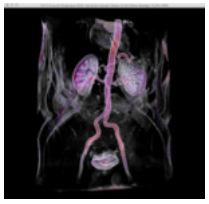
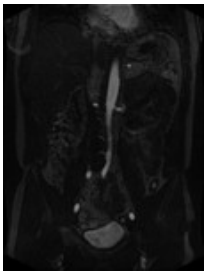
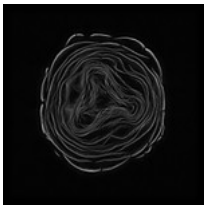
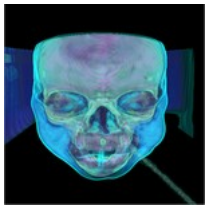
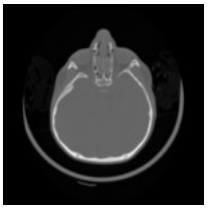
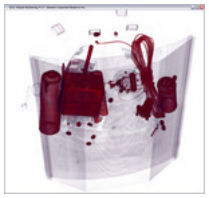
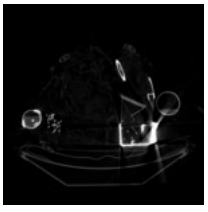
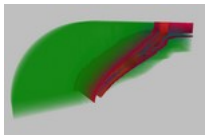
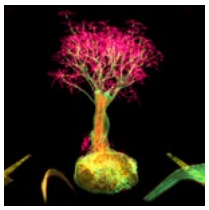
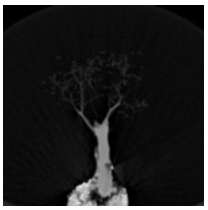
The Volume Library

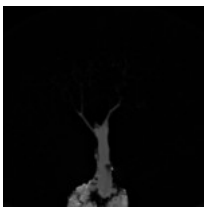
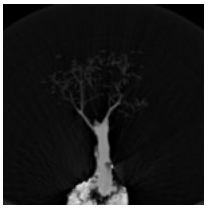
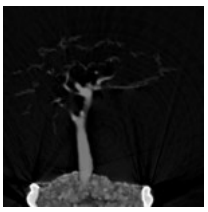
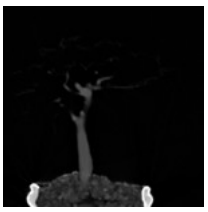
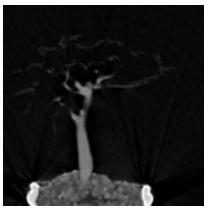
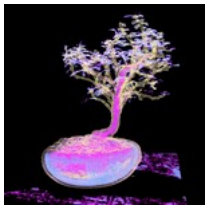
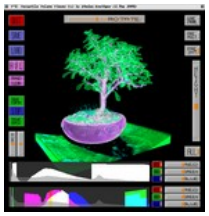
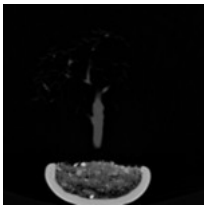
The intention of the library is to provide volume datasets for scientists involved with volume visualization and rendering. Commercial use is prohibited and no warranty whatsoever is expressed.

The datasets contain regular volume data mainly coming from CT or MRI scanners. The data is stored in the PVM format which contains information about the grid size, bit depth, and the cell spacing of a dataset. Optionally it may also contain a dataset description, courtesy information, the type of the scanner and a comment. This information and the raw data can be extracted easily using the PVM tools distributed with the V^3 volume rendering package available at my home page. Just download the V^3 package, unzip it, type "build.sh tools" in a Linux shell and use the pvm2raw utility in the tools folder to extract the raw data.

