

1516 Peonies and Cerisiers (small)



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Instructions

Thank you for choosing Golden Kite products!
We hope you will have lots of fun with this cross-stitch pattern!

Fabric

Press the fabric with an iron if needed. A good thing to prevent the fabric from fraying is to machine zigzag the edges.

On large patterns, it is easiest to start from the upper left corner of the design. Make sure you have the proper margins before starting and that the fabric piece is of the correct size. The best way to verify this is to count all stitch positions on the fabric from the upper left corner downwards and to the right to make sure there is enough space for the design.

Some prefer to start in the center of the design instead. To locate the center of the fabric, fold the fabric in half both vertically and horizontally. The center is located where these two folds meet.

Stitches

Each length of DMC tread consists of six strands.

Use two of these strands for all stitches.

Note that some colors may be mixes (or blends) between two different pure colors. In that case take one strand of the two colors each and thread the two strands into the needle at the same time for stitching.

All stitches are full cross-stitches. No half-stitching and no back-stitching is necessary in this pattern.

All cross-stitches will be worked into the holes in the fabric from left to right. Always use the larger holes in the fabric for the stitches. Adjacent stitches should meet in the same hole. Make sure all stitches cross in the same direction.

Please be careful when washing the finished embroidery! The cotton thread may bleed when washed. Only hand wash it in lukewarm water. Remove excess water by roll it in a towel and lay it flat to air dry. Natural fabrics may shrink slightly when washed. We do not recommend washing the embroidery if not absolutely necessary and we take no responsibility for any damage that may occur.

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Peonies and Cerisiers (small)

Stitch Count	
Horizontal:	299
Vertical:	366

Recommended Fabric Color
Antique White

This table tells the size of the pattern (without any margins) and the size of the fabric required to stitch the pattern (including recommended margins). 3 inch margins have been added on each side in the 'Including Margins' row.

The sizes are given for 14, 16 and 18 stitches per inch fabrics.

Make sure to use the 'Including Margins' row when cutting the piece of fabric to be used. Also make sure that 3 inch margins are enough for your stitching technique and add more margin areas if necessary.

	14				16				18			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	54	21.21	67	26.03	48	18.56	58	22.78	42	16.5	52	20.25
Including Margins:	70	28	83	33	64	25	74	29	58	23	68	27
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	75	29.69	93	36.44	63	24.74	78	30.36	31	12.37	39	15.18
Including Margins:	91	36	109	43	79	31	94	37	47	19	55	22
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	30	11.87	37	14.57	29	11.42	36	14.01	28	10.99	34	13.49
Including Margins:	46	18	53	21	45	18	52	21	44	17	50	20
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	27	10.6	33	13.01	25	9.89	31	12.14	23	9.27	29	11.38
Including Margins:	43	17	49	20	41	16	47	19	39	16	45	18

Solid Color Stitches. Use two strands of the specified color for these stitches.

Symbol	DMC	Name
	224	Shell Pink-VY LT
	300	Mahogany-VY DK
	407	Desert Sand-DK
	413	Pewter Gray-DK
	437	Tan-LT
	451	Shell Gray-DK
	452	Shell Gray-MD
	522	Fern Green
	524	Fern Green-VY LT
	543	Beige Brown-UL VY LT
	580	Moss Green-DK
	613	Drab Brown-VY LT
	632	Desert Sand-UL VY DK
	644	Beige Gray-MD
	645	Beaver Gray-VY DK
	680	Old Gold-DK
	712	Cream
	732	Olive Green
	733	Olive Green-MD
	734	Olive Green-LT
	738	Tan-VY LT
	739	Tan-UL VY LT
	746	Off White
	754	Peach-LT
	758	Terra Cotta-VY LT
	778	Antique Mauve-VY LT
	801	Coffee Brown-DK
	816	Garnet
	819	Baby Pink-LT
	822	Beige Gray-LT
	832	Golden Olive
	833	Golden Olive-LT
	834	Golden Olive-VY LT
	844	Beaver Brown-UL DK
	921	Copper
	928	Gray Green-VY LT
	935	Avocado Green-DK
	937	Avocado Green-MD
	938	Coffee Brown-UL DK
	948	Peach-VY LT
	975	Golden Brown-DK
	3011	Khaki Green-DK
	3012	Khaki Green-MD
	3013	Khaki Green-LT
	3022	Brown Gray-MD
	3023	Brown Gray-LT
	3024	Brown Gray-VY LT
	3032	Mocha Brown-MD
	3045	Yellow Beige-DK
	3052	Green Gray-MD
	3053	Green Gray
	3346	Hunter Green
	3350	Dusty Rose-UL DK

Φ	3362	Pine Green-DK
⧄	3363	Pine Green-MD
⧄	3364	Pine Green
▷	3713	Salmon-VY LT
⦶	3721	Shell Pink-DK
:	3753	Antique Blue-UL VY LT
^	3770	Tawny-VY LT
⦶	3772	Desert Sand-VY DK
⦶	3778	Terra Cotta-LT
⦶	3779	Terra Cotta-UL VY LT
↓	3781	Mocha Brown-DK
⦶	3782	Mocha Brown-LT
■	3787	Brown Gray-DK
⦶	3790	Beige Gray-UL DK
⦶	3799	Pewter Gray-VY DK
?	3820	Straw-DK
↑	3823	Yellow-UL Pale
⦶	3854	Autumn Gold-MD
♡	3855	Autumn Gold-LT
✱	3860	Cocoa
⦶	3861	Cocoa-LT
u	3865	Winter White
<	3866	Mocha Brown-UL VY LT
±	Ecru	Ecru

Blend Stitches. Use one strand of each of DMC1 and DMC2 for these stitches.

Symbol	DMC1	Name1	DMC2	Name2
↓	221	Shell Pink-VY DK	300	Mahogany-VY DK
✱	223	Shell Pink-LT	451	Shell Gray-DK
↖	223	Shell Pink-LT	3032	Mocha Brown-MD
⦶	223	Shell Pink-LT	3328	Salmon-DK
⦶	223	Shell Pink-LT	3726	Antique Mauve-DK
	224	Shell Pink-VY LT	3733	Dusty Rose
⦶	300	Mahogany-VY DK	919	Red Copper
✱	317	Pewter Gray	502	Blue Green
⦶	355	Terra Cotta-DK	451	Shell Gray-DK
⦶	355	Terra Cotta-DK	3722	Shell Pink-MD
4	369	Pistachio Green-VY LT	524	Fern Green-VY LT
6	369	Pistachio Green-VY LT	644	Beige Gray-MD
—	372	Mustard-LT	564	Jade-VY LT
▼	400	Mahogany-DK	976	Golden Brown-MD
∇	407	Desert Sand-DK	452	Shell Gray-MD
◇	407	Desert Sand-DK	760	Salmon
	407	Desert Sand-DK	3053	Green Gray
z	407	Desert Sand-DK	3687	Mauve
➔	413	Pewter Gray-DK	3799	Pewter Gray-VY DK
⦶	414	Steel Gray-DK	647	Beaver Gray-MD
⦶	414	Steel Gray-DK	3861	Cocoa-LT
↖	451	Shell Gray-DK	647	Beaver Gray-MD
↖	451	Shell Gray-DK	926	Gray Green-MD
⦶	451	Shell Gray-DK	3032	Mocha Brown-MD
✱	451	Shell Gray-DK	3041	Antique Violet-MD
★	451	Shell Gray-DK	3860	Cocoa

