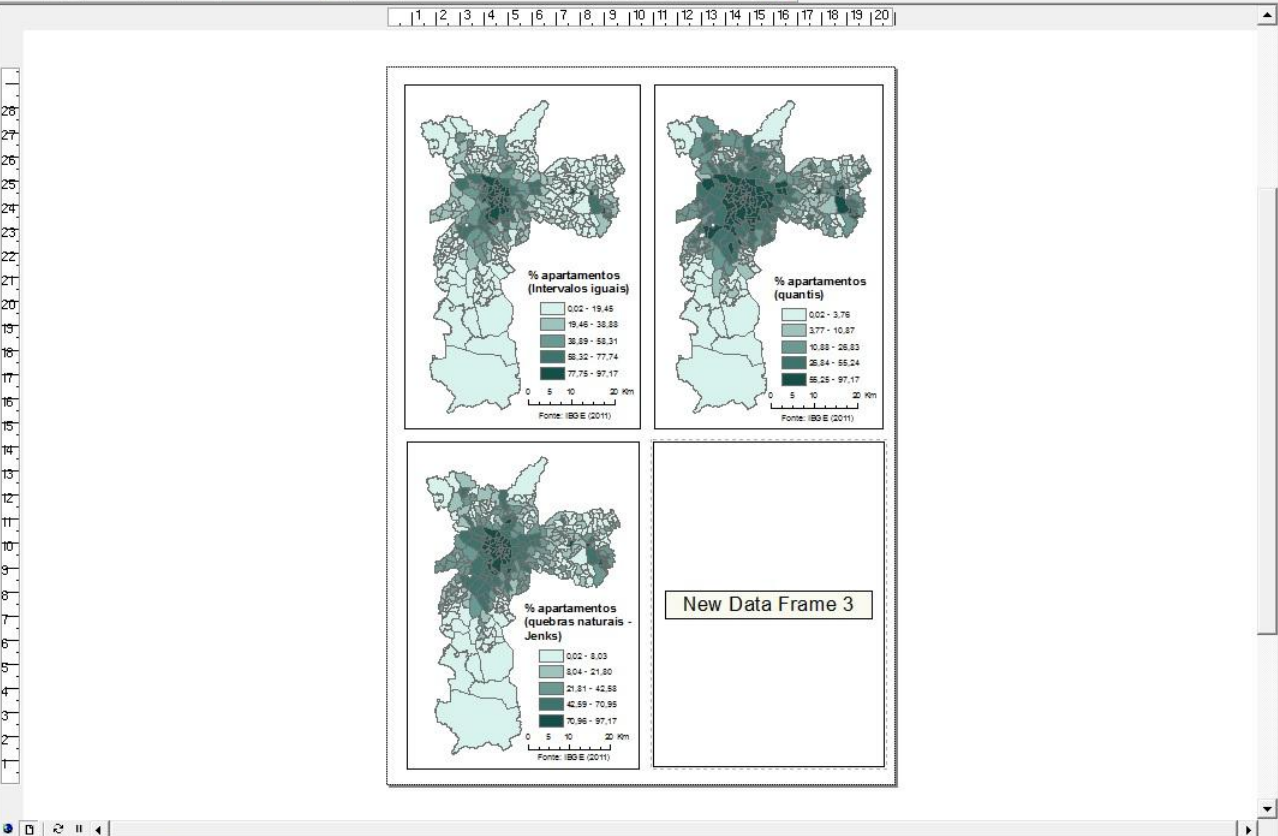


**Layers**

- coropletico
  - %\_apart
    - 0,02 - 19,45
    - 19,46 - 38,88
    - 38,89 - 58,31
    - 58,32 - 77,74
    - 77,75 - 97,17
- New Data Frame
  - coropletico
    - %\_apart
      - 0,02 - 3,76
      - 3,77 - 10,87
      - 10,88 - 26,83
      - 26,84 - 55,24
      - 55,25 - 97,17
- New Data Frame 2
  - coropletico
    - %\_apart
      - 0,02 - 8,03
      - 8,04 - 21,80
      - 21,81 - 42,58
      - 42,59 - 70,95
      - 70,96 - 97,17
- New Data Frame 3

