

CartoWerks Book lets you create highway shields, route markers and other enclosed alphanumeric symbols. Simply type one of the shield symbols followed by the numbers or uppercase letters you want enclosed within it. To create a 1-digit (or one letter) symbol, press space before typing the number or letter.



	1	2	3	4	5	6	7	8	9	0	-		=	Delete
Tab	q	w	e	r	t	y	u	i	o	p	[	]	\	
Caps Lock	a	s	d	f	g	h	j	k	l	.	,	'	Return	
Shift	z	x	c	v	b	n	m	,	.	/	.	.	Shift	

	!	@	#	\$	%		^	&	*	(	)	-	+	Delete
Tab	Q	W	E	R	T	Y	U	I	O	P	{	}		
Caps Lock	A	S	D	F	G	H	J	K	L	:	"	"	Return	
Shift	Z	X	C	V	B	N	M	<	>	?	?	?	Shift	

HIGHWAY SHIELD INDEX

- a Europe 1 or 2-digit
- b Europe 3-digit
- c California 1 or 2-digit
- d California 3-digit
- e California Mission trail
- f Forest Service road
- i Interstate 1 or 2-digit
- j Interstate 3-digit
- o Interstate 1 or 2-digit
- w Interstate 3-digit
- g Interstate 1 or 2-digit
- h Interstate 3-digit
- k Canada 1 or 2-digit
- m Mexico 1 or 2-digit
- n Parks
- r US Historic trail
- s CA County 1 or 2-digit
- t CA County 3-digit
- u US Highway 1 or 2-digit
- u US Highway 3-digit
- = Military 1 or 2-digit

OTHER ENCLOSING SYMBOLS

- ( Circle 1-digit
- \* Circle 1 or 2-digit
- : Shaded Circle 1 or 2-digit
- \ Slashed Circle 1 or 2-digit
- { Oval 1 or 2-digit
- { Vertical Oval 1-digit
- } Oval 3-digit
- ) Oval 4-digit
- + Square 1 or 2-digit
- ; Shaded Square 1 or 2-digit
- & Rounded Rect. 1-digit
- [ Rectangle 3-digit
- ] Rectangle 4-digit
- , Triangle 1 or 2-digit
- > Triangle 1 or 2-digit
- < Triangle 1 or 2-digit
- | Triangle 1 or 2-digit
- / Diamond 1 or 2-digit
- ~ Flag 4-digit

CHANNEL MARKERS

- x Port (left) buoy
- y Starboard (right) buoy
- z Mid-channel buoy

MULTI-PART U.S. INTERSTATE SHIELDS

The symbols shown in red above are multi-part interstate shields that let you create route markers in multiple colors, e.g., a blue and red shield with blue numbers. To create multi-part shields, use the following key sequences:

1 or 2-digit shields: p + number



3-digit shields: ^q + number



CartoWerks Fill lets you create solid versions of the regular CartoWerks symbols. Select the color you want and type one of the symbols or shields. Now change the font color (e.g., to white), and type the letters or numbers you want within it.



~	1	2	3	4	5	6	7	8	9	0	-	=	Delete
Tab	q	w	e	r	t	y	u	i	o	p	[	]	\
Caps Lock	a	s	d	f	g	h	j	k	l	;	'	Return	
Shift	z	x	c	v	b	n	m	,	.	/		Shift	

~	!	@	#	\$	%	^	&	*	(	)	-	+	Delete
Tab	Q	W	E	R	T	Y	U	I	O	P	{	}	
Caps Lock	A	S	D	F	G	H	J	K	L	:	"	Return	
Shift	Z	X	C	V	B	N	M	<	>	?		Shift	

Fill symbols are very useful for knocking out background color or image detail. Consider the following:



Background detail can be seen within the regular shield on the left, interfering with its legibility. The shield on the right was created with CartoWerks Fill. It's a multi-part shield. The top part (type `^` to create it) has a black fill color, the bottom (type `p` to create it) is white, and both have a black 0.33pt stroke applied. The number "90" has a black fill and no stroke.

**TIP:** All of the fill symbols in CartoWerks Fill are also contained in CartoWerks Book. You can select them using your application's glyph palette.