△	453	Shell Gray-LT	543	Beige Brown-UL VY LT
■	500	Blue Green-VY DK	938	Coffee Brown-UL DK
➤	502	Blue Green	503	Blue Green-MD
⌘	502	Blue Green	522	Fern Green
⌘	503	Blue Green-MD	522	Fern Green
↑	520	Fern Green-DK	935	Avocado Green-DK
←	520	Fern Green-DK	3021	Brown Gray-VY DK
▼	520	Fern Green-DK	3362	Pine Green-DK
🌀	520	Fern Green-DK	3799	Pewter Gray-VY DK
↘	522	Fern Green	3053	Green Gray
7	524	Fern Green-VY LT	564	Jade-VY LT
■	535	Ash Gray-VY LT	645	Beaver Gray-VY DK
)	543	Beige Brown-UL VY LT	ecru	Ecru
/	564	Jade-VY LT	3046	Yellow Beige-MD
➤	580	Moss Green-DK	732	Olive Green
🌀	580	Moss Green-DK	829	Golden Olive-VY DK
0	613	Drab Brown-VY LT	739	Tan-UL VY LT
e	613	Drab Brown-VY LT	758	Terra Cotta-VY LT
▶	632	Desert Sand-UL VY DK	3787	Brown Gray-DK
🌀	644	Beige Gray-MD	524	Fern Green-VY LT
⊙	645	Beaver Gray-VY DK	844	Beaver Brown-UL DK
⬇	645	Beaver Gray-VY DK	3052	Green Gray-MD
=	645	Beaver Gray-VY DK	3787	Brown Gray-DK
⋮	680	Old Gold-DK	3012	Khaki Green-MD
⋮	732	Olive Green	832	Golden Olive
○	733	Olive Green-MD	734	Olive Green-LT
✕	733	Olive Green-MD	832	Golden Olive
⊙	733	Olive Green-MD	834	Golden Olive-VY LT
\$	733	Olive Green-MD	3012	Khaki Green-MD
#	733	Olive Green-MD	3364	Pine Green
☆	738	Tan-VY LT	3013	Khaki Green-LT
↩	743	Yellow-MD	834	Golden Olive-VY LT
o	746	Off White	3823	Yellow-UL Pale
c	754	Peach-LT	352	Coral-LT
s	758	Terra Cotta-VY LT	3864	Mocha Beige-LT
☼	801	Coffee Brown-DK	830	Golden Olive-DK
♥	801	Coffee Brown-DK	938	Coffee Brown-UL DK
~	819	Baby Pink-LT	712	Cream
«	819	Baby Pink-LT	3865	Winter White
⬆	829	Golden Olive-VY DK	937	Avocado Green-MD
✕	829	Golden Olive-VY DK	938	Coffee Brown-UL DK
L	831	Golden Olive-MD	3012	Khaki Green-MD
≡	832	Golden Olive	3852	Straw-VY DK
≡	842	Beige Brown-VY LT	452	Shell Gray-MD
✱	844	Beaver Brown-UL DK	3362	Pine Green-DK
🌀	898	Coffee Brown-VY DK	300	Mahogany-VY DK
+	919	Red Copper	920	Copper-MD
+	919	Red Copper	975	Golden Brown-DK
◎	926	Gray Green-MD	928	Gray Green-VY LT
+	926	Gray Green-MD	3861	Cocoa-LT
⋮	935	Avocado Green-DK	937	Avocado Green-MD
●	935	Avocado Green-DK	938	Coffee Brown-UL DK
L	948	Peach-VY LT	3689	Mauve-LT
I	948	Peach-VY LT	3823	Yellow-UL Pale
○	989	Forest Green	3011	Khaki Green-DK
∩	989	Forest Green	3012	Khaki Green-MD
⌘	989	Forest Green	3052	Green Gray-MD
∩	3011	Khaki Green-DK	3012	Khaki Green-MD
♦	3011	Khaki Green-DK	3346	Hunter Green

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☺	3012	Khaki Green-MD	3045	Yellow Beige-DK
↑	3013	Khaki Green-LT	3053	Green Gray
☯	3021	Brown Gray-VY DK	935	Avocado Green-DK
✚	3021	Brown Gray-VY DK	3787	Brown Gray-DK
☯	3021	Brown Gray-VY DK	3860	Cocoa
✕	3023	Brown Gray-LT	3861	Cocoa-LT
♠	3032	Mocha Brown-MD	3052	Green Gray-MD
▲	3032	Mocha Brown-MD	3364	Pine Green
☯	3032	Mocha Brown-MD	3726	Antique Mauve-DK
✓	3046	Yellow Beige-MD	3782	Mocha Brown-LT
//	3052	Green Gray-MD	3726	Antique Mauve-DK
❖	3052	Green Gray-MD	3787	Brown Gray-DK
⚡	3052	Green Gray-MD	3790	Beige Gray-UL DK
○	3072	Beaver Gray-VY LT	369	Pistachio Green-VY LT
▲	3328	Salmon-DK	3350	Dusty Rose-UL DK
☙	3346	Hunter Green	3362	Pine Green-DK
△	3348	Yellow Green-LT	3364	Pine Green
☙	3350	Dusty Rose-UL DK	3722	Shell Pink-MD
▲	3362	Pine Green-DK	3052	Green Gray-MD
☙	3362	Pine Green-DK	3787	Brown Gray-DK
♣	3362	Pine Green-DK	3799	Pewter Gray-VY DK
☙	3364	Pine Green	834	Golden Olive-VY LT
☙	3721	Shell Pink-DK	3685	Mauve-DK
☙	3721	Shell Pink-DK	3740	Antique Violet-DK
☙	3721	Shell Pink-DK	3778	Terra Cotta-LT
•	3770	Tawny-VY LT	3855	Autumn Gold-LT
☯	3787	Brown Gray-DK	3860	Cocoa
●	3799	Pewter Gray-VY DK	935	Avocado Green-DK
☙	3820	Straw-DK	435	Brown-VY LT
♠	3820	Straw-DK	3852	Straw-VY DK
□	3823	Yellow-UL Pale	772	Yellow Green-VY LT
☙	3852	Straw-VY DK	3853	Autumn Gold-DK
(3855	Autumn Gold-LT	746	Off White
♠	3855	Autumn Gold-LT	3856	Mahogany-UL VY LT
✕	3861	Cocoa-LT	223	Shell Pink-LT
∞	3866	Mocha Brown-UL VY LT	3865	Winter White

This table specifies how much thread of each color is required to stitch this pattern. It is good to know that one complete DMC skein contains 313 inches (795 cm) thread.

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		14		16		18	
221	Shell Pink-VY DK	20	7	19	7	17	6
223	Shell Pink-LT	196	77	187	73	168	66
224	Shell Pink-VY LT	72	28	69	27	62	24
300	Mahogany-VY DK	150	59	143	56	128	50
317	Pewter Gray	37	14	35	13	31	12
352	Coral-LT	3	1	3	1	2	1
355	Terra Cotta-DK	44	17	42	16	37	14
369	Pistachio Green-VY LT	97	38	93	36	83	32
372	Mustard-LT	162	63	154	60	138	54
400	Mahogany-DK	7	2	6	2	6	2
407	Desert Sand-DK	388	152	369	145	332	130
413	Pewter Gray-DK	101	39	96	37	87	34
414	Steel Gray-DK	80	31	77	30	69	27
435	Brown-VY LT	17	6	16	6	14	5
437	Tan-LT	79	31	75	29	67	26
451	Shell Gray-DK	337	132	321	126	289	113
452	Shell Gray-MD	257	101	245	96	221	87
453	Shell Gray-LT	91	35	86	33	78	30
500	Blue Green-VY DK	126	49	120	47	108	42
502	Blue Green	87	34	83	32	75	29
503	Blue Green-MD	42	16	40	15	36	14
520	Fern Green-DK	938	369	893	351	804	316
522	Fern Green	324	127	309	121	278	109
524	Fern Green-VY LT	595	234	566	222	510	200
535	Ash Gray-VY LT	78	30	74	29	67	26
543	Beige Brown-UL VY LT	260	102	248	97	223	87
564	Jade-VY LT	361	142	344	135	309	121
580	Moss Green-DK	174	68	166	65	149	58
613	Drab Brown-VY LT	324	127	308	121	278	109
632	Desert Sand-UL VY DK	78	30	74	29	67	26
644	Beige Gray-MD	372	146	355	139	319	125
645	Beaver Gray-VY DK	493	194	469	184	422	166
647	Beaver Gray-MD	72	28	69	27	62	24
680	Old Gold-DK	55	21	52	20	47	18
712	Cream	83	32	79	31	71	27
732	Olive Green	212	83	202	79	182	71
733	Olive Green-MD	874	344	832	327	749	294
734	Olive Green-LT	99	38	94	37	85	33
738	Tan-VY LT	269	105	256	100	231	90
739	Tan-UL VY LT	343	135	327	128	294	115
743	Yellow-MD	10	3	10	3	9	3
746	Off White	325	127	309	121	278	109
754	Peach-LT	61	24	58	22	52	20
758	Terra Cotta-VY LT	124	48	118	46	106	41
760	Salmon	32	12	31	12	28	11
772	Yellow Green-VY LT	37	14	35	13	32	12
778	Antique Mauve-VY LT	108	42	103	40	93	36
801	Coffee Brown-DK	180	70	171	67	154	60
816	Garnet	8	3	8	3	7	2
819	Baby Pink-LT	141	55	135	53	121	47
822	Beige Gray-LT	128	50	122	48	110	43
829	Golden Olive-VY DK	150	59	143	56	128	50
830	Golden Olive-DK	44	17	42	16	38	14