**ArcToolbox**

- 3D Analyst Tools
- Analysis Tools
- Cartography Tools
- Conversion Tools
- Data Interoperability Tools
- Data Management Tools
- Geocoding Tools
- Geostatistical Analyst Tools
- Linear Referencing Tools
- Mobile Tools
- Multidimension Tools
- Network Analyst Tools
- Samples
- Schematics Tools
- Server Tools
- Spatial Analyst Tools
- Spatial Statistics Tools
- Tracking Analyst Tools

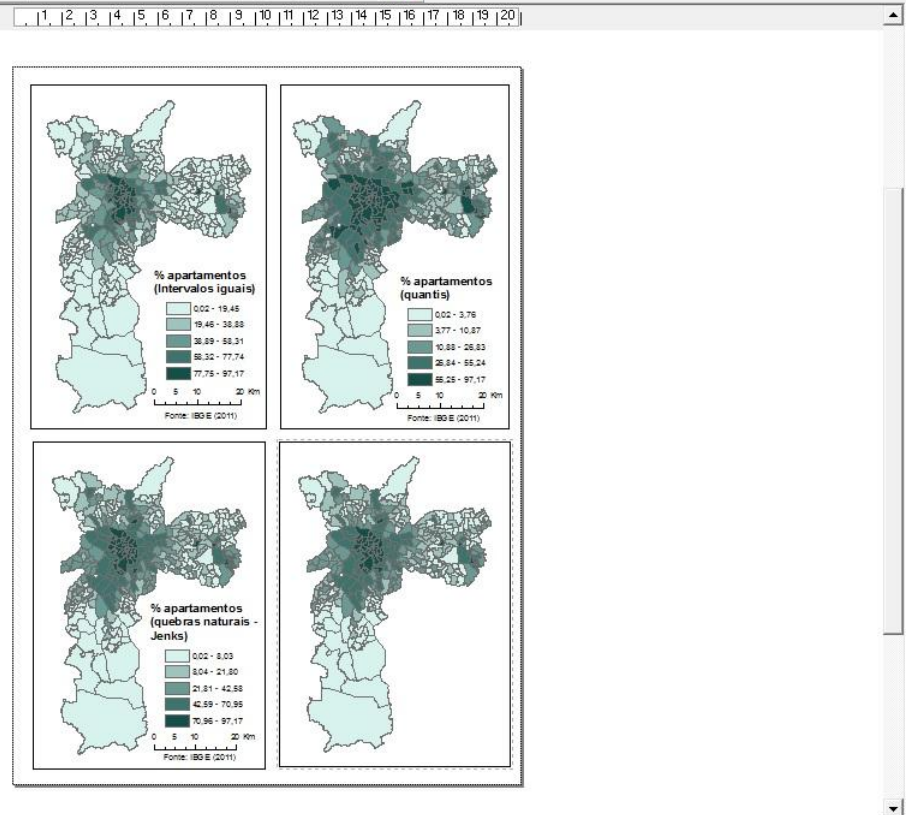


**Layers**

- coropletico
  - %\_apart
    - 0,02 - 19,45
    - 19,46 - 38,88
    - 38,89 - 58,31
    - 58,32 - 77,74
    - 77,75 - 97,17
- New Data Frame
  - coropletico
    - %\_apart
      - 0,02 - 3,76
      - 3,77 - 10,87
      - 10,88 - 26,83
      - 26,84 - 55,24
      - 55,25 - 97,17
- New Data Frame 2
  - coropletico
    - %\_apart
      - 0,02 - 8,03
      - 8,04 - 21,80
      - 21,81 - 42,58
      - 42,59 - 70,95
      - 70,96 - 97,17
- New Data Frame 3
  - coropletico
    - %\_apart
      - 0,02 - 8,03
      - 8,04 - 21,80
      - 21,81 - 42,58
      - 42,59 - 70,95
      - 70,96 - 97,17