The characters marked in red above are multi-part interstate shields that let you create multi-colored route markers, e.g., a blue and red shield with white numbers. To create multi-part shields, use the following key sequences:

1 or 2-digit shields: `^p + number` 

3-digit shields: `^q + number` 

In the above example, change the font color to red and type the shield's top (`^` or `^` depending on whether you want a 2- or 3-digit shield); change the font color to blue and type the bottom (`p` or `q`); now change the font color to white and type the numbers. In applications that let you change fill and stroke, you could apply a white stroke to the shields, as in the example below, to create a nice finishing touch.



**CartoWerks Arrows** contains a large selection of directional arrows, symbols and pointers. The glyphs marked in red below can be used in combination with the other glyphs to create compound symbols. Simply type one of the red keys, then press another key and the combined symbol will be created.



⬆️	1	2	3	4	5	6	7	8	9	0	-	=	Delete
⬆️	↖️	⬇️	↗️	⬅️	⚡️	➡️	↙️	⬆️	↘️	⬆️	⬅️	➡️	
Tab	↖️	⬆️	↗️	⬆️	⬆️	⬆️	⬆️	⬆️	⬆️	⬆️	⬆️	⬆️	⬆️
Caps Lock	⬅️	⬅️	➡️	⬇️	⬅️	➡️	⬆️	⬆️	⬆️	⬆️	⬆️	⬆️	Return
Shift	↙️	⬇️	↘️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	⬇️	Shift

~	!	@	#	\$	%	^	&	*	(	)	-	+	Delete
⬆️	⬆️	⬆️	⬆️	⬆️	⬆️	⬆️	⬆️	⬆️	⬆️	⬆️	⬆️	⬆️	⬆️
Tab	↘️	↗️	↘️	↖️	⬆️	⬆️	⬆️	⬆️	⬆️	⬆️	⬆️	⬆️	⬆️
Caps Lock	⬅️	⬅️	➡️	⬆️	⬆️	⬆️	⬆️	⬆️	⬆️	⬆️	⬆️	⬆️	Return
Shift	↘️	↘️	↘️	⬆️	⬆️	⬆️	⬆️	⬆️	⬆️	⬆️	⬆️	⬆️	Shift

7	8	9
↙️	⬆️	↘️
4	5	6
⬅️	⚡️	➡️
1	2	3
↖️	⬇️	↗️
0		
⬆️		

**TIP:** The above arrows are assigned to number keys in such a way that the numeric keypad provides a mnemonic device.

Other symbols			
	Mac OS	Windows	
●	Op g	Alt 0169	⬅️
◆	Op \	Alt 0171	➡️
■	Op r	Alt 0174	⬆️
⋮	Op `e	Alt 0232	⬇️
⋮	Op ee	Alt 0233	↖️
⋮	Op ie	Alt 0234	↘️
⋮	Op ue	Alt 0235	↙️
↻	Op Sh o	Alt 0216	↻
↻	Op o	Alt 0248	↻
⬆️	Op n n	Alt 0241	⬆️
			Op ` Sh u
			Alt 0217
			Op e Sh u
			Alt 0218
			Op i Sh u
			Alt 0219
			Op u Sh u
			Alt 0220
			Op ` u
			Alt 0249
			Op e u
			Alt 0250
			Op i u
			Alt 0251
			Op u u
			Alt 0252

Most of the CartoWerks symbols can be typed directly from standard keyboard keys as shown above. Some symbols, however, are located in positions beyond the standard slots and require the use of "Alt" key combinations (Windows) or "Option" key combinations (Mac) to create them.

**Windows:** Hold down the Alt key and type the combination from the numeric keypad. When you release the Alt key, the symbol corresponding to that combination is created.

**Mac OS:** "Op" stands for the Option key, and "Sh" stands for the Shift key.

CartoWerks Symbols 01 contains a variety of cartographic symbols, waypoint markers, landmark and commercial icons, etc., useful for maps, legends, guidebooks, signs and more. The glyphs marked in red below can be used in combination with the other symbols to create enclosed icons. Simply type one of the red keys, then press another key and the combined symbol will be created.