Please understand that only the **unmodified** PVM datasets are allowed to be redistributed. Otherwise we cannot guarantee that the credits are given properly and that no information is lost. If you want to make corrections or amendments (i.e. courtesy, scanner type, date of acquisition, etc.) or want to publish your own data in the library, please do not hesitate to contact me:

stefan@stereofx.org

Dataset	Cross-Section	Description	Dimensions Bits [Aspect] Checksum	
		Download (7608kb) .sav	384x512x80 8 bit 0.974019/0.974655/1.48125 0C16BF8F	Georg-Simon-Ohm Univers http://wik
Artischocke		Download (3152kb)	256x256x104 8 bit 0.583649/0.583649/1.00586 C4A176F2	Stefan Ro Georg-Simon-Ohm Univers http://wik
		Baby Head Download (1844kb) .sav	256x256x98 8 bit 311D75D8	Distribut
		Download (20436kb)	512x512x373 8 bit 0.9766/0.9766/1.25 BD3512BD	
		Blunt Fin Download (196kb) .sav	256x128x64 8 bit 1/0.75/1 31FA79A8	NASA Advanc http://www.nas.nas
		Bonsai #1 non-linear quantized version Download (22384kb) .sav	512x512x182 8 bit 0.585938/0.585938/1 4D9DEE6A	Computer Graphics (http://ww

		Bonsai #1 linear quantized version Download (10356kb) .sav	512x512x182 8 bit 0.585938/0.585938/1 23D5981D	Computer Graphics (http://wwv
		Bonsai #1 Download (24508kb)	512x512x182 16 bit 0.585938/0.585938/1 AF985501	Computer Graphics (http://wwv
		Bonsai #2 non-linear quantized version Download (17000kb) .sav	512x512x189 8 bit 0.402344/0.402344/1 865F7616	Computer Graphics (http://wwv
		Bonsai #2 linear quantized version Download (9736kb) .sav	512x512x189 8 bit 0.402344/0.402344/1 AF0BDAC8	Computer Graphics (http://wwv
		Bonsai #2 Download (22416kb)	512x512x189 16 bit 0.402344/0.402344/1 A84386C0	Computer Graphics (http://wwv
		Bonsai #3 non-linear quantized version Download (12824kb) .sav	512x512x154 8 bit 0.402344/0.402344/1 8487BBB5	Computer Graphics (http://wwv
		Bonsai #3 linear quantized version Download (7944kb) .sav	512x512x154 8 bit 0.402344/0.402344/1 48FA5E11	Computer Graphics (http://wwv