831	Golden Olive-MD	135	53	128	50	115	45
832	Golden Olive	164	64	156	61	141	55
833	Golden Olive-LT	39	15	37	14	33	12
834	Golden Olive-VY LT	137	53	130	51	117	46
842	Beige Brown-VY LT	97	38	93	36	83	32
844	Beaver Brown-UL DK	512	201	488	192	439	172
898	Coffee Brown-VY DK	36	14	34	13	31	12
919	Red Copper	48	18	45	17	41	16
920	Copper-MD	9	3	9	3	8	3
921	Copper	6	2	5	1	5	1
926	Gray Green-MD	90	35	86	33	77	30
928	Gray Green-VY LT	56	22	54	21	48	18
935	Avocado Green-DK	1456	573	1387	546	1248	491
937	Avocado Green-MD	291	114	277	109	249	98
938	Coffee Brown-UL DK	645	253	615	242	553	217
948	Peach-VY LT	180	70	171	67	154	60
975	Golden Brown-DK	45	17	43	16	39	15
976	Golden Brown-MD	7	2	6	2	6	2
989	Forest Green	791	311	753	296	678	266
3011	Khaki Green-DK	969	381	923	363	831	327
3012	Khaki Green-MD	1628	640	1551	610	1396	549
3013	Khaki Green-LT	372	146	354	139	319	125
3021	Brown Gray-VY DK	868	341	827	325	744	292
3022	Brown Gray-MD	121	47	116	45	104	40
3023	Brown Gray-LT	278	109	265	104	239	94
3024	Brown Gray-VY LT	84	33	80	31	72	28
3032	Mocha Brown-MD	691	272	658	259	592	233
3041	Antique Violet-MD	23	9	22	8	20	7
3045	Yellow Beige-DK	213	83	203	79	182	71
3046	Yellow Beige-MD	291	114	277	109	249	98
3052	Green Gray-MD	1346	529	1282	504	1154	454
3053	Green Gray	746	293	710	279	639	251
3072	Beaver Gray-VY LT	15	5	14	5	13	5
3328	Salmon-DK	47	18	45	17	40	15
3346	Hunter Green	560	220	533	209	480	188
3348	Yellow Green-LT	31	12	30	11	27	10
3350	Dusty Rose-UL DK	46	18	43	16	39	15
3362	Pine Green-DK	1849	727	1761	693	1585	624
3363	Pine Green-MD	215	84	204	80	184	72
3364	Pine Green	679	267	647	254	582	229
3685	Mauve-DK	6	2	6	2	5	1
3687	Mauve	68	26	64	25	58	22
3689	Mauve-LT	40	15	38	14	35	13
3713	Salmon-VY LT	16	6	16	6	14	5
3721	Shell Pink-DK	72	28	69	27	62	24
3722	Shell Pink-MD	44	17	42	16	38	14
3726	Antique Mauve-DK	128	50	122	48	110	43
3733	Dusty Rose	27	10	25	9	23	9
3740	Antique Violet-DK	10	3	9	3	8	3
3753	Antique Blue-UL VY LT	6	2	6	2	5	1
3770	Tawny-VY LT	147	57	140	55	126	49
3772	Desert Sand-VY DK	90	35	86	33	77	30
3778	Terra Cotta-LT	55	21	53	20	47	18
3779	Terra Cotta-UL VY LT	28	11	27	10	24	9
3781	Mocha Brown-DK	116	45	110	43	99	38
3782	Mocha Brown-LT	406	159	387	152	348	137
3787	Brown Gray-DK	761	299	725	285	653	257
3790	Beige Gray-UL DK	196	77	187	73	168	66
3799	Pewter Gray-VY DK	1389	546	1323	520	1190	468

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3820	Straw-DK	45	17	43	16	39	15
3823	Yellow-UL Pale	255	100	243	95	219	86
3852	Straw-VY DK	19	7	18	7	17	6
3853	Autumn Gold-DK	3	1	3	1	3	1
3854	Autumn Gold-MD	12	4	12	4	11	4
3855	Autumn Gold-LT	115	45	110	43	99	38
3856	Mahogany-UL VY LT	32	12	31	12	27	10
3860	Cocoa	297	116	283	111	254	100
3861	Cocoa-LT	278	109	265	104	238	93
3864	Mocha Beige-LT	36	14	34	13	30	11
3865	Winter White	193	75	183	72	165	64
3866	Mocha Brown-UL VY LT	201	79	192	75	172	67
ecru	Ecru	167	65	159	62	143	56

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
221	Shell Pink-VY DK	31	11	26	9	13	5
223	Shell Pink-LT	302	119	252	99	126	50
224	Shell Pink-VY LT	112	43	93	36	47	18
300	Mahogany-VY DK	230	90	192	75	96	38
317	Pewter Gray	56	22	47	18	23	9
352	Coral-LT	4	2	3	2	2	1
355	Terra Cotta-DK	67	25	56	21	28	11
369	Pistachio Green-VY LT	149	58	125	48	62	24
372	Mustard-LT	248	97	207	81	104	41
400	Mahogany-DK	11	4	9	3	5	2
407	Desert Sand-DK	598	234	498	195	249	98
413	Pewter Gray-DK	157	61	131	51	65	26
414	Steel Gray-DK	124	49	104	41	52	20
435	Brown-VY LT	25	9	21	8	11	4
437	Tan-LT	121	47	101	39	50	20
451	Shell Gray-DK	520	203	434	170	217	85
452	Shell Gray-MD	398	157	332	131	166	65
453	Shell Gray-LT	140	54	117	45	59	23
500	Blue Green-VY DK	194	76	162	63	81	32
502	Blue Green	135	52	113	44	56	22
503	Blue Green-MD	65	25	54	21	27	11
520	Fern Green-DK	1447	569	1206	474	603	237
522	Fern Green	500	196	417	164	209	82
524	Fern Green-VY LT	918	360	765	300	383	150
535	Ash Gray-VY LT	121	47	101	39	50	20
543	Beige Brown-UL VY LT	401	157	335	131	167	65
564	Jade-VY LT	556	218	464	182	232	91
580	Moss Green-DK	268	104	224	87	112	44
613	Drab Brown-VY LT	500	196	417	164	209	82
632	Desert Sand-UL VY DK	121	47	101	39	50	20
644	Beige Gray-MD	574	225	479	188	239	94
645	Beaver Gray-VY DK	760	299	633	249	317	125
647	Beaver Gray-MD	112	43	93	36	47	18
680	Old Gold-DK	85	32	71	27	35	14
712	Cream	128	49	107	41	53	20
732	Olive Green	328	128	273	107	137	53
733	Olive Green-MD	1348	529	1124	441	562	221
734	Olive Green-LT	153	59	128	50	64	25
738	Tan-VY LT	416	162	347	135	173	68

