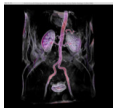
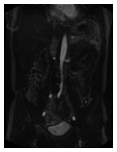
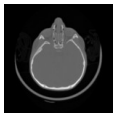
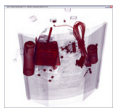
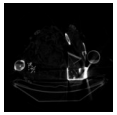
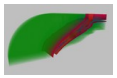
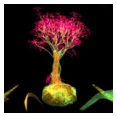
The Volume Library

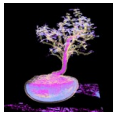
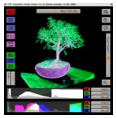
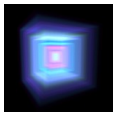
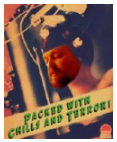
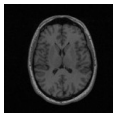
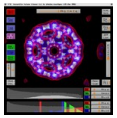
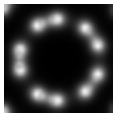
The intention of the library is to provide volume datasets for scientists involved with volume visualization and rendering. Commercial use is prohibited and no warranty whatsoever is expressed.

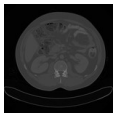
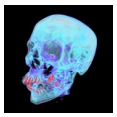
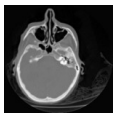
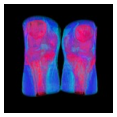
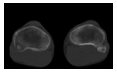
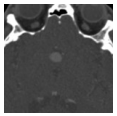
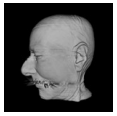
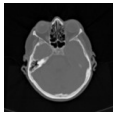
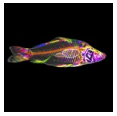
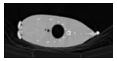
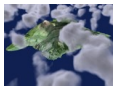
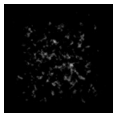
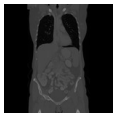
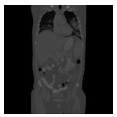
The datasets contain regular volume data mainly coming from CT or MRI scanners. The data is stored in the PVM format which contains information about the grid size, bit depth, and the cell spacing of a dataset. Optionally it may also contain a dataset description, courtesy information, the type of the 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.

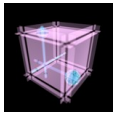
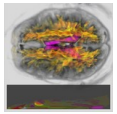
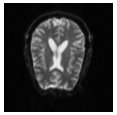
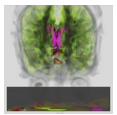
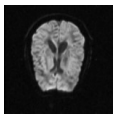
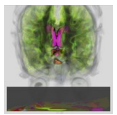
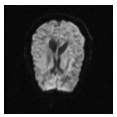
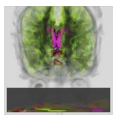
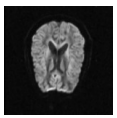
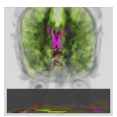
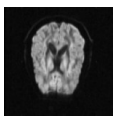
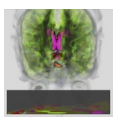
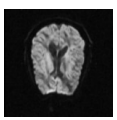
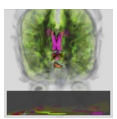
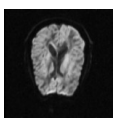
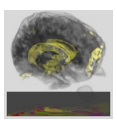
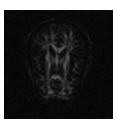
Please understand that only the **unmodified** PVM datasets are allowed to be redistributed. Otherwise we cannot guarantee that the credits are given properly and that no information is lost. If you want to make corrections or amendments (i.e. courtesy, scanner type, date of acquisition, etc.) or want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

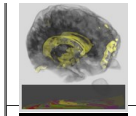
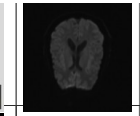
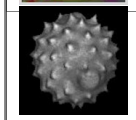
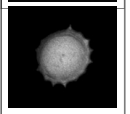
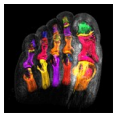
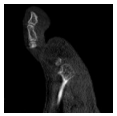
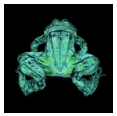
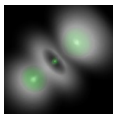
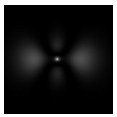
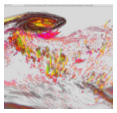
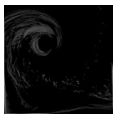
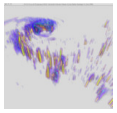
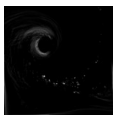
stefan@stereofx.org

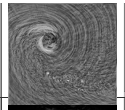
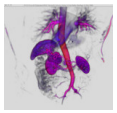
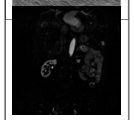