**ArcToolbox**

- 3D Analyst Tools
- Analysis Tools
- Cartography Tools
- Conversion Tools
- Data Interoperability Tools
- Data Management Tools
- Geocoding Tools
- Geostatistical Analyst Tools
- Linear Referencing Tools
- Mobile Tools
- Multidimension Tools
- Network Analyst Tools
- Samples
- Schematics Tools
- Server Tools
- Spatial Analyst Tools
- Spatial Statistics Tools
- Tracking Analyst Tools





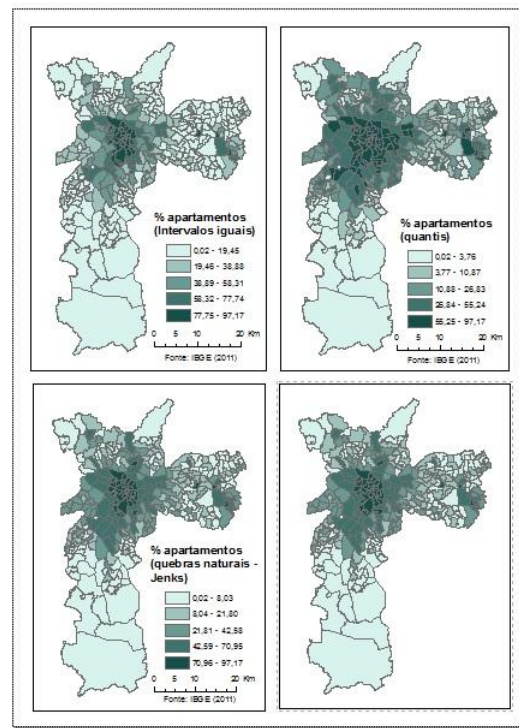
**Layers**

- coropletico
  - %\_apart
    - 0,02 - 19,45
    - 19,46
    - 38,86
    - 58,32
    - 77,75
- New Data F
  - coropletico
    - %\_apart
      - 0,02
      - 3,77
      - 10,88
      - 26,84
      - 55,25
- New Data F
  - coropletico
    - %\_apart
      - 0,02
      - 8,04
      - 21,81
      - 42,59
      - 70,96
- New Data F
  - coropletico
    - %\_apart
      - 0,02 - 8,03
      - 8,04 - 21,80
      - 21,81 - 42,58
      - 42,59 - 70,95
      - 70,96 - 97,17

**ArcToolbox**

- 3D Analyst Tools
- Analysis Tools
- Cartography Tools

**Properties...**



Layers

- coropletico
  - %\_apart
    - 0,02 - 19,45
    - 19,46 - 38,88
    - 38,89 - 58,31
    - 58,32 - 77,74
    - 77,75 - 97,17
- New Data Frame
  - coropletico
    - %\_apart
      - 0,02 - 3,76
      - 3,77 - 10,87
      - 10,88 - 26,83
      - 26,84 - 55,24
      - 55,25 - 97,17
  - New Data Frame 2
    - coropletico
      - %\_apart
        - 0,02 - 8,03
        - 8,04 - 21,80
        - 21,81 - 42,58
        - 42,59 - 70,95
        - 70,96 - 97,17
    - New Data Frame 3
      - coropletico
        - %\_apart
          - 0,02 - 8,03
          - 8,04 - 21,80
          - 21,81 - 42,58
          - 42,59 - 70,95
          - 70,96 - 97,17

Layer Properties

General | Source | Selection | Display | **Symbology** | Fields | Definition Query | Labels | Joins & Relates | HTML Popup

Show:

**Categories** 2

- Quantities 1
- Graduated symbols
- Proportional symbols
- Dot density

**Charts**

Multiple Attributes

Draw quantities using color to show values. Import...