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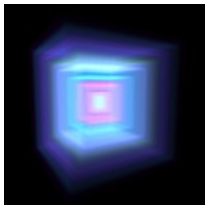
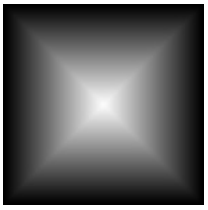
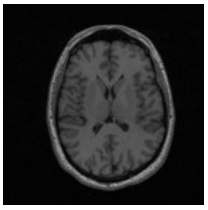
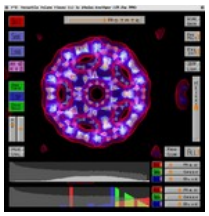
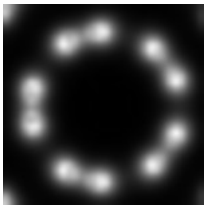
		Solid Box Download (16kb) .sav	64x64x64 8 bit 07F7C3E4	Computer Graphics (http://ww
		Bruce Gooch's Brain Download (7444kb) .sav	256x256x156 16 bit 7E53970E	Univers http://www.cs.u
		Bucky Ball Download (24kb) .sav	32x32x32 8 bit 102CDE9F	
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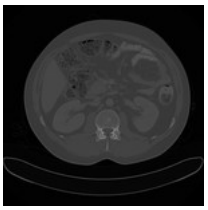
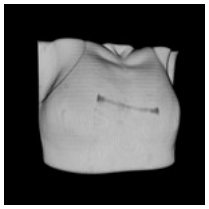
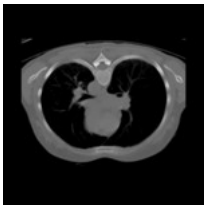
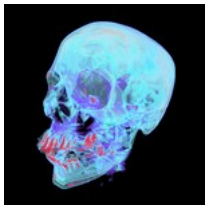
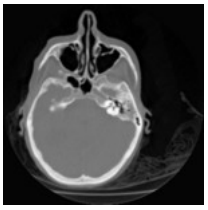
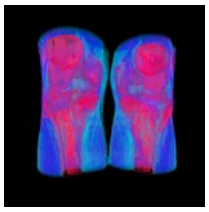
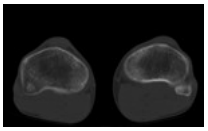
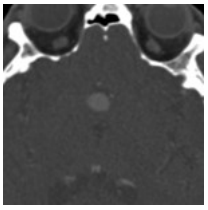
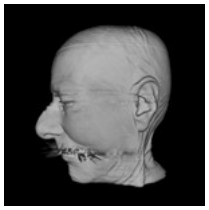
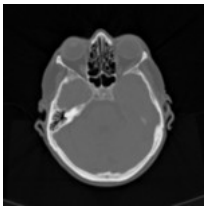
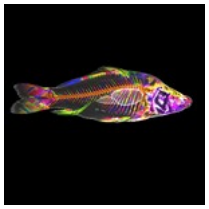
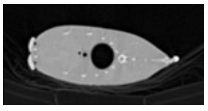
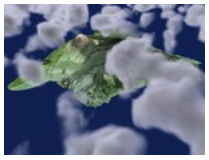
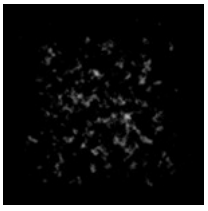
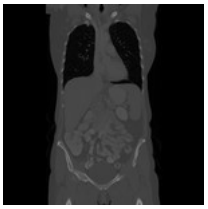
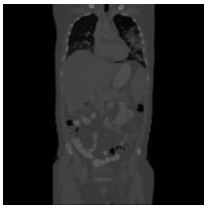
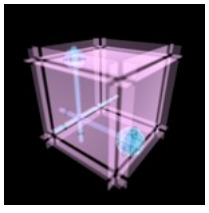
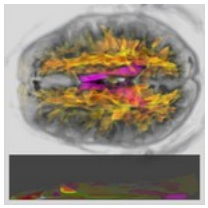
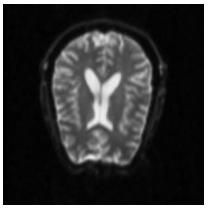
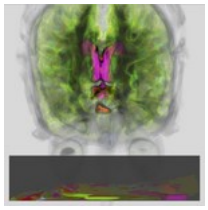
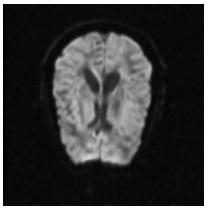
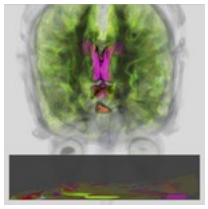
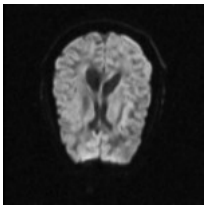
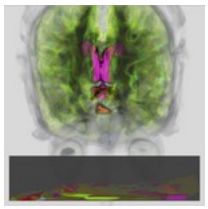
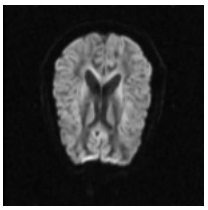
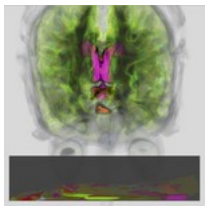
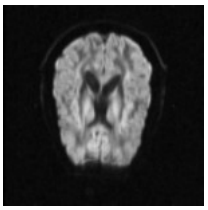
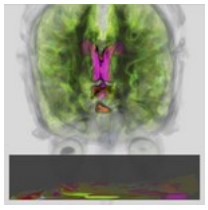
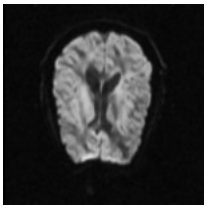
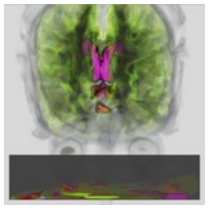
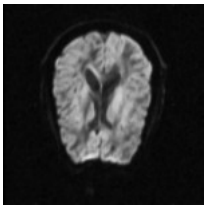
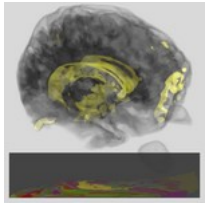
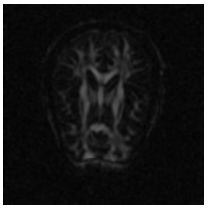