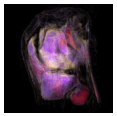
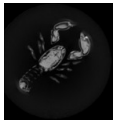
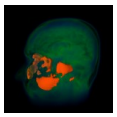
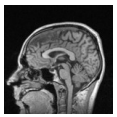
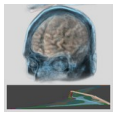
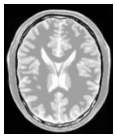
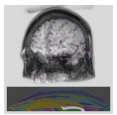
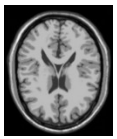
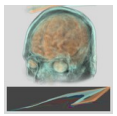
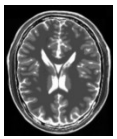
Dataset	Cross-Section	Description	Dimensions Bits [Aspect] Checksum	Credits	Scanning Parameters	Additional Comments
		Download (7608kb) .sav	384x512x80 8 bit 0.974019/0.974655/1.48125 0C16BF8F	Stefan Roettger Georg-Simon-Ohm University of Applied Sciences, Nuremberg, Germany http://wiki.ohm-hochschule.de/roettger		
Artischocke		Download (3152kb)	256x256x104 8 bit 0.583649/0.583649/1.00586 C4A176F2	Stefan Roettger & Florian Steinmeyer Georg-Simon-Ohm University of Applied Sciences, Nuremberg, Germany http://wiki.ohm-hochschule.de/roettger		
		Baby Head Download (1844kb) .sav	256x256x98 8 bit 311D75D8	Distributed with the VolSuite package	CT Scan	Jason Bryan is the developer and maintainer of VolSuite. Feel free to email him with questions or comments about the software: jbryan at osc dot edu
		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 Advanced Supercomputing Division, USA http://www.nas.nasa.gov/Research/Datasets/datasets.html	Resampled from original unstructured tetrehedral grid	
		Bonsai #1 non-linear quantized version Download (22384kb) .sav	512x512x182 8 bit 0.585938/0.585938/1 4D9DEE6A	Stefan Roettger Computer Graphics Group, University of Erlangen, Germany http://www9.cs.fau.de/Persons/Roettger	CT Scan with Contrast Dye Siemens Somatom Plus 4 16.Oct.1999 Thanks to Bernd Tomandl	
		Bonsai #1 linear quantized version Download (10356kb) .sav	512x512x182 8 bit 0.585938/0.585938/1 23D5981D	Stefan Roettger Computer Graphics Group, University of Erlangen, Germany http://www9.cs.fau.de/Persons/Roettger	CT Scan with Contrast Dye Siemens Somatom Plus 4 16.Oct.1999 Thanks to Bernd Tomandl	
		Bonsai #1 Download (24508kb)	512x512x182 16 bit 0.585938/0.585938/1 AF985501	Stefan Roettger Computer Graphics Group, University of Erlangen, Germany http://www9.cs.fau.de/Persons/Roettger	CT Scan with Contrast Dye Siemens Somatom Plus 4 16.Oct.1999 Thanks to Bernd Tomandl	
		Bonsai #2 non-linear quantized version Download (17000kb) .sav	512x512x189 8 bit 0.402344/0.402344/1 865F7616	Stefan Roettger Computer Graphics Group, University of Erlangen, Germany http://www9.cs.fau.de/Persons/Roettger	CT Scan with Contrast Dye Siemens Somatom Plus 4 16.Oct.1999 Thanks to Bernd Tomandl	

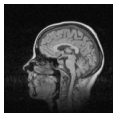
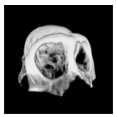
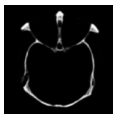
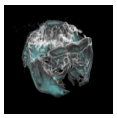
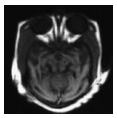
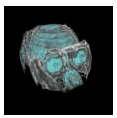
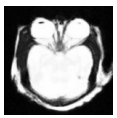
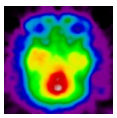
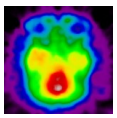
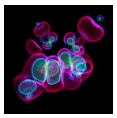
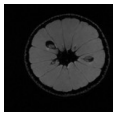
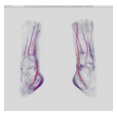
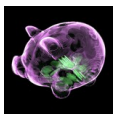
		Bonsai #2 linear quantized version Download (9736kb) .sav	512x512x189 8 bit 0.402344/0.402344/1 AF0BDAC8	Stefan Roettger Computer Graphics Group, University of Erlangen, Germany http://www9.cs.fau.de/Persons/Roettger	CT Scan with Contrast Dye Siemens Somatom Plus 4 16.Oct.1999 Thanks to Bernd Tomandl	