739	Tan-UL VY LT	529	207	441	173	221	86
743	Yellow-MD	16	5	14	5	7	2
746	Off White	500	196	417	164	209	82
754	Peach-LT	94	36	78	30	39	15
758	Terra Cotta-VY LT	191	74	159	62	80	31
760	Salmon	50	20	42	17	21	8
772	Yellow Green-VY LT	58	22	48	18	24	9
778	Antique Mauve-VY LT	167	65	140	54	70	27
801	Coffee Brown-DK	277	108	231	90	116	45
816	Garnet	13	4	11	3	5	2
819	Baby Pink-LT	218	85	182	71	91	35
822	Beige Gray-LT	198	77	165	65	83	32
829	Golden Olive-VY DK	230	90	192	75	96	38
830	Golden Olive-DK	68	25	57	21	29	11
831	Golden Olive-MD	207	81	173	68	86	34
832	Golden Olive	254	99	212	83	106	41
833	Golden Olive-LT	59	22	50	18	25	9
834	Golden Olive-VY LT	211	83	176	69	88	35
842	Beige Brown-VY LT	149	58	125	48	62	24
844	Beaver Brown-UL DK	790	310	659	258	329	129
898	Coffee Brown-VY DK	56	22	47	18	23	9
919	Red Copper	74	29	62	24	31	12
920	Copper-MD	14	5	12	5	6	2
921	Copper	9	2	8	2	4	1
926	Gray Green-MD	139	54	116	45	58	23
928	Gray Green-VY LT	86	32	72	27	36	14
935	Avocado Green-DK	2246	884	1872	737	936	368
937	Avocado Green-MD	448	176	374	147	187	74
938	Coffee Brown-UL DK	995	391	830	326	415	163
948	Peach-VY LT	277	108	231	90	116	45
975	Golden Brown-DK	70	27	59	23	29	11
976	Golden Brown-MD	11	4	9	3	5	2
989	Forest Green	1220	479	1017	399	509	200
3011	Khaki Green-DK	1496	589	1247	491	623	245
3012	Khaki Green-MD	2513	988	2094	824	1047	412
3013	Khaki Green-LT	574	225	479	188	239	94
3021	Brown Gray-VY DK	1339	526	1116	438	558	219
3022	Brown Gray-MD	187	72	156	60	78	30
3023	Brown Gray-LT	430	169	359	141	179	71
3024	Brown Gray-VY LT	130	50	108	42	54	21
3032	Mocha Brown-MD	1066	419	888	350	444	175
3041	Antique Violet-MD	36	13	30	11	15	5
3045	Yellow Beige-DK	328	128	273	107	137	53
3046	Yellow Beige-MD	448	176	374	147	187	74
3052	Green Gray-MD	2077	817	1731	681	866	341
3053	Green Gray	1150	452	959	377	479	188
3072	Beaver Gray-VY LT	23	9	20	8	10	4
3328	Salmon-DK	72	27	60	23	30	11
3346	Hunter Green	864	338	720	282	360	141
3348	Yellow Green-LT	49	18	41	15	20	8
3350	Dusty Rose-UL DK	70	27	59	23	29	11
3362	Pine Green-DK	2853	1123	2378	936	1189	468
3363	Pine Green-MD	331	130	276	108	138	54
3364	Pine Green	1048	412	873	344	437	172
3685	Mauve-DK	9	2	8	2	4	1
3687	Mauve	104	40	87	33	44	17
3689	Mauve-LT	63	23	53	20	26	10
3713	Salmon-VY LT	25	9	21	8	11	4
3721	Shell Pink-DK	112	43	93	36	47	18

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3722	Shell Pink-MD	68	25	57	21	29	11
3726	Antique Mauve-DK	198	77	165	65	83	32
3733	Dusty Rose	41	16	35	14	17	7
3740	Antique Violet-DK	14	5	12	5	6	2
3753	Antique Blue-UL VY LT	9	2	8	2	4	1
3770	Tawny-VY LT	227	88	189	74	95	37
3772	Desert Sand-VY DK	139	54	116	45	58	23
3778	Terra Cotta-LT	85	32	71	27	35	14
3779	Terra Cotta-UL VY LT	43	16	36	14	18	7
3781	Mocha Brown-DK	178	68	149	57	74	29
3782	Mocha Brown-LT	626	247	522	206	261	103
3787	Brown Gray-DK	1175	463	980	386	490	193
3790	Beige Gray-UL DK	302	119	252	99	126	50
3799	Pewter Gray-VY DK	2142	842	1785	702	893	351
3820	Straw-DK	70	27	59	23	29	11
3823	Yellow-UL Pale	394	155	329	129	164	65
3852	Straw-VY DK	31	11	26	9	13	5
3853	Autumn Gold-DK	5	2	5	2	2	1
3854	Autumn Gold-MD	20	7	17	6	8	3
3855	Autumn Gold-LT	178	68	149	57	74	29
3856	Mahogany-UL VY LT	49	18	41	15	20	8
3860	Cocoa	457	180	381	150	191	75
3861	Cocoa-LT	428	167	357	140	179	70
3864	Mocha Beige-LT	54	20	45	17	23	8
3865	Winter White	297	115	248	96	124	48
3866	Mocha Brown-UL VY LT	310	121	258	101	129	50
ecru	Ecru	257	101	215	84	107	42

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
221	Shell Pink-VY DK	12	4	12	4	11	4
223	Shell Pink-LT	121	48	116	46	112	44
224	Shell Pink-VY LT	45	17	43	17	41	16
300	Mahogany-VY DK	92	36	89	35	85	33
317	Pewter Gray	22	9	21	8	21	8
352	Coral-LT	1	1	1	1	1	1
355	Terra Cotta-DK	27	10	26	10	25	9
369	Pistachio Green-VY LT	60	23	57	22	55	21
372	Mustard-LT	99	39	96	37	92	36
400	Mahogany-DK	4	1	4	1	4	1
407	Desert Sand-DK	239	94	230	90	221	87
413	Pewter Gray-DK	63	24	60	24	58	23
414	Steel Gray-DK	50	19	48	19	46	18
435	Brown-VY LT	10	4	10	3	9	3
437	Tan-LT	48	19	46	18	45	17
451	Shell Gray-DK	208	81	200	78	193	75
452	Shell Gray-MD	159	63	153	60	147	58
453	Shell Gray-LT	56	22	54	21	52	20
500	Blue Green-VY DK	78	30	75	29	72	28
502	Blue Green	54	21	52	20	50	19
503	Blue Green-MD	26	10	25	10	24	9
520	Fern Green-DK	579	228	557	219	536	211
522	Fern Green	200	78	192	75	185	73
524	Fern Green-VY LT	367	144	353	138	340	133
535	Ash Gray-VY LT	48	19	46	18	45	17

543	Beige Brown-UL VY LT	161	63	154	60	149	58
564	Jade-VY LT	222	87	214	84	206	81
580	Moss Green-DK	107	42	103	40	99	39
613	Drab Brown-VY LT	200	78	192	75	185	73
632	Desert Sand-UL VY DK	48	19	46	18	45	17
644	Beige Gray-MD	230	90	221	87	213	83
645	Beaver Gray-VY DK	304	120	292	115	281	111
647	Beaver Gray-MD	45	17	43	17	41	16
680	Old Gold-DK	34	13	33	12	31	12
712	Cream	51	19	49	19	47	18
732	Olive Green	131	51	126	49	121	47
733	Olive Green-MD	539	212	519	204	499	196
734	Olive Green-LT	61	24	59	23	57	22
738	Tan-VY LT	166	65	160	62	154	60
739	Tan-UL VY LT	212	83	204	80	196	77
743	Yellow-MD	6	2	6	2	6	2
746	Off White	200	78	192	75	185	73
754	Peach-LT	37	14	36	14	35	13
758	Terra Cotta-VY LT	76	30	73	28	71	27
760	Salmon	20	8	19	8	19	7
772	Yellow Green-VY LT	23	9	22	8	21	8
778	Antique Mauve-VY LT	67	26	64	25	62	24
801	Coffee Brown-DK	111	43	107	42	103	40
816	Garnet	5	1	5	1	5	1
819	Baby Pink-LT	87	34	84	33	81	31
822	Beige Gray-LT	79	31	76	30	73	29
829	Golden Olive-VY DK	92	36	89	35	85	33
830	Golden Olive-DK	27	10	26	10	25	9
831	Golden Olive-MD	83	32	80	31	77	30
832	Golden Olive	102	40	98	38	94	37
833	Golden Olive-LT	24	9	23	8	22	8
834	Golden Olive-VY LT	84	33	81	32	78	31
842	Beige Brown-VY LT	60	23	57	22	55	21
844	Beaver Brown-UL DK	316	124	304	119	293	115
898	Coffee Brown-VY DK	22	9	21	8	21	8
919	Red Copper	30	12	28	11	27	11
920	Copper-MD	6	2	6	2	5	2
921	Copper	4	1	3	1	3	1
926	Gray Green-MD	55	22	53	21	51	20
928	Gray Green-VY LT	35	13	33	12	32	12
935	Avocado Green-DK	899	354	864	340	832	327
937	Avocado Green-MD	179	71	172	68	166	65
938	Coffee Brown-UL DK	398	156	383	150	369	145
948	Peach-VY LT	111	43	107	42	103	40
975	Golden Brown-DK	28	11	27	10	26	10
976	Golden Brown-MD	4	1	4	1	4	1
989	Forest Green	488	192	469	184	452	177
3011	Khaki Green-DK	598	235	575	226	554	218
3012	Khaki Green-MD	1005	395	966	380	931	366
3013	Khaki Green-LT	230	90	221	87	213	83
3021	Brown Gray-VY DK	536	210	515	202	496	195
3022	Brown Gray-MD	75	29	72	28	69	27
3023	Brown Gray-LT	172	68	165	65	159	63
3024	Brown Gray-VY LT	52	20	50	19	48	19
3032	Mocha Brown-MD	426	168	410	161	395	155
3041	Antique Violet-MD	14	5	14	5	13	5
3045	Yellow Beige-DK	131	51	126	49	121	47
3046	Yellow Beige-MD	179	71	172	68	166	65
3052	Green Gray-MD	831	327	799	314	769	303

