ATARI 2600 HARDWARE REFERENCE GUIDE

Colour Palette Quick Reference

NTSC

128 Unique Colours



PAL

104 Unique Colours

			COLOUR (HUE) (High Nybble)															
		0	1	2	3	4	5	6	7	8	9	Α	В	С	D	E	F	
L U M	0-1	#000000	#000000	#805800	#445C00	#703400	#006414	#700014	#005C5C	#70005C	#003C70	#580070	#002070	#3C0080	#000088	#000000	#000000	0-1
	2-3	#282828	#282828	#947020	#5C7820	#885020	#208034	#882034	#207474	#842074	#1C5888	#6C2088	#1C3C88	#542094	#20209C	#282828	#282828	2-3
I N	4-5	#505050	#505050	#A8843C	#74903C	#A0683C	#3C9850	#A03C50	#3C8C8C	#943C88	#3874A0	#803CA0	#3858A0	#6C3CA8	#3C3CB0	#505050	#505050	4-5
A N	6-7	#747474						#B4586C		#A8589C	#508CB4	#9458B4	#5074B4	#8058BC	#5858C0			6-7
C E	8-9	#949494	#949494	#CCAC70	#A0C070	#C89870	#70C484	#C87084	#70B8B8	#B470B0	#68A4C8	#A470C8	#6888C8	#9470CC	#7070D0	#949494	#949494	8-9
(LUM)	A-B	#B4B4B4	#B4B4B4	#DCC084	#B0D484	#DCAC84	#84D89C	#DC849C	#84C8C8	#C484C0	#7CB8DC	#B484DC	#7CA0DC	#A884DC	#8484E0	#B4B4B4	#B4B4B4	A-B
(Low	C-D	#D0D0D0	#D0D0D0	#ECD09C	#C4E89C	#ECC09C	#9CE8B4	#EC9CB4	#9CDCDC	#D09CD0	#90CCEC	#C49CEC	#90B4EC	#B89CEC	#9C9CEC	#D0D0D0	#D0D0D0	C-D
Nybble)	E-F	#ECECEC	#ECECEC	#FCE0B0	#D4FCB0	#FCD4B0	#B0FCC8	#FCB0C8	#B0ECEC	#E0B0E0	#A4E0FC	#D4B0FC	#A4C8FC	#C8B0FC	#B0B0FC	#ECECEC	#ECECEC	E-F

SECAM

8 Unique Colours

								СО	LOUR (HUE) (High Nyb	ble)							
		0	1	2	3	4	5	6	7	8	9	Α	В	С	D	E	F	
L	0-1	#000000	#000000	#000000	#000000	#000000	#000000	#000000	#000000	#000000	#000000	#000000	#000000	#000000	#000000	#000000	#000000	0-1
U M	2-3	#2121FF	#2121FF	#2121FF	#2121FF	#2121FF	#2121FF	#2121FF	#2121FF	#2121FF	2-3							
I N	4-5	#F03C79	#F03C79	#F03C79	#F03C79	#F03C79	#F03C79	#F03C79	#F03C79	#F03C79	4-5							
A N	6-7	#FF50FF	#FF50FF	#FF50FF	#FF50FF	#FF50FF	#FF50FF	#FF50FF	#FF50FF	#FF50FF	6-7							
C E	8-9	#7FFF00	#7FFF00	#7FFF00	#7FFF00	#7FFF00	#7FFF00	#7FF00	#7FFF00	#7FFF00	#7FFF00	#7FF00	#7FFF00	#7FFF00	#7FFF00	#7FFF00	#7FFF00	8-9
(LUM)	A-B	#7FFFF	#7FFFF	#7FFFFF	#7FFFF	#7FFFF	#7FFFF	#7FFFFF	#7FFFFF	#7FFFF	A-B							
(Low	C-D	#FFFF3F	#FFFF3F	#FFFF3F	#FFFF3F	#FFFF3F	#FFFF3F	#FFFF3F	#FFFF3F	#FFFF3F	C-D							
Nybble)	E-F	#FFFFFF	#FFFFF	#FFFFFF	#FFFFFF	#FFFFFF	#FFFFFF	#FFFFFF	#FFFFF	#FFFFFF	#FFFFF	#FFFFFF	#FFFFF	#FFFFFF	#FFFFF	#FFFFFF	#FFFFF	E-F