⊖	1	2	3	4	5	6	7	8	9	0	-	=	Delete
⊕	⌕	🚩	🚩	🚩	🚩	📦	⬠	🏠	🌸	🔍	☀️	☕	
Tab	q	w	e	r	t	y	u	i	o	p	[	]	⊘
🧑	♿	🍴	👫	🚂	⚓	🛒	📍	🌑	🏠	👉	👈	⊘	
Caps Lock	a	s	d	f	g	h	j	k	l	;	'	Return	
	🚗	🚲	🦌	🛖	🛢️	⊕	⬆️	⬆️	⚠️	🛏️	🚚	📌	
Shift	z	x	c	v	b	n	m	,	.	/		Shift	
	🧑	✘	📷	☎️	🚗	🧭	🏍️	⚠️	🎯	⬠			

~	!	@	#	\$	%	^	&	*	(	)	_	+	Delete
🏠	⚡	🚀	✳️	💰	🧑	🏢	🚚	⬠	🚰	🚗	)	(	⬠
Tab	Q	W	E	R	T	Y	U	I	O	P	{	}	
	🧑	🔧	⚡	⊘	🚂	⚓	❄️	🚩	🐮	📍	🐶	🐱	⬠
Caps Lock	A	S	D	F	G	H	J	K	L	:	"	Return	
	✈️	🚚	🔥	🚲	🛢️	H	🌲	🌟	🚗	🏠	📌		
Shift	Z	X	C	V	B	N	M	<	>	?		Shift	
	🚧	⊘	🔭	📱	🍺	🧭	🏍️	🚩	🚩	?			

Fill symbols		
Mac OS	Windows	
⬇️	Op Sh 3	Alt 0139
⬆️	Op Sh 4	Alt 0155
●	Op g	Alt 0169
⬠	Op \	Alt 0171
■	Op r	Alt 0174

**Using fill symbols**

The red symbols at left are fill characters. They work just like the \* and + enclosing characters, but are more flexible for setting fill and stroke colors (in applications that give you such options). Select a color (e.g., blue like the gas station symbol at the top of the page) and type one of the fill characters. Now change the font color to white and type a symbol.

**TIP:** Many (but not all) of the symbols correspond to keys containing the first letter of the symbol's name. The B key, for example, creates symbols for bus stop and bar (Shift-B), while the L key creates symbols for lodging and law enforcement officer (Shift-L). The R key creates a restroom symbol, while Shift-R creates a railroad crossing sign.

CartoWerks Symbols 02 contains a variety of cartographic symbols, waypoint markers, landmark and commercial icons, etc., useful for maps, legends, guidebooks, signs and more. The glyphs marked in red below can be used in combination with the other symbols to create enclosed icons. Simply type one of the red keys, then press another key and the combined symbol will be created.



⚠	1	2	3	4	5	6	7	8	9	0	-	=	Delete
⚠	🏠	Mobil	EXON	🌟	CONOCO	BP	🌡	🌡	🌡	🏠	☀	◇	
Tab	q	w	e	r	t	y	u	i	o	p	[	]	⊘
⊘	📶	AAA	✈	🚂	🚗	🚗	🚗	🚗	🚗	🚗	🚗	🚗	⊘
Caps Lock	a	s	d	f	g	h	j	k	l	;	'	Return	
🚗	🚗	🚗	🚗	🚗	🚗	🚗	🚗	🚗	🚗	🚗	🚗	🚗	🚗
Shift	z	x	c	v	b	n	m	,	.	/	Shift		
🚗	✓	🌟	🚗	🚗	🚗	🚗	🚗	🚗	🚗	🚗	🚗	🚗	

~	!	@	#	\$	%	^	&	*	(	)	_	+	Delete
~	🚗	🚗	🚗	🚗	🚗	🚗	🚗	🚗	🚗	🚗	🚗	🚗	🚗
Tab	Q	W	E	R	T	Y	U	I	O	P	{	}	
🚗	🚗	🚗	🚗	🚗	🚗	🚗	🚗	🚗	🚗	🚗	🚗	🚗	🚗
Caps Lock	A	S	D	F	G	H	J	K	L	:	"	Return	
🚗	🚗	🚗	🚗	🚗	🚗	🚗	🚗	🚗	🚗	🚗	🚗	🚗	🚗
Shift	Z	X	C	V	B	N	M	<	>	?	Shift		
🚗	🚗	🚗	🚗	🚗	🚗	🚗	🚗	🚗	🚗	🚗	🚗	🚗	