		Bonsai #2 Download (22416kb)	512x512x189 16 bit 0.402344/0.402344/1 A84386C0	Stefan Roettger Computer Graphics Group, University of Erlangen, Germany http://www9.cs.fau.de/Persons/Roettger	CT Scan with Contrast Dye Siemens Somatom Plus 4 16.Oct.1999 Thanks to Bernd Tomandl	
		Bonsai #3 non-linear quantized version Download (12824kb) .sav	512x512x154 8 bit 0.402344/0.402344/1 8487BBB5	Stefan Roettger Computer Graphics Group, University of Erlangen, Germany http://www9.cs.fau.de/Persons/Roettger	CT Scan with Contrast Dye Siemens Somatom Plus 4 16.Oct.1999 Thanks to Bernd Tomandl	Bonsai from IEEE Visualization '00 Conference
		Bonsai #3 linear quantized version Download (7944kb) .sav	512x512x154 8 bit 0.402344/0.402344/1 48FA5E11	Stefan Roettger Computer Graphics Group, University of Erlangen, Germany http://www9.cs.fau.de/Persons/Roettger	CT Scan with Contrast Dye Siemens Somatom Plus 4 16.Oct.1999 Thanks to Bernd Tomandl	Bonsai from IEEE Visualization '00 Conference
		Bonsai #3 Download (18428kb)	512x512x154 16 bit 0.402344/0.402344/1 415A4E0A	Stefan Roettger Computer Graphics Group, University of Erlangen, Germany http://www9.cs.fau.de/Persons/Roettger	CT Scan with Contrast Dye Siemens Somatom Plus 4 16.Oct.1999 Thanks to Bernd Tomandl	Bonsai from IEEE Visualization '00 Conference
		Solid Box Download (16kb) .sav	64x64x64 8 bit 07F7C3E4	Stefan Roettger Computer Graphics Group, University of Erlangen, Germany http://www9.cs.fau.de/Persons/Roettger	Artificial	Test dataset containing a solid box
		Bruce Gooch's Brain Download (7444kb) .sav	256x256x156 16 bit 7E53970E	Bruce Gooch University of Utah, Salt Lake City http://www.cs.utah.edu/~bgooch/BruceBrain.html	FMRI scans taken at an undisclosed location in the University of Utah research park July 13th, 2001	The scans were taken as part of an arcane research project by a buddy of mine named Jim Lee. Jim also provided the Matlab scripts you can use to view the MRI data. I am making the data freely available with the following caveats: 1: If you publish a scientific paper with an image created using my MRI data you will mention that the image was created using the "Bruce Gooch's Brain" data sets. 2: If you create a really cool image of my brain you will email me a copy of it. I will post all such images on this site. Thank You, and happy computing. Bruce Gooch June 12, 2001
		Bucky Ball Download (24kb) .sav	32x32x32 8 bit 102CDE9F	AVS, USA http://www.avs.com	Simulation of the electron density of a Buckminster-Fullerene	
		Stanford Bunny Download (64956kb) .sav	512x512x361 16 bit 0.337891/0.337891/0.5 F9A197D4	Terry Yoo High Performance Computing and Communications, National Library of Medicine, USA mailto:yoo@nlm.nih.gov	CT Scan 28.Jan.2000	This is a CT scan of the terracotta Stanford Bunny. Three hundred sixty-one files comprise the bunny. The scale of the voxel data is 0.337891 mm x 0.337891 mm x 0.5mm in the x-, y-, and z-dimensions respectively. The greyscale units are Hounsfield units, denoting electron-density of the subject. The data is raw 512x512 slices, unsigned, 12 bit data stored as 16bit (2-byte) pixels. The scan was completed 28 January 2000. Many many thanks to Geoff Rubin who helped me to scan the data, Sandy Napel who coordinated the scan and helped to process the data, and Marc Levoy who graciously provided the subject. Geoff and Sandy are with Stanford Radiology, and Marc is with Stanford Computer Science.