Fields: Value: %\_apart 3 Normalization: none

Classification: Natural Breaks (Jenks) 4

Classes: 5

Classify... 4

Color Ramp:

Symbol	Range	Label
[Light Green]	0,02 - 8,03	0,02 - 8,03
[Light Green]	8,04 - 21,80	8,04 - 21,80
[Light Green]	21,81 - 42,58	21,81 - 42,58
[Light Green]	42,59 - 70,95	42,59 - 70,95
[Dark Green]	70,96 - 97,17	70,96 - 97,17

Show class ranges using feature values

Advanced

OK 7 Cancel Aplicar

Classification

Classification Method: Natural Breaks (Jenks) 5

Classes: Manual, Equal Interval, Defined Interval, Quantile, Natural Breaks (Jenks), **Geometrical Interval**

Data Exclusion: Standard Deviation

Columns: 100 Show Std. Dev. Show Mean

Classification Statistics

Count:	310
Minimum:	0,02
Maximum:	97,17
Sum:	8709,21
Mean:	28,09
Median:	16,98
Standard Deviation:	27,86

Break Values %

8,03	%
21,80	%
42,58	%
70,95	%
97,17	%

OK 6 Cancel

**Layers**

- coropletico
  - %\_apart
    - 0,02 - 19,45
    - 19,46 - 38,88
    - 38,89 - 58,31
    - 58,32 - 77,74
    - 77,75 - 97,17
- New Data Frame
  - coropletico
    - %\_apart
      - 0,02 - 3,76
      - 3,77 - 10,87
      - 10,88 - 26,83
      - 26,84 - 55,24
      - 55,25 - 97,17
  - New Data Frame 2
    - coropletico
      - %\_apart
        - 0,02 - 8,03
        - 8,04 - 21,80
        - 21,81 - 42,58
        - 42,59 - 70,95
        - 70,96 - 97,17
    - New Data Frame 3
      - coropletico
        - %\_apart
          - 0,02 - 3,84
          - 3,85 - 11,02
          - 11,03 - 24,48
          - 24,49 - 49,74
          - 49,75 - 97,17

**Toolbox**

    - Linear Referencing Tools
    - Mobile Tools
    - Multidimension Tools
    - Network Analyst Tools
    - Samples
    - Schematics Tools
    - Server Tools
    - Spatial Analyst Tools
    - Spatial Statistics Tools
    - Tracking Analyst Tools

**Insert > Legend...**

**Map 1: % apartamentos (Intervalos iguais)**

0,02 - 19,45
19,46 - 38,88
38,89 - 58,31
58,32 - 77,74
77,75 - 97,17

Fonte: IBGE (2011)

**Map 2: % apartamentos (quantis)**

0,02 - 3,76
3,77 - 10,87
10,88 - 26,83
26,84 - 55,24
55,25 - 97,17

Fonte: IBGE (2011)

**Map 3: % apartamentos (quebras naturais - Jenks)**

0,02 - 8,03
8,04 - 21,80
21,81 - 42,58
42,59 - 70,95
70,96 - 97,17

Fonte: IBGE (2011)