Fill symbols		
	Mac OS	Windows
▽	Op Sh 3	Alt 0139
▲	Op Sh 4	Alt 0155
●	Op g	Alt 0169
◆	Op \	Alt 0171
■	Op r	Alt 0174

#### Using fill symbols

The red symbols at left are fill characters. They work just like the \* and + enclosing characters, but are more flexible for setting fill and stroke colors (in applications that give you such options). Select a color (e.g., orange like the warning symbol at the top of the page) and type one of the fill characters. Now change the font color to black and type a symbol.

**TIP:** Many (but not all) of the icons correspond to keys containing the first letter of the icon. The T key, for example, creates icons for trolley and train (Shift-T), while the G key creates icons for geocache and gun.

CartoWerks Symbols 03 contains a variety of popular recreational activity symbols. These symbols are very useful for creating trail maps, activity guides and signs for parks, recreational areas, campgrounds, resorts, marinas, ski areas, etc.



+	1	2	3	4	5	6	7	8	9	0	-	=	Delete
Tab	q	w	e	r	t	y	u	i	o	p	[	]	\
Caps Lock	a	s	d	f	g	h	j	k	l	;	'	Return	
Shift	z	x	c	v	b	n	m	,	.	/		Shift	

~	!	@	#	\$	%	^	&	*	(	)	_	+	Delete
Tab	Q	W	E	R	T	Y	U	I	O	P	{	}	
Caps Lock	A	S	D	F	G	H	J	K	L	:	"	Return	
Shift	Z	X	C	V	B	N	M	<	>	?		Shift	

Other symbols		
Mac OS	Windows	
	Op Sh 3	Alt 0139
	Op Sh 4	Alt 0155
	Op g	Alt 0169
	Op r	Alt 0174
	Op s	Alt 0223

**Using fill symbols**

The red symbols at left are fill characters. They work just like the \* and + enclosing characters, but are more flexible for setting fill and stroke colors (in applications that give you such options). Select a color (e.g., brown like the symbols at the top of the page) and type one of the fill characters. Now change the font color (e.g., to white), and type a symbol.

**TIP:** Many (but not all) of the icons correspond to keys containing the first letter of the designated activity. The upper and lowercase B key, for example, creates icons for bicycling, while the C key creates icons for canoeing. W for windsurfing or waterskiing (Shift-W), R for ranger station or rest area, etc.

CartoWerks Symbols 03b contains a variety of popular recreational activity symbols. These symbols are very useful for creating trail maps, activity guides and signs for parks, recreational areas, campgrounds, resorts, marinas, ski areas, etc.



⌘	1	2	3	4	5	6	7	8	9	0	-	=	Delete
Tab	q	w	e	r	t	y	u	i	o	p	[	]	↩
Caps Lock	a	s	d	f	g	h	j	k	l	;	'	Return	
Shift	z	x	c	v	b	n	m	,	.	/		Shift	

~	!	@	#	\$	%	^	&	*	(	)	-	+	Delete
Tab	Q	W	E	R	T	Y	U	I	O	P	{	}	
Caps Lock	A	S	D	F	G	H	J	K	L	:	"	Return	
Shift	Z	X	C	V	B	N	M	<	>	?		Shift	

Other symbols		
Mac OS	Windows	
	Op Sh 3	Alt 0139
	Op Sh 4	Alt 0155
	Op g	Alt 0169
	Op r	Alt 0174
	Op s	Alt 0223

**Using fill symbols**

The red symbols at left are fill characters. They work just like the \* and + enclosing characters, but are more flexible for setting fill and stroke colors (in applications that give you such options), and are particularly useful for knocking out backgrounds and colors. Fill symbols are kerned to allow the regular symbols to be placed directly over them automatically.