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3053	Green Gray	460	181	442	174	426	167
3072	Beaver Gray-VY LT	9	4	9	3	9	3
3328	Salmon-DK	29	11	28	10	27	10
3346	Hunter Green	346	135	332	130	320	125
3348	Yellow Green-LT	19	7	19	7	18	7
3350	Dusty Rose-UL DK	28	11	27	10	26	10
3362	Pine Green-DK	1141	449	1097	432	1057	416
3363	Pine Green-MD	132	52	127	50	123	48
3364	Pine Green	419	165	403	159	388	153
3685	Mauve-DK	4	1	3	1	3	1
3687	Mauve	42	16	40	15	39	15
3689	Mauve-LT	25	9	24	9	23	9
3713	Salmon-VY LT	10	4	10	3	9	3
3721	Shell Pink-DK	45	17	43	17	41	16
3722	Shell Pink-MD	27	10	26	10	25	9
3726	Antique Mauve-DK	79	31	76	30	73	29
3733	Dusty Rose	17	6	16	6	15	6
3740	Antique Violet-DK	6	2	6	2	5	2
3753	Antique Blue-UL VY LT	4	1	3	1	3	1
3770	Tawny-VY LT	91	35	87	34	84	33
3772	Desert Sand-VY DK	55	22	53	21	51	20
3778	Terra Cotta-LT	34	13	33	12	31	12
3779	Terra Cotta-UL VY LT	17	6	17	6	16	6
3781	Mocha Brown-DK	71	27	69	26	66	25
3782	Mocha Brown-LT	251	99	241	95	232	91
3787	Brown Gray-DK	470	185	452	178	435	171
3790	Beige Gray-UL DK	121	48	116	46	112	44
3799	Pewter Gray-VY DK	857	337	824	324	793	312
3820	Straw-DK	28	11	27	10	26	10
3823	Yellow-UL Pale	158	62	152	60	146	57
3852	Straw-VY DK	12	4	12	4	11	4
3853	Autumn Gold-DK	2	1	2	1	2	1
3854	Autumn Gold-MD	8	3	8	3	7	3
3855	Autumn Gold-LT	71	27	69	26	66	25
3856	Mahogany-UL VY LT	19	7	19	7	18	7
3860	Cocoa	183	72	176	69	169	67
3861	Cocoa-LT	171	67	165	64	159	62
3864	Mocha Beige-LT	22	8	21	8	20	7
3865	Winter White	119	46	114	44	110	43
3866	Mocha Brown-UL VY LT	124	48	119	46	115	45
ecru	Ecru	103	40	99	39	95	37

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
221	Shell Pink-VY DK	11	4	10	4	10	3
223	Shell Pink-LT	108	42	101	40	95	37
224	Shell Pink-VY LT	40	15	37	14	35	14
300	Mahogany-VY DK	82	32	77	30	72	28
317	Pewter Gray	20	8	19	7	17	7
352	Coral-LT	1	1	1	1	1	1
355	Terra Cotta-DK	24	9	22	8	21	8
369	Pistachio Green-VY LT	53	21	50	19	47	18
372	Mustard-LT	89	35	83	32	78	30
400	Mahogany-DK	4	1	4	1	3	1
407	Desert Sand-DK	213	84	199	78	187	73

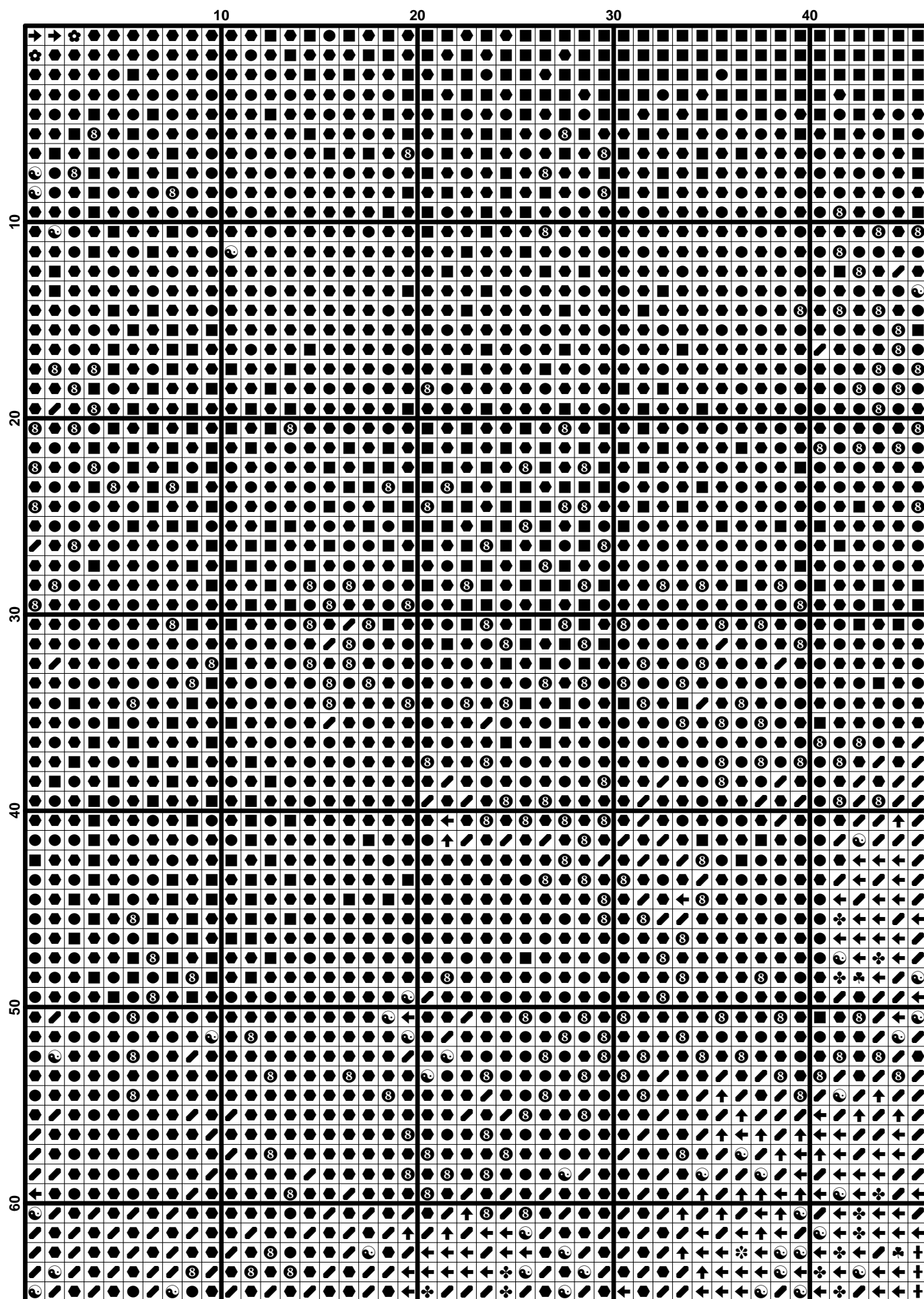
413	Pewter Gray-DK	56	22	52	20	49	19
414	Steel Gray-DK	44	17	41	16	39	15
435	Brown-VY LT	9	3	8	3	8	3
437	Tan-LT	43	17	40	16	38	15
451	Shell Gray-DK	186	73	173	68	163	64
452	Shell Gray-MD	142	56	133	52	124	49
453	Shell Gray-LT	50	19	47	18	44	17
500	Blue Green-VY DK	69	27	65	25	61	24
502	Blue Green	48	19	45	17	42	16
503	Blue Green-MD	23	9	22	8	20	8
520	Fern Green-DK	517	203	482	190	452	178
522	Fern Green	179	70	167	65	156	61
524	Fern Green-VY LT	328	129	306	120	287	113
535	Ash Gray-VY LT	43	17	40	16	38	15
543	Beige Brown-UL VY LT	143	56	134	52	125	49
564	Jade-VY LT	199	78	185	73	174	68
580	Moss Green-DK	96	37	89	35	84	33
613	Drab Brown-VY LT	179	70	167	65	156	61
632	Desert Sand-UL VY DK	43	17	40	16	38	15
644	Beige Gray-MD	205	80	191	75	179	70
645	Beaver Gray-VY DK	271	107	253	100	237	93
647	Beaver Gray-MD	40	15	37	14	35	14
680	Old Gold-DK	30	12	28	11	26	10
712	Cream	46	17	43	16	40	15
732	Olive Green	117	46	109	43	102	40
733	Olive Green-MD	482	189	449	176	421	165
734	Olive Green-LT	55	21	51	20	48	19
738	Tan-VY LT	149	58	139	54	130	51
739	Tan-UL VY LT	189	74	176	69	165	65
743	Yellow-MD	6	2	5	2	5	2
746	Off White	179	70	167	65	156	61
754	Peach-LT	33	13	31	12	29	11
758	Terra Cotta-VY LT	68	26	64	25	60	23
760	Salmon	18	7	17	7	16	6
772	Yellow Green-VY LT	21	8	19	7	18	7
778	Antique Mauve-VY LT	60	23	56	22	52	20
801	Coffee Brown-DK	99	39	92	36	87	34
816	Garnet	5	1	4	1	4	1
819	Baby Pink-LT	78	30	73	28	68	26
822	Beige Gray-LT	71	28	66	26	62	24
829	Golden Olive-VY DK	82	32	77	30	72	28
830	Golden Olive-DK	24	9	23	8	21	8
831	Golden Olive-MD	74	29	69	27	65	25
832	Golden Olive	91	35	85	33	79	31
833	Golden Olive-LT	21	8	20	7	19	7
834	Golden Olive-VY LT	75	30	70	28	66	26
842	Beige Brown-VY LT	53	21	50	19	47	18
844	Beaver Brown-UL DK	282	111	263	103	247	97
898	Coffee Brown-VY DK	20	8	19	7	17	7
919	Red Copper	26	10	25	10	23	9
920	Copper-MD	5	2	5	2	5	2
921	Copper	3	1	3	1	3	1
926	Gray Green-MD	50	19	46	18	43	17
928	Gray Green-VY LT	31	12	29	11	27	10
935	Avocado Green-DK	802	316	749	295	702	276
937	Avocado Green-MD	160	63	149	59	140	55
938	Coffee Brown-UL DK	356	140	332	130	311	122
948	Peach-VY LT	99	39	92	36	87	34
975	Golden Brown-DK	25	10	23	9	22	8