Inserir legenda, escala e fonte



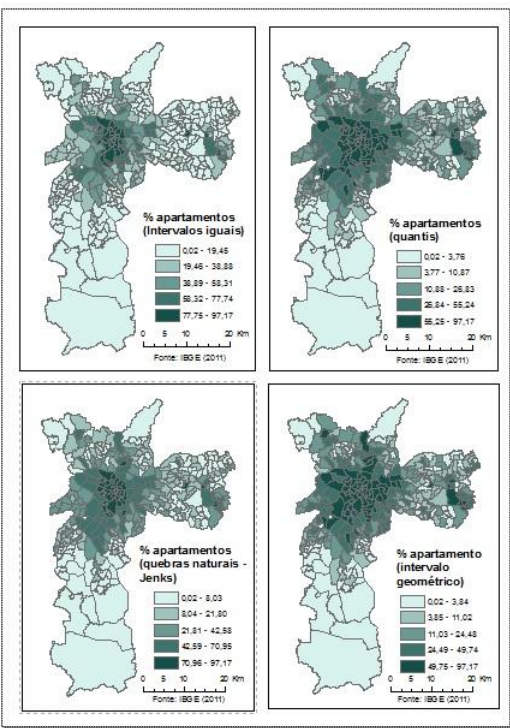
**Layers**

- coropletico
  - %\_apart
    - 0,02 - 19,45
    - 19,46 - 38,88
    - 38,89 - 58,31
    - 58,32 - 77,74
    - 77,75 - 97,17
- New Data Frame
  - coropletico
    - %\_apart
      - 0,02 - 3,76
      - 3,77 - 10,87
      - 10,88 - 26,83
      - 26,84 - 55,24
      - 55,25 - 97,17
- New Data Frame 2
  - coropletico
    - %\_apart
      - 0,02 - 8,03
      - 8,04 - 21,80
      - 21,81 - 42,58
      - 42,59 - 70,95
      - 70,96 - 97,17
- New Data Frame 3
  - coropletico
    - %\_apart
      - 0,02 - 3,84
      - 3,85 - 11,02
      - 11,03 - 24,48
      - 24,49 - 49,74
      - 49,75 - 97,17

**ArcToolbox**

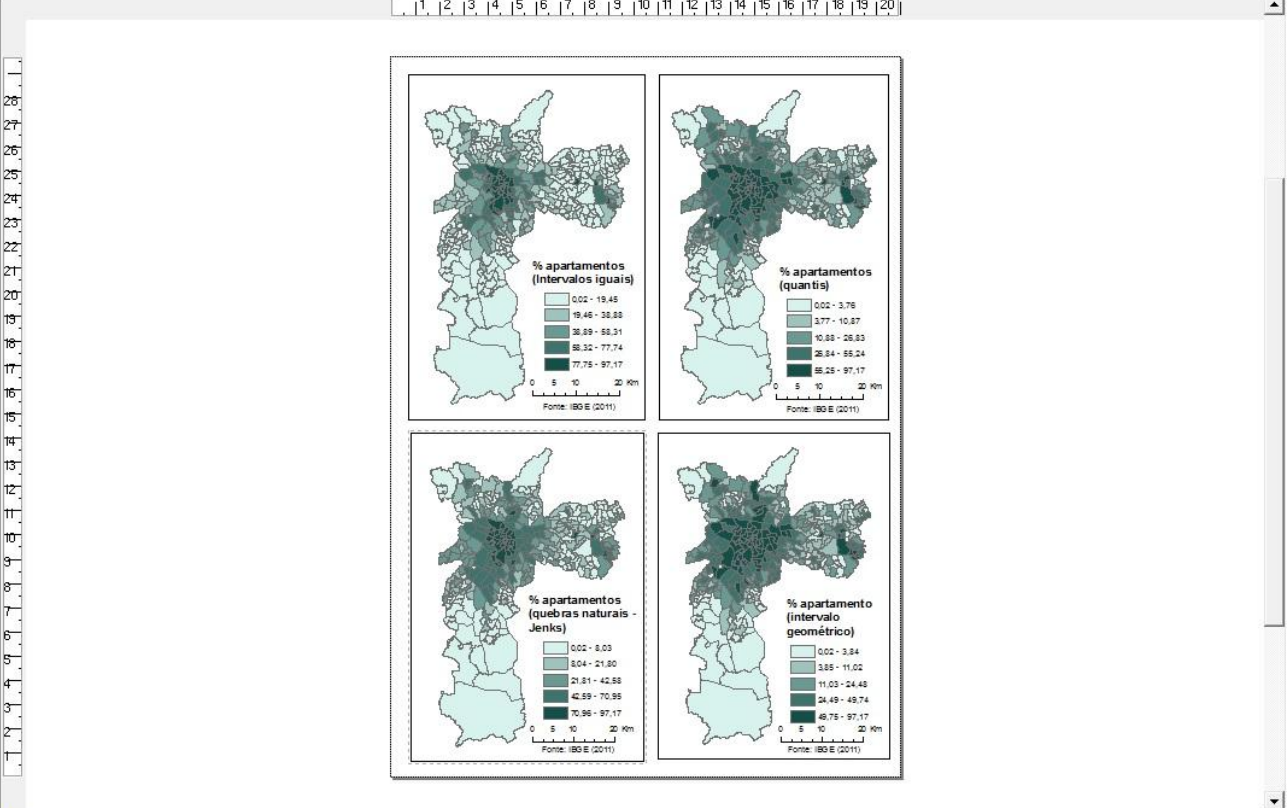
- 3D Analyst Tools
- Analysis Tools
- Cartography Tools
- Conversion Tools
- Data Interoperability Tools
- Data Management Tools
- Geocoding Tools
- Geostatistical Analyst Tools
- Linear Referencing Tools
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Map navigation controls including a coordinate grid (1-20 on x-axis, 1-28 on y-axis) and a vertical scale bar on the left side of the map area.