**TIP:** Many (but not all) of the icons correspond to keys containing the first letter of the designated activity. The upper and lowercase B key, for example, creates icons for bicycling, while the C key creates icons for canoeing. W for windsurfing or waterskiing (Shift-W), R for ranger station or rest area, etc.

CartoWerks City was designed to indicate cities, towns, capitals and county seats on maps. The symbols can be combined in several fashions, in both standard and fill variations.



`	1	2	3	4	5	6	7	8	9	0	-	=	Delete
Tab	q	w	e	r	t	y	u	i	o	p	[	]	\
Caps Lock	a	s	d	f	g	h	j	k	l	;	'	Return	
Shift	z	x	c	v	b	n	m	,	.	/		Shift	

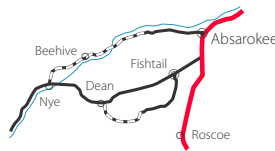
~	!	@	#	\$	%	^	&	*	(	)	_	+	Delete
Tab	Q	W	E	R	T	Y	U	I	O	P	{	}	
Caps Lock	A	S	D	F	G	H	J	K	L	:	"	Return	
Shift	Z	X	C	V	B	N	M	<	>	?		Shift	

CITIES & TOWNS

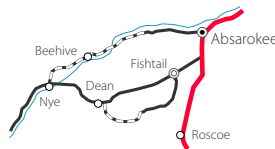
County Seat	City or Town	Population	Name
◇	○	Under 50	Norris
◆	◎	50–1,000	Emigrant
◈	⊙	1,000–2,500	Absarokee
◈	⊙	2,500–10,000	Livingston
Ⓜ	⊙	10,000–25,000	Kalispell
Ⓜ	⊙	Over 25,000	Bozeman

Using fill symbols

The red glyphs above are fill symbols, which are useful when you need to place city and town markers on top of other objects, such as roads and rivers in maps. In the first example below, the town symbols were created by typing the 0, 1 and 2 keys. Notice how they're obscured by the background detail...



Fill symbols were used on the same map below with more legible results. These symbols are kerned to allow the regular symbols to be placed directly over them automatically. For example, set the font color to white and press c to create a solid white circle. Now change the font color to black and press the 2 key. You'll see a town symbol such as the one for "Absarokee" below.



**CartoWerks Markers 01** lets you create various marker symbols for maps, guide books, etc. Simply press one of the keys indicated in red followed by the numbers or uppercase letters you want enclosed within it. The markers were designed to enclose either one or two numerals or letters.



`	1	2	3	4	5	6	7	8	9	0	-	=	Delete
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>0</b>	-		
Tab	q	w	e	r	t	y	u	i	o	p	[	]	\
Caps Lock	a	s	d	f	g	h	j	k	l	;	'	Return	
Shift	z	x	c	v	b	n	m	,	.	/		Shift	

~	!	@	#	\$	%	^	&	*	(	)	_	+	Delete
	<b>!</b>		<b>#</b>	<b>\$</b>									
Tab	Q	W	E	R	T	Y	U	I	O	P	{	}	
	<b>Q</b>	<b>W</b>	<b>E</b>	<b>R</b>	<b>T</b>	<b>Y</b>	<b>U</b>	<b>I</b>	<b>O</b>	<b>P</b>			
Caps Lock	A	S	D	F	G	H	J	K	L	:	"	Return	
	<b>A</b>	<b>S</b>	<b>D</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>J</b>	<b>K</b>	<b>L</b>		<b>"</b>		
Shift	Z	X	C	V	B	N	M	<	>	?		Shift	
	<b>Z</b>	<b>X</b>	<b>C</b>	<b>V</b>	<b>B</b>	<b>N</b>	<b>M</b>			<b>?</b>			

**Using the fill symbol**

Pressing the underscore key (Shift-hyphen) generates a fill symbol useful for knocking out background color and image detail. The fill symbol is kerned to allow the other symbols to be typed directly over it automatically.

In the example below, background detail can be seen within the marker on the left, interfering with its legibility. Compare it to the marker on the right, which uses a solid white fill symbol to mask the background map detail.