						Dataset contact info: Terry S. Yoo High Performance Computing and Communications yoo@nlm.nih.gov National Library of Medicine National Institutes of Health
CT-Abdomen		Download (23992kb)	512x512x147 8 bit 0.779724/0.779724/4.96599 AAAA125E	Stefan Roettger & Florian Steinmeyer Georg-Simon-Ohm University of Applied Sciences, Nuremberg, Germany http://wiki.ohm-hochschule.de/roettger		
		Female Chest Download (7104kb) .sav	384x384x240 8 bit AB7D36C1	Department of Radiology, University of Iowa http://radiology.uiowa.edu/downloads	CT Scan	
		Chapel Hill CT Head Download (5616kb) .sav	256x256x113 16 bit 0.95/1/1.8878 5728224B	Marc Levoy Computer Graphics Laboratory, Stanford University, USA http://graphics.stanford.edy/~levoy Provided courtesy of North Carolina Memorial Hospital	CT Study of a Female Cadaver Head General Electric CT Scanner	
		Knee with anterior tibial osteotomy Download (7316kb) .sav	379x229x305 8 bit 8D6A4540	Department of Radiology, University of Iowa http://radiology.uiowa.edu/downloads	CT-Scan	
		CTA Head with Aneurysm Download (9692kb) .sav	512x512x120 8 bit 0.214844/0.214844/0.5 39317391	Division of Neuroradiology, University of Erlangen, Germany http://www.neuroradiologie.med.uni-erlangen.de	CTA Scan	EBE CTA 1 dataset
		Cadaver Head Download (16480kb) .sav	512x512x106 16 bit 0.435547/0.435547/2 02C1D792	Computer Graphics Group, University of Erlangen, Germany http://www9.cs.fau.de	CT Scan	The cadaver head is famous for the scanning artifacts originating at the teeth
		The Carp Download (19864kb) .sav	256x256x512 16 bit 0.78125/0.390625/1 AEB61B35	Michael Scheuring Computer Graphics Group, University of Erlangen, Germany http://www9.cs.fau.de	CT Scan	The Carp is a seasonal delicacy in Frankonia, Germany
		Artificial Clouds Download (836kb)	512x512x32 8 bit 743C02CB	Stefan Roettger Computer Graphics Group, University of Erlangen, Germany http://www9.cs.fau.de/Persons/Roettger	Artifical dataset generated with 3D Perlin Noise	
Coronal-fem		Download (2756kb)	512x512x44 8 bit 1.27992/1.27992/4.88636 0564C110	Stefan Roettger & Florian Steinmeyer Georg-Simon-Ohm University of Applied Sciences, Nuremberg, Germany http://wiki.ohm-hochschule.de/roettger		
Coronal-mal		Download (3636kb)	512x512x59 8 bit 1.35906/1.35906/2.94915 503F9522	Stefan Roettger & Florian Steinmeyer Georg-Simon-Ohm University of Applied Sciences, Nuremberg, Germany http://wiki.ohm-hochschule.de/roettger		
		Crossed Rods Download (12kb) .sav	64x64x64 8 bit 8724C5A0	Ove Sommer Computer Graphics Group, University of Erlangen, Germany http://www9.cs.fau.de	Artificial	Test dataset containing several crossed rods, balls and platters Rods are placed like coordinate axes to verify correct orientation

						
		DTI Scan Download (716kb) .sav	128x128x58 16 bit 4977B2FE	Pierre Fillard http://www.cs.unc.edu/~fillard	Diffusion Tensor MRI Scan Series	B0 = lores MRI scan (no diffusion weighting) B1 = diffusion weighted volume #1 with dir=(1,0,1) B2 = diffusion weighted volume #2 with dir=(-1,0,1) B3 = diffusion weighted volume #3 with dir=(0,1,1) B4 = diffusion weighted volume #4 with dir=(0,1,-1) B5 = diffusion weighted volume #5 with dir=(1,1,0) B6 = diffusion weighted volume #6 with dir=(-1,1,0) MD = mean diffusion FA = fractional anisotropy