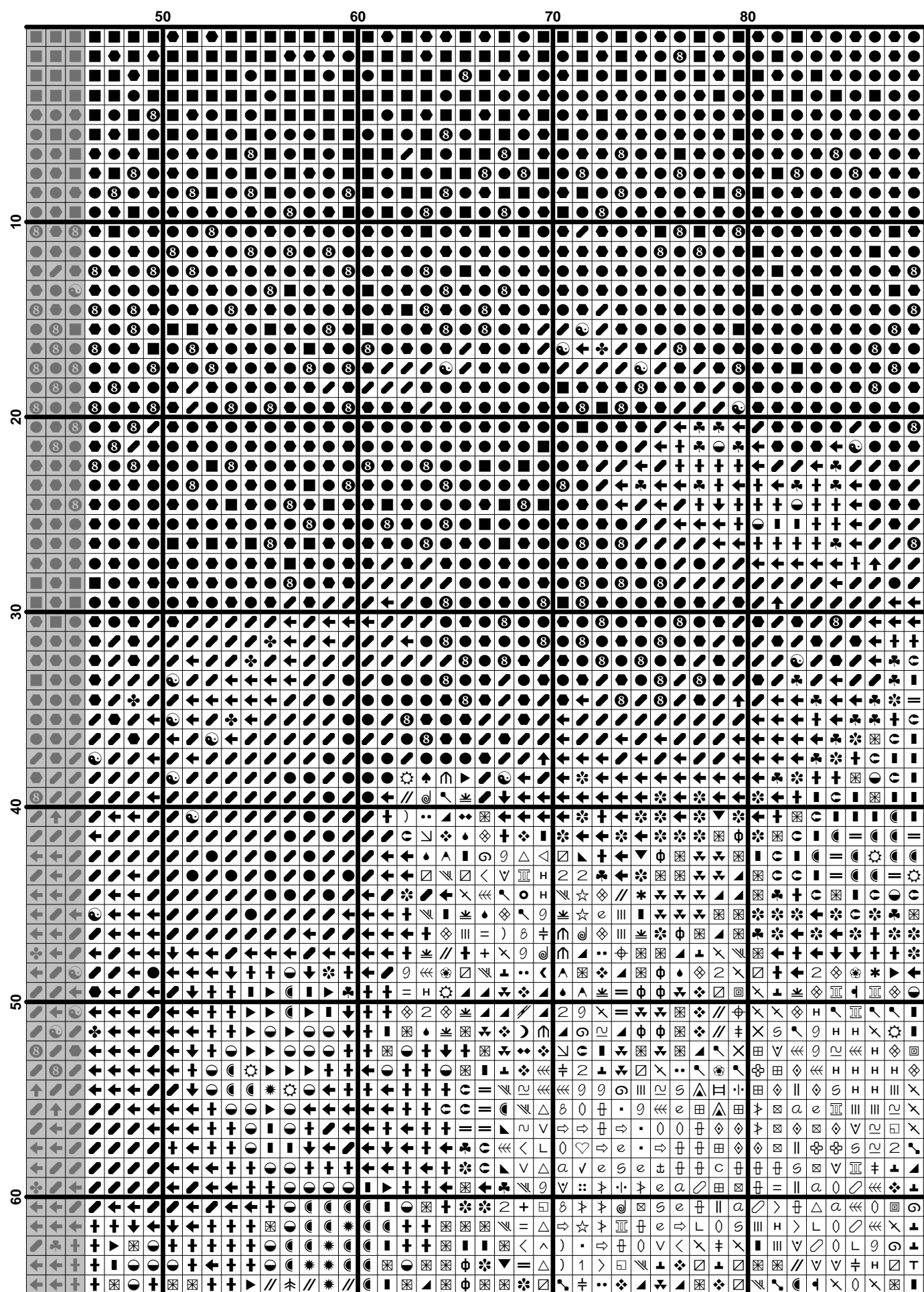
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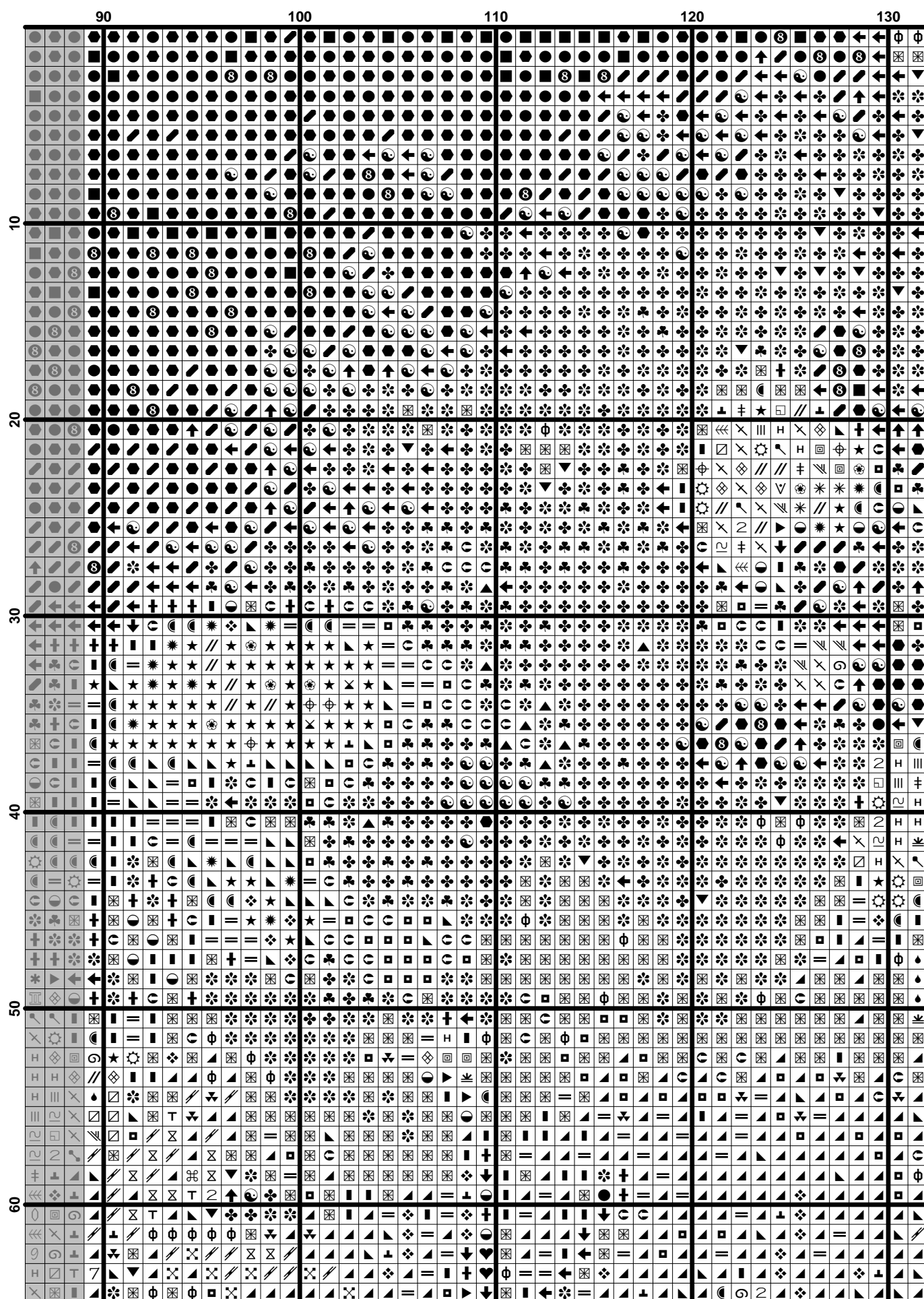
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976	Golden Brown-MD	4	1	4	1	3	1
989	Forest Green	436	171	407	160	381	150
3011	Khaki Green-DK	534	210	499	196	467	184
3012	Khaki Green-MD	897	353	838	329	785	309
3013	Khaki Green-LT	205	80	191	75	179	70
3021	Brown Gray-VY DK	478	188	446	175	419	164
3022	Brown Gray-MD	67	26	62	24	59	23
3023	Brown Gray-LT	154	60	143	56	134	53
3024	Brown Gray-VY LT	46	18	43	17	41	16
3032	Mocha Brown-MD	381	150	355	140	333	131
3041	Antique Violet-MD	13	5	12	4	11	4
3045	Yellow Beige-DK	117	46	109	43	102	40
3046	Yellow Beige-MD	160	63	149	59	140	55
3052	Green Gray-MD	742	292	692	272	649	255
3053	Green Gray	411	161	383	151	359	141
3072	Beaver Gray-VY LT	8	3	8	3	7	3
3328	Salmon-DK	26	10	24	9	23	8
3346	Hunter Green	309	121	288	113	270	106
3348	Yellow Green-LT	17	6	16	6	15	6
3350	Dusty Rose-UL DK	25	10	23	9	22	8
3362	Pine Green-DK	1019	401	951	374	892	351
3363	Pine Green-MD	118	46	110	43	104	41
3364	Pine Green	374	147	349	137	327	129
3685	Mauve-DK	3	1	3	1	3	1
3687	Mauve	37	14	35	13	33	12
3689	Mauve-LT	23	8	21	8	20	7
3713	Salmon-VY LT	9	3	8	3	8	3
3721	Shell Pink-DK	40	15	37	14	35	14
3722	Shell Pink-MD	24	9	23	8	21	8
3726	Antique Mauve-DK	71	28	66	26	62	24
3733	Dusty Rose	15	6	14	5	13	5
3740	Antique Violet-DK	5	2	5	2	5	2
3753	Antique Blue-UL VY LT	3	1	3	1	3	1
3770	Tawny-VY LT	81	32	76	29	71	28
3772	Desert Sand-VY DK	50	19	46	18	43	17
3778	Terra Cotta-LT	30	12	28	11	26	10
3779	Terra Cotta-UL VY LT	15	6	14	5	14	5
3781	Mocha Brown-DK	64	24	59	23	56	21
3782	Mocha Brown-LT	224	88	209	82	196	77
3787	Brown Gray-DK	420	165	392	154	367	145
3790	Beige Gray-UL DK	108	42	101	40	95	37
3799	Pewter Gray-VY DK	765	301	714	281	669	263
3820	Straw-DK	25	10	23	9	22	8
3823	Yellow-UL Pale	141	55	131	52	123	48
3852	Straw-VY DK	11	4	10	4	10	3
3853	Autumn Gold-DK	2	1	2	1	2	1
3854	Autumn Gold-MD	7	3	7	2	6	2
3855	Autumn Gold-LT	64	24	59	23	56	21
3856	Mahogany-UL VY LT	17	6	16	6	15	6
3860	Cocoa	163	64	152	60	143	56
3861	Cocoa-LT	153	60	143	56	134	52
3864	Mocha Beige-LT	19	7	18	7	17	6
3865	Winter White	106	41	99	38	93	36
3866	Mocha Brown-UL VY LT	111	43	103	40	97	38
ecru	Ecru	92	36	86	34	80	32





