

MORPH Album1 Whitepaper

<http://www.faceaginggroup.com>

Album1 contains scanned photographs of 1,690 images from 515 individuals taken between October 26, 1962 and April 7, 1998. The images are 8-bit grayscale portable gray map (PGM) formatted, scanned with a consumer-grade scanner. Beyond the scan, minimal enhancement was employed for artifact minimization with median filtering and contrast stretching via histogram equalization. Figures 1 and 2 show three sample sets of these images, where aging is most evident. The age of images from the first photograph in Album1 ranges from 46 days to 29 years. The individuals range in age from 15 to 68 years.

Table A. Album1: Number of Facial Images by Gender and Ancestry (n=1,690)

	African	European	“Other”	Total
Male	1,037	365	3	1,405
Female	216	69	0	285
Total	1,253	434	3	1,690

Table B. Album1: Number of Additional Images per Subject

	1	2	3	4+	Total
Male	526	297	71	10	904
Female	108	62	14	2	186
Total	634	359	85	12	1,090






Table C. Album1: Number of Facial Images by Gender and Decade-of-Life (n=1690)

	< 18	18 - 29	30-39	40-49	50+	Total
Male	142	803	345	93	22	1,405
Female	15	182	70	18	0	285
Total	157	985	415	111	22	1,690

Table 1. Album1: Metadata Details

Subject Identifier	Date of Birth (mm/dd/yyyy)
Picture Identifier (beginning at 0 for each subject)	Image Date (mm/dd/yyyy)
Race (African-American, Black, White, Other)	Facial Hair Flag
Age Difference (years & months since last image)	Glasses Flag
Image Filename (ID_[picture_id][M/F][Age].JPG)	Gender (Male / Female)

Figure 1. Album1: Sample Image Progression for African-American Male

African-American/Black		Male		DOB: 6/29/1959	
0	1	2	4	5	
					
Jun 1977	Sept 1979	Jun 1985	Jul 1991	May 1996	
17	20	25	32	36	