		DTI Scan Download (580kb)	128x128x58 16 bit 424F4A19	Pierre Fillard http://www.cs.unc.edu/~fillard	Diffusion Tensor MRI Scan Series	B0 = lores MRI scan (no diffusion weighting) B1 = diffusion weighted volume #1 with dir=(1,0,1) B2 = diffusion weighted volume #2 with dir=(-1,0,1) B3 = diffusion weighted volume #3 with dir=(0,1,1) B4 = diffusion weighted volume #4 with dir=(0,1,-1) B5 = diffusion weighted volume #5 with dir=(1,1,0) B6 = diffusion weighted volume #6 with dir=(-1,1,0) MD = mean diffusion FA = fractional anisotropy
		DTI Scan Download (580kb)	128x128x58 16 bit AAB49B39	Pierre Fillard http://www.cs.unc.edu/~fillard	Diffusion Tensor MRI Scan Series	B0 = lores MRI scan (no diffusion weighting) B1 = diffusion weighted volume #1 with dir=(1,0,1) B2 = diffusion weighted volume #2 with dir=(-1,0,1) B3 = diffusion weighted volume #3 with dir=(0,1,1) B4 = diffusion weighted volume #4 with dir=(0,1,-1) B5 = diffusion weighted volume #5 with dir=(1,1,0) B6 = diffusion weighted volume #6 with dir=(-1,1,0) MD = mean diffusion FA = fractional anisotropy
		DTI Scan Download (580kb)	128x128x58 16 bit 488DAC6A	Pierre Fillard http://www.cs.unc.edu/~fillard	Diffusion Tensor MRI Scan Series	B0 = lores MRI scan (no diffusion weighting) B1 = diffusion weighted volume #1 with dir=(1,0,1) B2 = diffusion weighted volume #2 with dir=(-1,0,1) B3 = diffusion weighted volume #3 with dir=(0,1,1) B4 = diffusion weighted volume #4 with dir=(0,1,-1) B5 = diffusion weighted volume #5 with dir=(1,1,0) B6 = diffusion weighted volume #6 with dir=(-1,1,0) MD = mean diffusion FA = fractional anisotropy
		DTI Scan Download (576kb)	128x128x58 16 bit EFA22F4E	Pierre Fillard http://www.cs.unc.edu/~fillard	Diffusion Tensor MRI Scan Series	B0 = lores MRI scan (no diffusion weighting) B1 = diffusion weighted volume #1 with dir=(1,0,1) B2 = diffusion weighted volume #2 with dir=(-1,0,1) B3 = diffusion weighted volume #3 with dir=(0,1,1) B4 = diffusion weighted volume #4 with dir=(0,1,-1) B5 = diffusion weighted volume #5 with dir=(1,1,0) B6 = diffusion weighted volume #6 with dir=(-1,1,0) MD = mean diffusion FA = fractional anisotropy
		DTI Scan Download (584kb)	128x128x58 16 bit 11743FB5	Pierre Fillard http://www.cs.unc.edu/~fillard	Diffusion Tensor MRI Scan Series	B0 = lores MRI scan (no diffusion weighting) B1 = diffusion weighted volume #1 with dir=(1,0,1) B2 = diffusion weighted volume #2 with dir=(-1,0,1) B3 = diffusion weighted volume #3 with dir=(0,1,1) B4 = diffusion weighted volume #4 with dir=(0,1,-1) B5 = diffusion weighted volume #5 with dir=(1,1,0) B6 = diffusion weighted volume #6 with dir=(-1,1,0) MD = mean diffusion FA = fractional anisotropy
		DTI Scan Download (584kb)	128x128x58 16 bit FF48D5B6	Pierre Fillard http://www.cs.unc.edu/~fillard	Diffusion Tensor MRI Scan Series	B0 = lores MRI scan (no diffusion weighting) B1 = diffusion weighted volume #1 with dir=(1,0,1) B2 = diffusion weighted volume #2 with dir=(-1,0,1) B3 = diffusion weighted volume #3 with dir=(0,1,1) B4 = diffusion weighted volume #4 with dir=(0,1,-1) B5 = diffusion weighted volume #5 with dir=(1,1,0) B6 = diffusion weighted volume #6 with dir=(-1,1,0) MD = mean diffusion FA = fractional anisotropy