CT-Abdomen		Download (23992kb)	512x512x147 8 bit 0.779724/0.779724/4.96599 AAAA125E	Stefan R Georg-Simon-Ohm Univers http://wik
		Female Chest Download (7104kb) .sav	384x384x240 8 bit AB7D36C1	Department http://rad

		Chapel Hill CT Head Download (5616kb) .sav	256x256x113 16 bit 0.95/1/1.8878 5728224B	Computer Graphics http://gr Provided courtesy
		Knee with anterior tibial osteotomy Download (7316kb) .sav	379x229x305 8 bit 8D6A4540	Department http://rad
		CTA Head with Aneurysm Download (9692kb) .sav	512x512x120 8 bit 0.214844/0.214844/0.5 39317391	Division of Neurorad http://www.neu
		Cadaver Head Download (16480kb) .sav	512x512x106 16 bit 0.435547/0.435547/2 02C1D792	Computer Graphics h
		The Carp Download (19864kb) .sav	256x256x512 16 bit 0.78125/0.390625/1 AEB61B35	Computer Graphics h
		Artificial Clouds Download (836kb)	512x512x32 8 bit 743C02CB	Computer Graphics http://wwv
Coronal-fem		Download (2756kb)	512x512x44 8 bit 1.27992/1.27992/4.88636 0564C110	Stefan Ro Georg-Simon-Ohm Univers http://wik
Coronal-mal		Download (3636kb)	512x512x59 8 bit 1.35906/1.35906/2.94915 503F9522	Stefan Ro Georg-Simon-Ohm Univers http://wik
		Crossed Rods Download (12kb) .sav	64x64x64 8 bit 8724C5A0	Computer Graphics h

		DTI Scan Download (716kb) .sav	128x128x58 16 bit 4977B2FE	http:/
		DTI Scan Download (580kb)	128x128x58 16 bit 424F4A19	http:/
		DTI Scan Download (580kb)	128x128x58 16 bit AAB49B39	http:/
		DTI Scan Download (580kb)	128x128x58 16 bit 488DAC6A	http:/
		DTI Scan Download (576kb)	128x128x58 16 bit EFA22F4E	http:/
		DTI Scan Download (584kb)	128x128x58 16 bit 11743FB5	http:/
		DTI Scan Download (584kb)	128x128x58 16 bit FF48D5B6	http:/
		DTI Scan Download (648kb)	128x128x58 8 bit E62446AC	Computer Graphics (http://wwv
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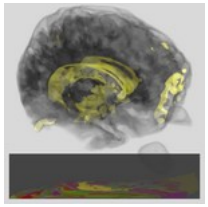
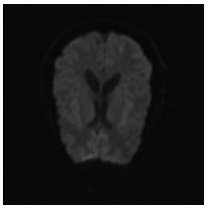
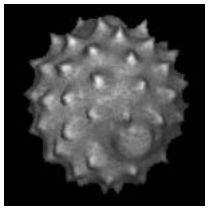
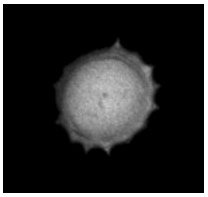
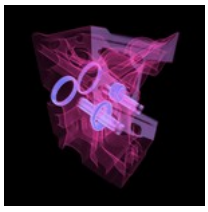
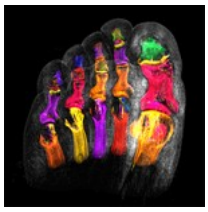