- Neatline...
- Legend...
- North Arrow...**
- Scale Bar...
- Scale Text...
- Picture...
- Object...

- Linear Referencing Tools
- Mobile Tools
- Multidimension Tools
- Network Analyst Tools
- Samples
- Schematics Tools
- Server Tools
- Spatial Analyst Tools
- Spatial Statistics Tools
- Tracking Analyst Tools





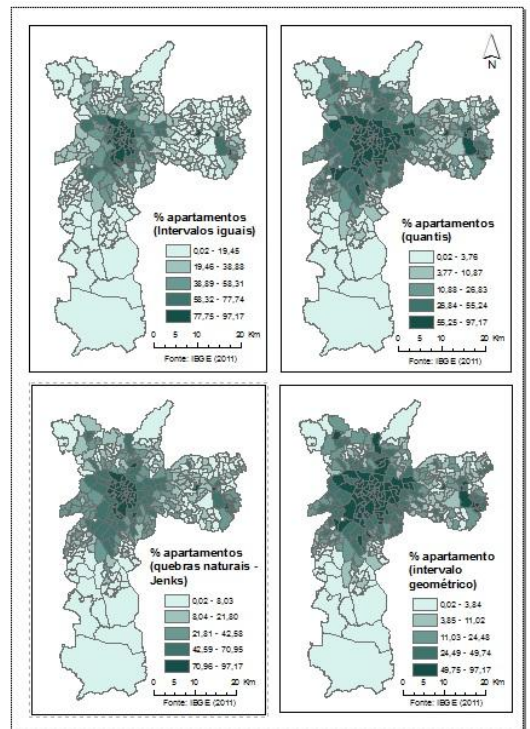


**Layers**

- coropletico
  - %\_apart
    - 0,02 - 19,45
    - 19,46 - 38,88
    - 38,89 - 58,31
    - 58,32 - 77,74
    - 77,75 - 97,17
- New Data Frame
  - coropletico
    - %\_apart
      - 0,02 - 3,76
      - 3,77 - 10,87
      - 10,88 - 26,83
      - 26,84 - 55,24
      - 55,25 - 97,17
- New Data Frame 2
  - coropletico
    - %\_apart
      - 0,02 - 8,03
      - 8,04 - 21,80
      - 21,81 - 42,58
      - 42,59 - 70,95
      - 70,96 - 97,17
- New Data Frame 3
  - coropletico
    - %\_apart
      - 0,02 - 3,84
      - 3,85 - 11,02
      - 11,03 - 24,48
      - 24,49 - 49,74
      - 49,75 - 97,17