		DTI Scan Download (648kb)	128x128x58 8 bit E62446AC	Stefan Roettger Computer Graphics Group, University of Erlangen, Germany http://www9.cs.fau.de/Persons/Roettger	Diffusion Tensor MRI Scan Series	B0 = lores MRI scan (no diffusion weighting) B1 = diffusion weighted volume #1 with dir=(1,0,1) B2 = diffusion weighted volume #2 with dir=(-1,0,1) B3 = diffusion weighted volume #3 with dir=(0,1,1) B4 = diffusion weighted volume #4 with dir=(0,1,-1) B5 = diffusion weighted volume #5 with dir=(1,1,0) B6 = diffusion weighted volume #6 with dir=(-1,1,0) MD = mean diffusion FA = fractional anisotropy
		DTI Scan Download (364kb)	128x128x58 8 bit 7F461F36	Stefan Roettger Computer Graphics Group, University of Erlangen, Germany http://www9.cs.fau.de/Persons/Roettger	Diffusion Tensor MRI Scan Series	B0 = lores MRI scan (no diffusion weighting) B1 = diffusion weighted volume #1 with dir=(1,0,1) B2 = diffusion weighted volume #2 with dir=(-1,0,1) B3 = diffusion weighted volume #3 with dir=(0,1,1) B4 = diffusion weighted volume #4 with dir=(0,1,-1) B5 = diffusion weighted volume #5 with dir=(1,1,0)

						B6 = diffusion weighted volume #6 with dir=(-1,1,0) MD = mean diffusion FA = fractional anisotropy
		Daisy Pollen Grain Download (568kb) .sav	192x180x168 8 bit 745EFA2F	Olaf Ronneberger Computer Science Institute, University of Freiburg, Germany	Daisy pollen grain recorded by confocal laser scanning microscopy	
		Engine Block Download (2900kb) .sav	256x256x256 8 bit E786CB95	General Electric, USA http://www.ge.com	CT Scan GE Industrial Scanner	Two cylinders of an engine block
		Foot Download (4592kb) .sav	256x256x256 8 bit 4FAD56F0	Philips Research, Hamburg, Germany http://www.philips.de/forschung	CT Scan Philips CT Scanner	
		Frog Download (1652kb) .sav	256x256x44 8 bit 0.5/0.5/1 B2E8D2C2	Information and Computing Sciences Division, Lawrence Berkeley Laboratory, USA http://www-itg.lbl.gov	MRI Scan	This is the second frog used in the Whole Frog Project. Three sets of data were produced with the MRI scans. frog2ci.hips seemed to be the best, and only this set of data was processed using HIPS filters to balance the contrast on the images. This same frog was later sliced and a better data set is produced that showed more detail of the frog. frog2ci.hips -- is a spin echo data set with 50 slices, inplane resolution of 0.5mm, slice thickness and separation of 1.0mm, TE = 33ms. The individual slices 2-45 are in the tiff directory. For information about the HIPS file format see http://www-itg.lbl.gov/ITG.hm.pg.docs/image-proc/CCS-ECL/README.txt This data is copyrighted by Lawrence Berkeley National Laboratory.
		Fuel Injection Download (12kb) .sav	64x64x64 8 bit 282902A6	SFB 382 of the German Research Council (DFG)	Simulation of fuel injection into a combustion chamber The higher the density value, the lower the presence of air	
		Hydrogen Atom Download (196kb) .sav	128x128x128 8 bit 4A792245	SFB 382 of the German Research Council (DFG)	Simulation of the spatial probability distribution of the electron in a hydrogen atom, residing in a strong magnetic field.	