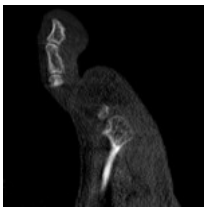
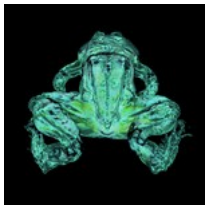
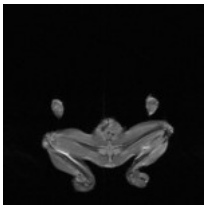
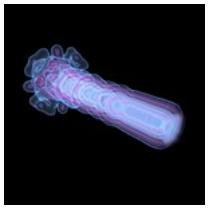
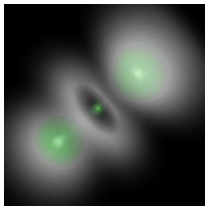
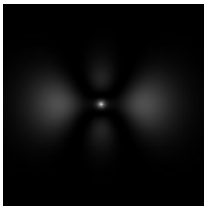
		Download (364kb)	8 bit 7F461F36	Computer Graphics (http://ww
		Daisy Pollen Grain Download (568kb) .sav	192x180x168 8 bit 745EFA2F	Computer Science In
		Engine Block Download (2900kb) .sav	256x256x256 8 bit E786CB95	G
		Foot Download (4592kb) .sav	256x256x256 8 bit 4FAD56F0	Philips R http://v
		Frog Download (1652kb) .sav	256x256x44 8 bit 0.5/0.5/1 B2E8D2C2	Information and Computing Scie ht
		Fuel Injection Download (12kb) .sav	64x64x64 8 bit 282902A6	SFB 382 of the
		Hydrogen Atom Download (196kb) .sav	128x128x128 8 bit 4A792245	SFB 382 of the
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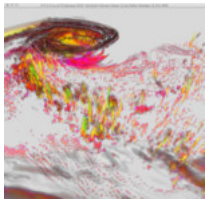
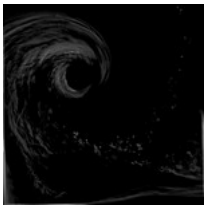
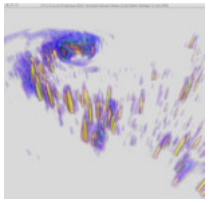
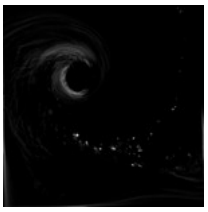
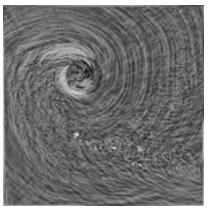
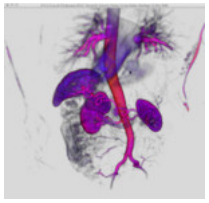
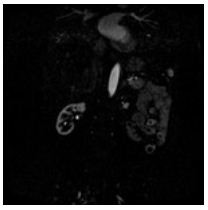
		.sav	4462EA24	of the U.S. National Cente U.S. National Scie http://ww
		Download (5772kb) .sav	500x500x100 16 bit 4/4/3 5039AFFF	Hurricane Isabel conv Georg-Simon-Ohm Univers http://wik The Weather Research and Forecas was kindly provided by Bill Kuo, Wei of the U.S. National Cente U.S. National Scie http://ww
Isabel-Upwind		Download (32548kb)	500x500x100 16 bit 4/4/3 C9695DDD	Hurricane Isabel conv Georg-Simon-Ohm Univers http://wik The Weather Research and Forecas was kindly provided by Bill Kuo, Wei of the U.S. National Cente U.S. National Scie http://ww
		Download (8384kb) .sav	384x384x96 8 bit 1.0909/1.0909/0.989583 B23A8009	Georg-Simon-Ohm Univers http://wik
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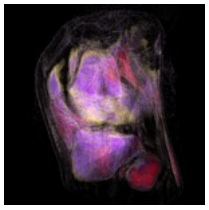
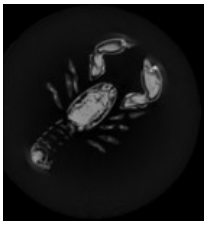
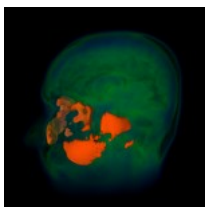