**ArcToolbox**

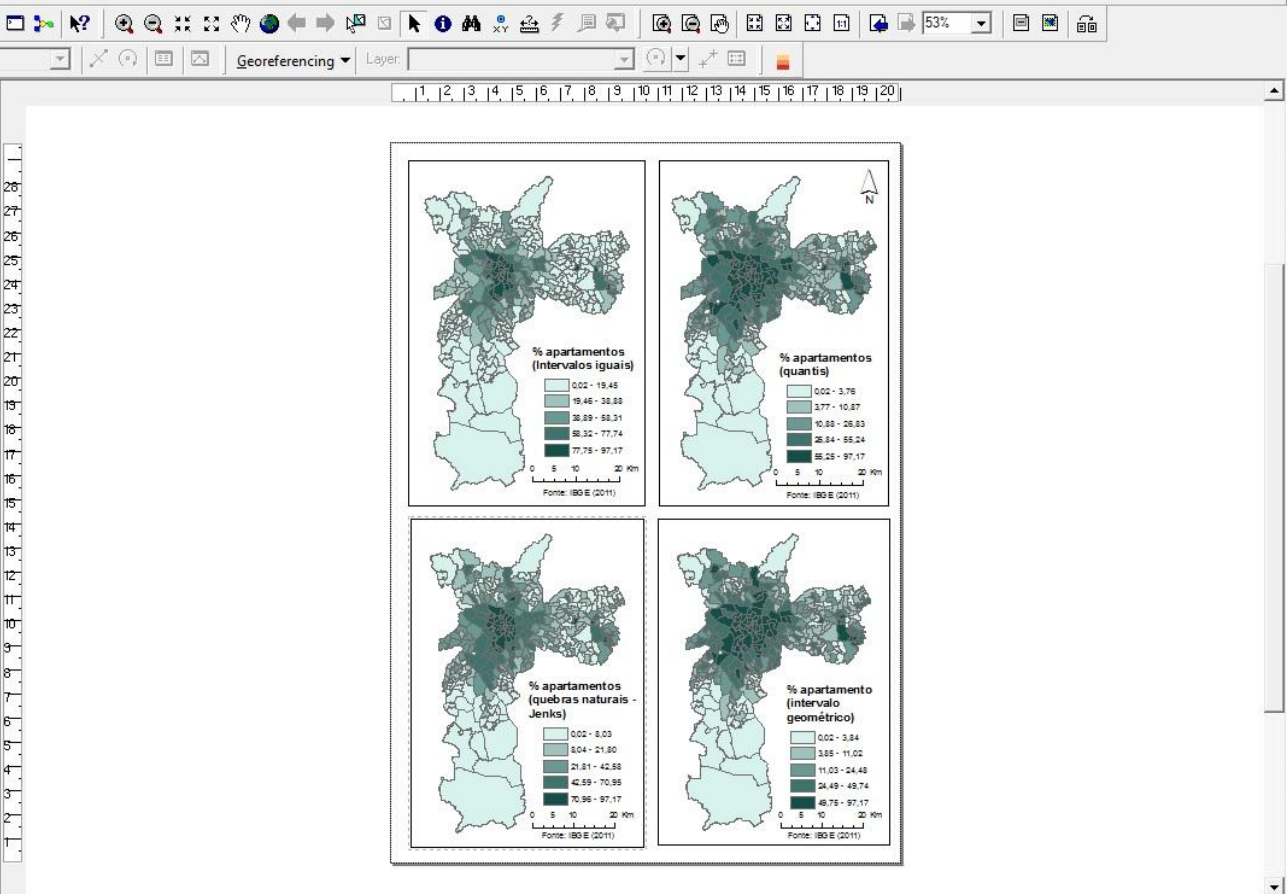
- 3D Analyst Tools
- Analysis Tools
- Cartography Tools
- Conversion Tools
- Data Interoperability Tools
- Data Management Tools
- Geocoding Tools
- Geostatistical Analyst Tools
- Linear Referencing Tools
- Mobile Tools
- Multidimension Tools
- Network Analyst Tools
- Samples
- Schematics Tools
- Server Tools
- Spatial Analyst Tools
- Spatial Statistics Tools
- Tracking Analyst Tools