		Download (5912kb) .sav	500x500x100 16 bit 4/4/3 4462EA24	Hurricane Isabel converted into PVM format by Stefan Roettger Georg-Simon-Ohm University of Applied Sciences, Nuremberg, Germany http://wiki.ohm-hochschule.de/roettger The Weather Research and Forecasting (WRF) Model simulation data of Hurricane Isabel was kindly provided by Bill Kuo, Wei Wang, Cindy Bruyere, Tim Scheitlin, and Don Middleton of the U.S. National Center for Atmospheric Research (NCAR) and the U.S. National Science Foundation (NSF) at this location: http://www.vets.ucar.edu/vg/isabeldata/		
		Download (5772kb) .sav	500x500x100 16 bit 4/4/3 5039AFFF	Hurricane Isabel converted into PVM format by Stefan Roettger Georg-Simon-Ohm University of Applied Sciences, Nuremberg, Germany http://wiki.ohm-hochschule.de/roettger The Weather Research and Forecasting (WRF) Model simulation data of Hurricane Isabel was kindly provided by Bill Kuo, Wei Wang, Cindy Bruyere, Tim Scheitlin, and Don Middleton of the U.S. National Center for Atmospheric Research (NCAR) and the U.S. National Science Foundation (NSF) at this location: http://www.vets.ucar.edu/vg/isabeldata/		
Isabel-Upwind		Download (32548kb)	500x500x100 16 bit 4/4/3 C9695DDD	Hurricane Isabel converted into PVM format by Stefan Roettger Georg-Simon-Ohm University of Applied Sciences, Nuremberg, Germany http://wiki.ohm-hochschule.de/roettger The Weather Research and Forecasting (WRF) Model simulation data of Hurricane Isabel		

				was kindly provided by Bill Kuo, Wei Wang, Cindy Bruyere, Tim Scheitlin, and Don Middleton of the U.S. National Center for Atmospheric Research (NCAR) and the U.S. National Science Foundation (NSF) at this location: http://www.vets.ucar.edu/vg/isabeldata/		
		Download (8384kb) .sav	384x384x96 8 bit 1.0909/1.0909/0.989583 B23A8009	Stefan Roettger Georg-Simon-Ohm University of Applied Sciences, Nuremberg, Germany http://wiki.ohm-hochschule.de/roettger		
Kiwi		Download (3260kb)	256x256x104 8 bit 0.466919/0.466919/0.61899 3732AC40	Stefan Roettger & Florian Steinmeyer Georg-Simon-Ohm University of Applied Sciences, Nuremberg, Germany http://wiki.ohm-hochschule.de/roettger		
		Knee Download (26040kb) .sav	512x512x87 16 bit 0.25/0.25/1.5 21D925AD	Brigham and Women's Hospital Surgical Planning Laboratory http://splweb.bwh.harvard.edu	MRI Scan	From the Transfer Function Bakeoff at IEEE Visualization '00 Conference Original source: http://visual.nlm.nih.gov
		Lobster Download (1908kb) .sav	301x324x56 8 bit 1/1/1.4 CFCD4D44	VolVis distribution of SUNY Stony Brook, NY, USA. http://www.volvis.org	CT Scan	The lobster is contained in a block of resin
		MRI Head Download (13412kb) .sav	256x256x256 8 bit 1/1/0.8 3396D681	Computer Graphics Group, University of Erlangen, Germany http://www9.cs.fau.de	MRI Scan	
		MRI Phantom Download (7420kb)	181x217x181 16 bit 19FB5371	McConnell Brain Imaging Centre Montreal Neurological Institute, McGill University http://www.bic.mni.mcgill.ca/cgi/brainweb	Simulated MRI Scan Series	BrainWeb: Simulated Brain Database As the interest in the computer-aided, quantitative analysis of medical image data is growing, the need for the validation of such techniques is also increasing. Unfortunately, there exists no `ground truth' or gold standard for the analysis of in vivo acquired data. The BrainWeb pages provide a solution to the validation problem, in the form of a Simulated Brain Database (SBD). The SBD contains a set of realistic MRI data volumes produced by an MRI simulator. These data can be used by the neuroimaging community to evaluate the performance of various image analysis methods in a setting where the truth is known. PD = MRI Proton Density T1 = MRI T1 measurement T2 = MRI T2 measurement