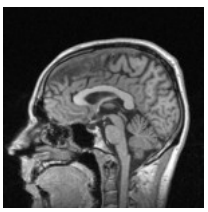
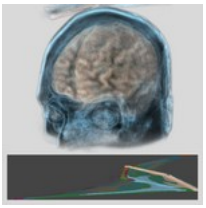
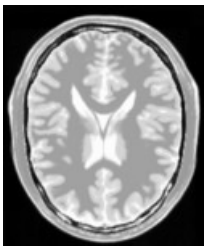
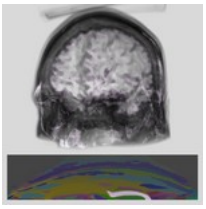
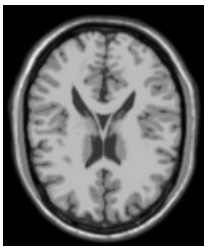
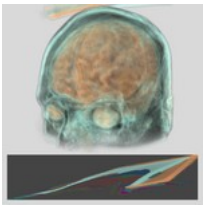
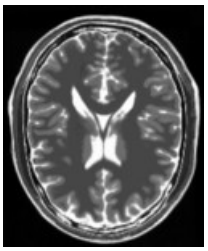
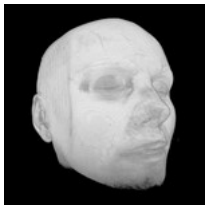
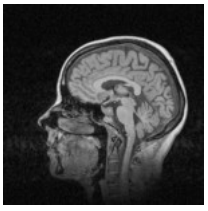
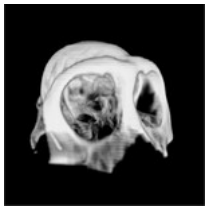
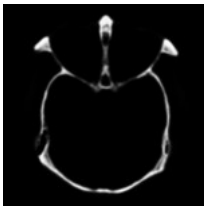
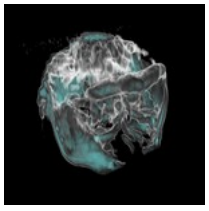
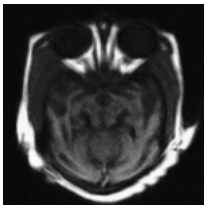
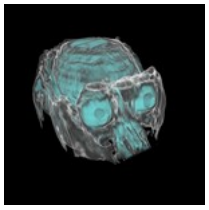
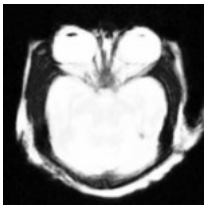
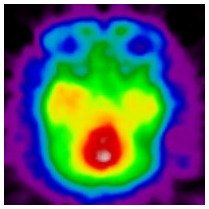
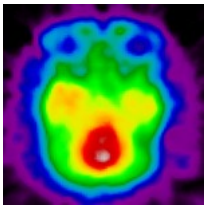
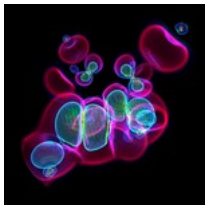
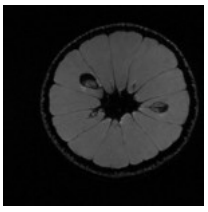
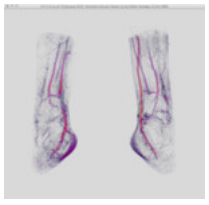
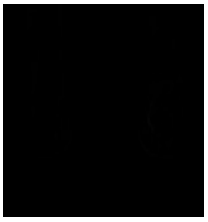
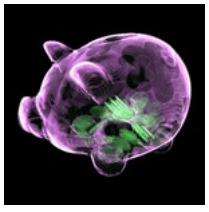
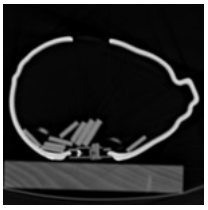
		Knee Download (26040kb) .sav	512x512x87 16 bit 0.25/0.25/1.5 21D925AD	Brigham and Women http:/
		Lobster Download (1908kb) .sav	301x324x56 8 bit 1/1/1.4 CFCD4D44	VolVis distributio h
		MRI Head Download (13412kb) .sav	256x256x256 8 bit 1/1/0.8 3396D681	Computer Graphics h

		MRI Phantom Download (7420kb)	181x217x181 16 bit 19FB5371	McCor Montreal Neuro http://www.
		MRI Phantom Download (6656kb) .sav	181x217x181 16 bit 3AB8A09B	McCor Montreal Neuro http://www.
		MRI Phantom Download (7648kb)	181x217x181 16 bit DEFC2412	McCor Montreal Neuro http://www.
		MRI Woman Download (7788kb) .sav	256x256x109 16 bit 1/1/1.5 EA3A8842	Siemens Medi
		Registered Monkey Head (CT) Download (540kb) .sav	256x256x62 8 bit 55513E1F	Laboratory http://www.
		Registered Monkey Head (MRI T1) Download (2160kb) .sav	256x256x62 8 bit E0DAD1AC	Laboratory http://www.
		Registered Monkey Head (MRI T2) Download (1724kb) .sav	256x256x62 8 bit 2D7656C6	Laboratory http://www.

		Registered Monkey Head (PET) Download (3340kb)	256x256x62 RGB 100FE261	Laboratory http://www.