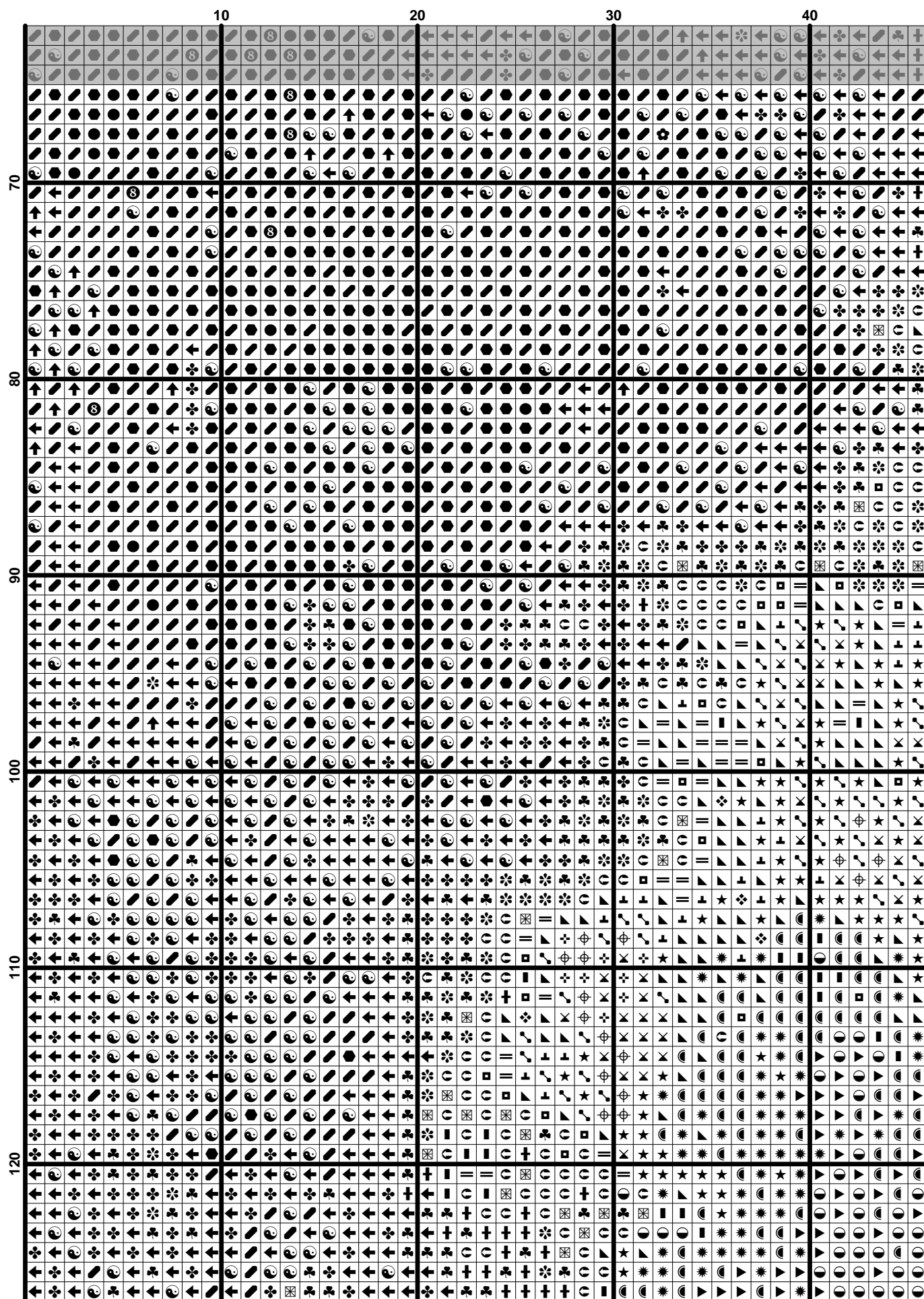


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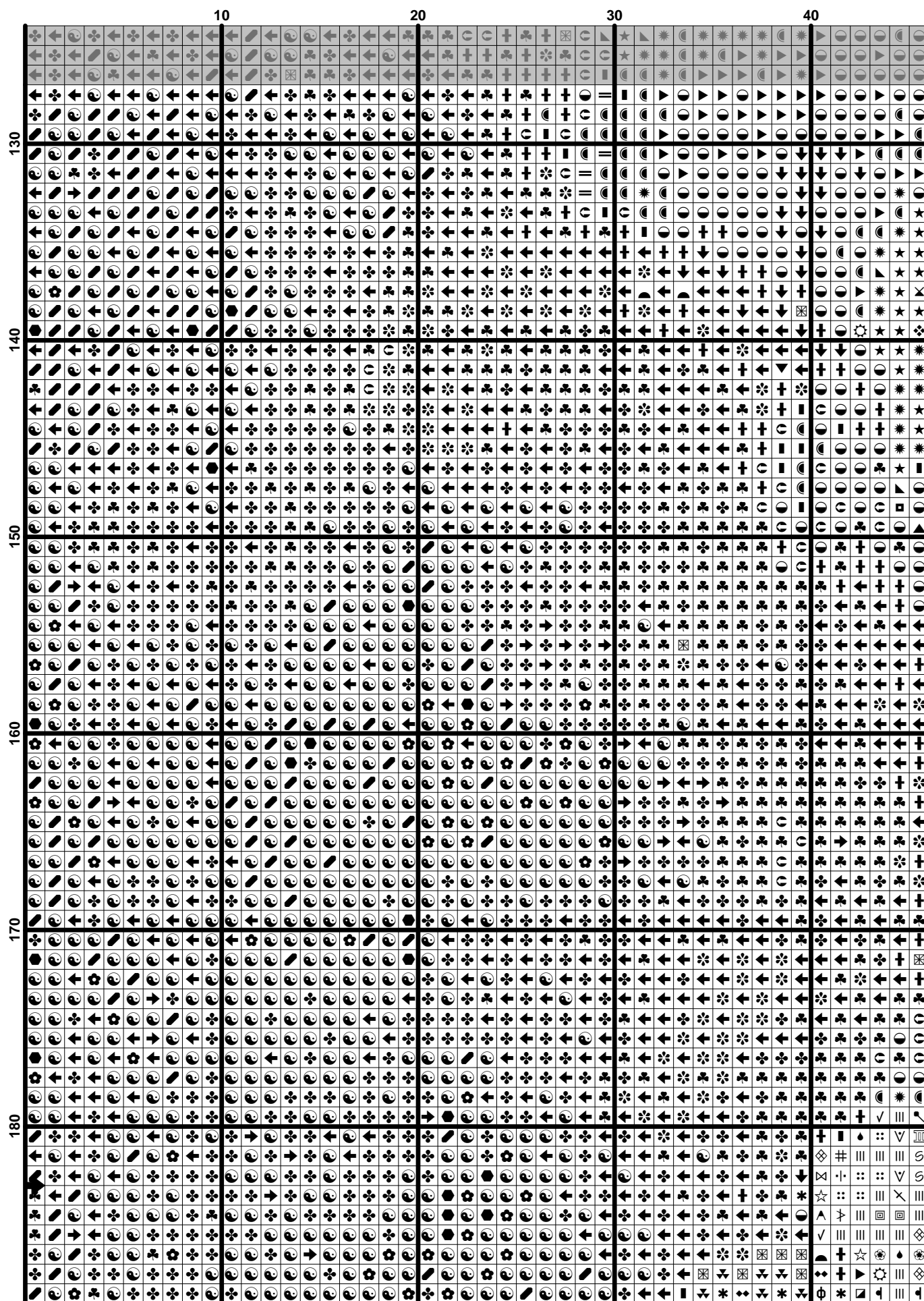
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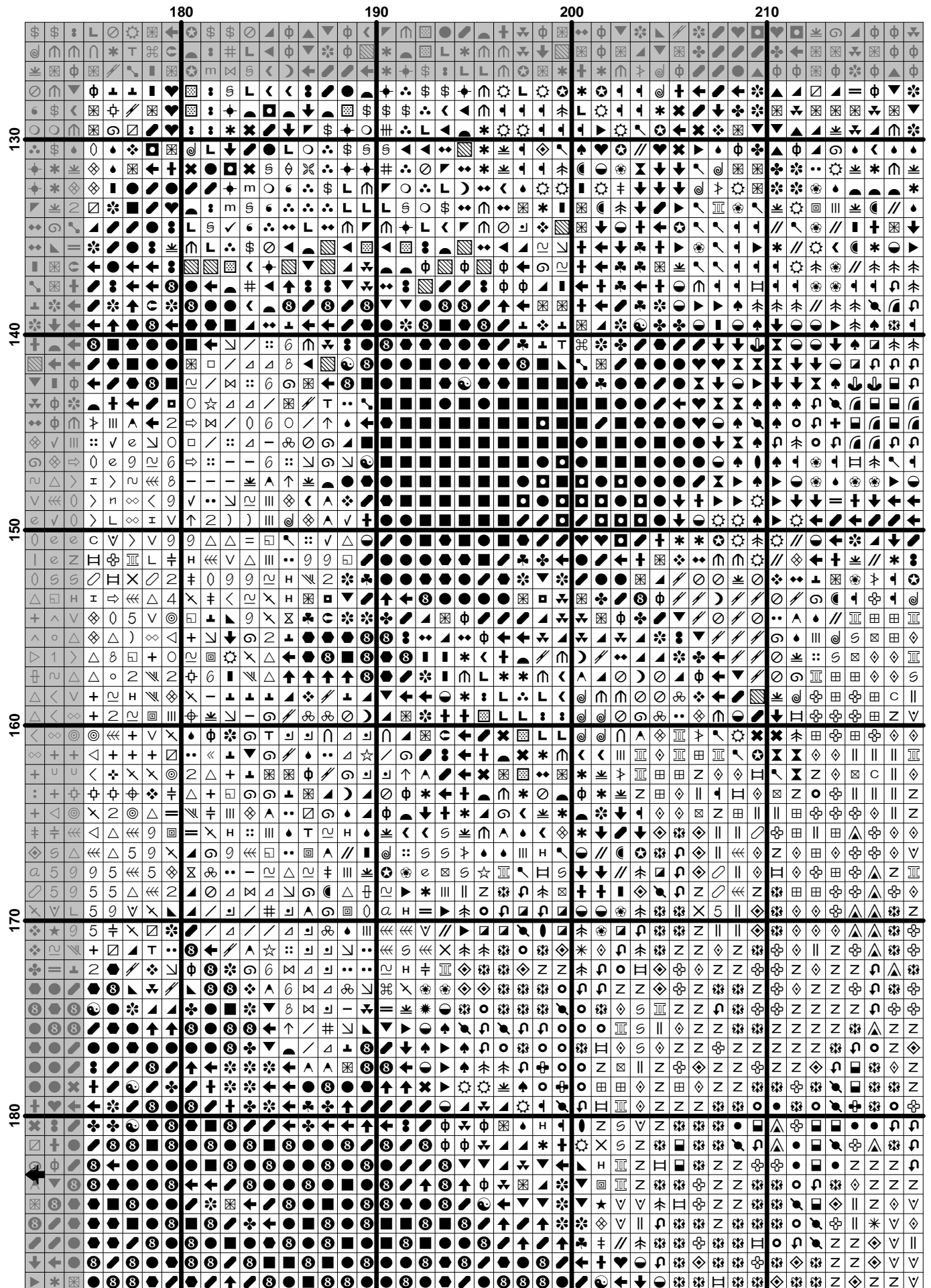
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$$(40) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left(\sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$

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