- New... Ctrl+N
- Open... Ctrl+O
- Save Ctrl+S
- Save As...
- Save A Copy...
- Add Data...
- Add Data From ArcGIS Online...
- Page and Print Setup...
- Print Preview...
- Print...
- Document Properties...
- Import from ArcView project...
- Export Map...**
- 1 C:\Users\Willi...\coropletico.mxd
- 2 C:\Us...\figuras\_geometrica.mxd
- 3 C:\User...\Mapas\_2000\_2005.mxd
- 4 C:\...\Bairros\_Rondonopolis.mxd
- 5 C:\...\Bairros\_Rondonopolis.mxd
- 6 C:\User...\Mapas\_2006\_2010.mxd
- Exit Alt+F4

feature Target: Georeferencing Layer:

- ArcToolbox
  - 3D Analyst Tools
  - Analysis Tools
  - Cartography Tools
  - Conversion Tools
  - Data Interoperability Tools
  - Data Management Tools
  - Geocoding Tools
  - Geostatistical Analyst Tools
  - Linear Referencing Tools
  - Mobile Tools
  - Multidimension Tools
  - Network Analyst Tools
  - Samples
  - Schematics Tools
  - Server Tools
  - Spatial Analyst Tools
  - Spatial Statistics Tools
  - Tracking Analyst Tools
- New Data Frame 3
  - coropletico
    - %\_apart
      - 0,02 - 3,84
      - 3,85 - 11,02
      - 11,03 - 24,48
      - 24,49 - 49,74
      - 49,75 - 97,17



**Layers**

- coropletico
  - %\_apart
    - 0,02 - 19,45
    - 19,46 - 38,88
    - 38,89 - 58,31
    - 58,32 - 77,74
    - 77,75 - 97,17
- New Data Frame
  - coropletico
    - %\_apart
      - 0,02 - 3,76
      - 3,77 - 10,87
      - 10,88 - 26,83
      - 26,84 - 55,24
      - 55,25 - 97,17
  - New Data Frame 2
    - coropletico
      - %\_apart
        - 0,02 - 8,03
        - 8,04 - 21,80
        - 21,81 - 42,58
        - 42,59 - 70,95
        - 70,96 - 97,17
    - New Data Frame 3
      - coropletico
        - %\_apart
          - 0,02 - 3,84
          - 3,85 - 11,02
          - 11,03 - 24,48
          - 24,49 - 49,74
          - 49,75 - 97,17

**ArcToolbox**

- 3D Analyst Tools
- Analysis Tools
- Cartography Tools
- Conversion Tools
- Data Interoperability Tools
- Data Management Tools
- Geocoding Tools
- Geostatistical Analyst Tools
- Linear Referencing Tools
- Mobile Tools
- Multidimension Tools
- Network Analyst Tools
- Samples
- Schematics Tools
- Server Tools
- Spatial Analyst Tools
- Spatial Statistics Tools
- Tracking Analyst Tools

**Export Map**

Salvar em: Tutoriais\_Cart\_Tematica

- 30.jpg
- 31.jpg
- 32.jpg
- 33.jpg
- 34.jpg
- 35.jpg
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- 57.jpg

Nome: mapa Tipo: JPEG (\*.jpg) Salvar Cancelar

**Options**

General | Format

Resolution: 300 dpi  
Width: 2481 pixels  
Height: 3509 pixels

Write World File

Clip Output to Graphics Extent