		Neghip Download (68kb) .sav	64x64x64 8 bit 42A8A6EF	VolVis distributi h
		Orange Download (2480kb) .sav	256x256x64 8 bit 0.390625/0.390625/1 3CA3D462	Bill Information and Computing Scie h
		Download (1060kb) .sav	480x512x64 8 bit 0.70166/0.701752/0.885938 DCF08EE7	Georg-Simon-Ohm Univers http://wik
		Piggy Bank Download (16516kb) .sav	512x512x134 16 bit 0.371094/0.371094/1 E0EF8A00	Computer Graphics h
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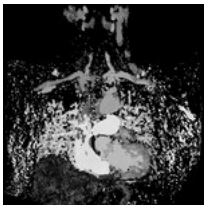
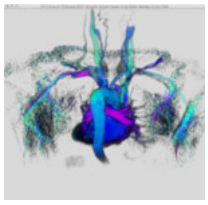
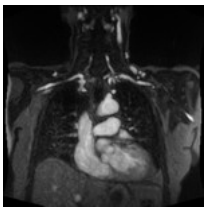
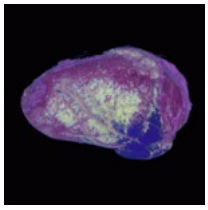
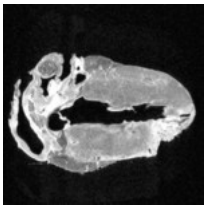
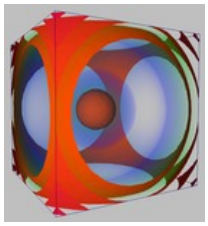
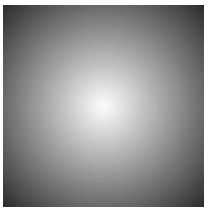
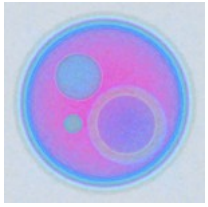
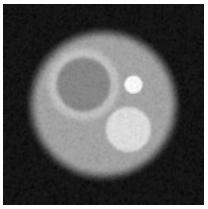
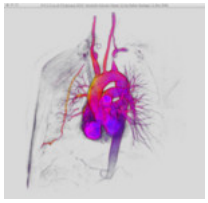
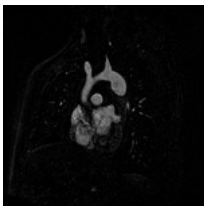
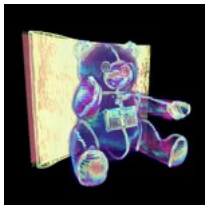
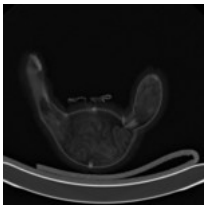
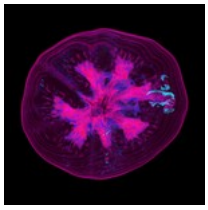
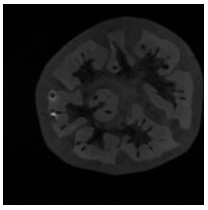
				
		Download (4152kb) .sav	320x320x72 16 bit 1.25/1.25/1.85 29A40E5E	Georg-Simon-Ohm Univers http://wik
		Sheep Heart Download (18772kb) .sav	352x352x256 8 bit FC68B74E	Center for In-Vivo Micros http:/
		Spherical Distance Volume Download (68kb)	64x64x64 8 bit DF219C08	Computer Graphics (http://ww
		Test Spheres Download (1596kb) .sav	128x128x128 8 bit 4817C587	Computer Graphics (http://ww
		Download (14408kb) .sav	512x512x96 8 bit 0.779724/0.779724/0.791667 FEB03210	Georg-Simon-Ohm Univers http://wik
		Teddy Bear Download (8856kb) .sav	512x512x63 16 bit 0.693359/0.693359/5 5F420124	Division of Neurorad http://www.ne
		Tomato Download (2292kb) .sav	256x256x64 8 bit 0.390625/0.390625/1 9872930A	Bill Information and Computing Scie h
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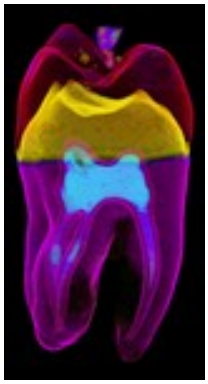
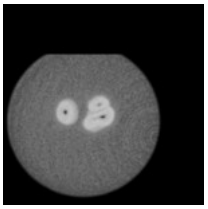