COMMON PALETTES

SECAM->NTSC and PAL (S->N+P)

COLOUR	NAME	NTSC	PAL	SECAM
\$00	Black	#000000	#000000	#000000
\$92	Blue	#1C3890	#1C5888	#2121FF
\$44	Red	#B03C3C	#A0683C	#F03C79
\$66	Magenta	#8C58B8	#B4586C	#FF50FF
\$78	Green	#7C70D0	#70B8B8	#7FFF00
\$9A	Cyan	#7C9CDC	#7CB8DC	#7FFFF
\$2C	Yellow	#DCB468	#ECD09C	#FFFF3F
\$0E	White	#ECECEC	#ECECEC	#FFFFF
	\$00 \$92 \$44 \$66 \$78 \$9A \$2C	\$00 Black \$92 Blue \$44 Red \$66 Magenta \$78 Green \$9A Cyan \$2C Yellow	\$00 Black #000000 \$92 Blue #1C3890 \$44 Red #803C3C \$66 Magenta #8C58B8 \$78 Green #7C70D0 \$9A Cyan #7C9CDC \$2C Yellow #DCB468	\$00 Black #000000 #0000000 \$92 Blue #1C3890 #1C5888 \$44 Red #803C3C #A0683C \$66 Magenta #8C5888 #B4586C \$78 Green #7C70D0 #708888 \$9A Cyan #7C9CDC #7C8BDC \$2C Yellow #DCB468 #ECD09C

Best all round portable approximations	s of SECAM of	colours for I	NTSC and P	AL.		SECAM map	ped to NTS	C (preferred)
Brightness is aligned for all 3 TV stand	dards and inci	reases fron	n dark to ligh	t when in Ba	W mode.	Brightness is	aligned for	B&W mode.

SECAM->NTSC,PAL (S->N,P)

COLOUR	NTSC	PAL	SECAM					
\$00-\$01	#000000	#000000	#000000					
\$92-\$93	#1C3890	#1C5888	#2121FF					
\$44-\$45	#B03C3C	#A0683C	#F03C79					
\$66-\$67	#8C58B8	#B4586C	#FF50FF					
\$D8-\$D9	#84B468	#7070D0	#7FFF00					
\$AA-\$AB	#7CB4D4	#B484DC	#7FFFF					
\$1C-\$1D	#E8E85C	#D0D0D0	#FFFF3F					
\$0E-\$0F	#ECECEC	#ECECEC	#FFFFF					
SECAM mapped to NTSC (preferred) and then PA								

SECAM->PAL,NTSC (S->P,N)

LUM.

COLOUR	NTSC	PAL	SECAM			
\$00-\$01	#000000	#000000	#000000			
\$92-\$93	#1C3890	#1C5888	#2121FF			
\$64-\$65	#783CA4	#A03C50	#F03C79			
\$A6-\$A7	#5084AC	#9458B4	#FF50FF			
\$58-\$59	#C070B0	#70C484	#7FFF00			
\$9A-\$9B	#7C9CDC	#7CB8DC	#7FFFFF			
\$2C-\$2D	#DCB468	#ECD09C	#FFFF3F			
\$0E-\$0F	#ECECEC	#ECECEC	#FFFFF			
SECAM map to PAL (preferred) and then NTSC.						

Brightness is aligned for B&W mode

NTSC and PAL have closely matching colours for \$0n (Greyscale), \$2n (Browns), and \$9n (Aqua).

TIA COLOUR REGISTERS

TIA - Write

Addr	Name	Hi-Nybble	Lo-Nybble	
\$06	COLUP0	CCCC	LLLX	Colour / Luminance player 0, playfield (PF) score left
\$07	COLUP1	CCCC	LLLX	Colour / Luminance player 1, playfield (PF) score right
\$08	COLUPF	cccc	LLLX	Colour / Luminance playfield (PF), ball (BL)
\$09	COLUBK	cccc	LLLX	Colour / Luminance background

DOCUMENT INFORMATION

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