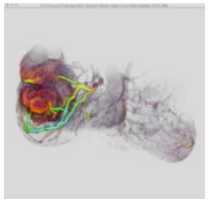
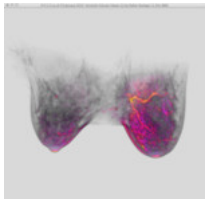
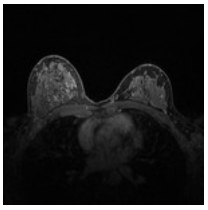
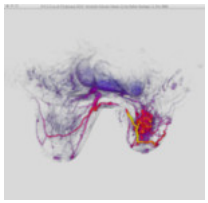
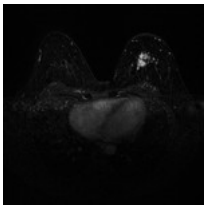
		Download (4540kb) .sav	16 bit 64E45893	GE Aircraft
		Download (7684kb) .sav	448x448x208 8 bit 0.712691/0.712691/0.796154 AD7982A4	Georg-Simon-Ohm Univers http://wik
		Download (16964kb) .sav	448x448x160 8 bit 0.645876/0.645876/0.944063 EDE5D510	Georg-Simon-Ohm Univers http://wik
		Download (17072kb) .sav	448x448x160 16 bit 946A9B34	Georg-Simon-Ohm Univers http://wik
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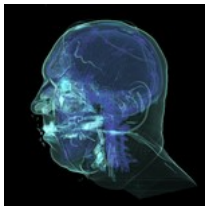
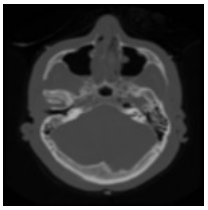
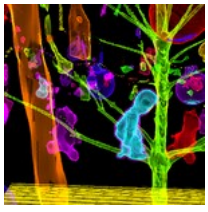
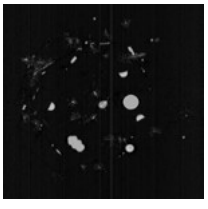
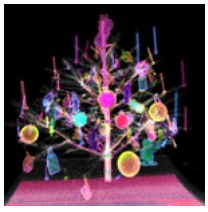
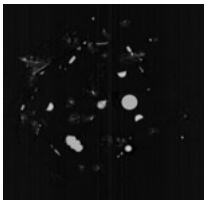
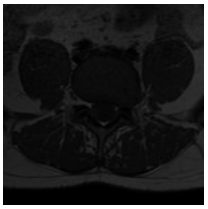
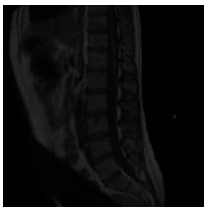
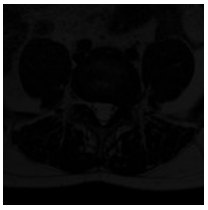
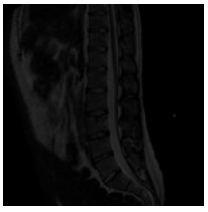
		Head (Visible Male) Download (2792kb) .sav	128x256x256 8 bit 1.57774/0.995861/1.00797 26B44CE6	National Library of Me ht
		The XMasTree lores version Download (10096kb) .sav	256x249x256 16 bit 2720D16E	The CT-dataset XMasTree v by the Department of Rad of Computer Graphics and http://ringlotte.cg.tuwie
		The XMasTree Download (72236kb)	512x499x512 16 bit BBE684C1	The CT-dataset XMasTree v by the Department of Rad of Computer Graphics and http://ringlotte.cg.tuwie

Zukic_Dzenan_T1		MR T1 Scan Download (624kb)	256x256x24 8 bit 0.661469/0.661469/5.21949 61201BA3	
Zukic_Dzenan_T1SAG		MR T1 Sagittal Scan Download (948kb)	512x512x12 8 bit 0.682259/0.682259/4.03333 9C968709	
Zukic_Dzenan_T2		MR T2 Scan Download (1336kb)	432x432x24 8 bit 0.392608/0.392608/5.21949 33C61676	
Zukic_Dzenan_T2SAG		MR T2 Sagittal Scan Download (1280kb)	640x640x12 8 bit 0.546021/0.546021/4.03333 A04FC330	

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