		MRI Phantom Download (6656kb) .sav	181x217x181 16 bit 3AB8A09B	McConnell Brain Imaging Centre Montreal Neurological Institute, McGill University http://www.bic.mni.mcgill.ca/cgi/brainweb	Simulated MRI Scan Series	BrainWeb: Simulated Brain Database As the interest in the computer-aided, quantitative analysis of medical image data is growing, the need for the validation of such techniques is also increasing. Unfortunately, there exists no `ground truth' or gold standard for the analysis of in vivo acquired data. The BrainWeb pages provide a solution to the validation problem, in the form of a Simulated Brain Database (SBD). The SBD contains a set of realistic MRI data volumes produced by an MRI simulator. These data can be used by the neuroimaging community to evaluate the performance of various image analysis methods in a setting where the truth is known. PD = MRI Proton Density T1 = MRI T1 measurement T2 = MRI T2 measurement
		MRI Phantom Download (7648kb)	181x217x181 16 bit DEFC2412	McConnell Brain Imaging Centre Montreal Neurological Institute, McGill University http://www.bic.mni.mcgill.ca/cgi/brainweb	Simulated MRI Scan Series	BrainWeb: Simulated Brain Database As the interest in the computer-aided, quantitative analysis of medical image data is growing, the need for the validation of such techniques is also increasing. Unfortunately, there exists no `ground truth' or gold standard for the analysis of in vivo acquired data. The BrainWeb pages provide a solution to the validation problem, in the form of a Simulated Brain Database (SBD). The SBD contains a set of realistic MRI data volumes produced by an MRI simulator. These data can be used by the neuroimaging community to evaluate the performance of various image analysis methods in a setting where the truth is known.

						PD = MRI Proton Density T1 = MRI T1 measurement T2 = MRI T2 measurement
		MRI Woman Download (7788kb) .sav	256x256x109 16 bit 1/1/1.5 EA3A8842	Siemens Medical Systems, Inc., Iselin, NJ., USA	MRI Scan Siemens Magnetom	
		Registered Monkey Head (CT) Download (540kb) .sav	256x256x62 8 bit 55513E1F	Laboratory of Neuro Imaging, UCLA, USA http://www.loni.ucla.edu/Research/Atlases/	CT Scan	
		Registered Monkey Head (MRI T1) Download (2160kb) .sav	256x256x62 8 bit E0DAD1AC	Laboratory of Neuro Imaging, UCLA, USA http://www.loni.ucla.edu/Research/Atlases/	MRI T1 Scan	
		Registered Monkey Head (MRI T2) Download (1724kb) .sav	256x256x62 8 bit 2D7656C6	Laboratory of Neuro Imaging, UCLA, USA http://www.loni.ucla.edu/Research/Atlases/	MRI T2 Scan	
		Registered Monkey Head (PET) Download (3340kb)	256x256x62 RGB 100FE261	Laboratory of Neuro Imaging, UCLA, USA http://www.loni.ucla.edu/Research/Atlases/	PET Scan	
		Neghip Download (68kb) .sav	64x64x64 8 bit 42A8A6EF	VolVis distribution of SUNY Stony Brook, NY, USA. http://www.volvis.org	Simulation of the spatial probability distribution of the electrons in a high potential protein molecule.	Neghip = Negative high potential protein molecule
		Orange Download (2480kb) .sav	256x256x64 8 bit 0.390625/0.390625/1 3CA3D462	Bill Johnston and Wing Nip Information and Computing Sciences Division, Lawrence Berkeley Laboratory, USA http://www-itg.lbl.gov	MRI Scan	These images and data were produced at Lawrence Berkeley Laboratory by Bill Johnston and Wing Nip of the Information and Computing Sciences Division. This work is supported by the U. S. Department of Energy, Energy Research Division, Office of the Scientific Computing Staff under contract DE-AC03-76SF00098. This data is provided for the purpose of scientific research and collaboration with Lawrence Berkeley Laboratory. Any commercial use of these images and data require prior agreement with Lawrence Berkeley Laboratory. The images and data are Copyright Lawrence Berkeley Laboratory. For further information contact Bill Johnston (510-486-5014, wejohnston@lbl.gov).
		Download (1060kb) .sav	480x512x64 8 bit 0.70166/0.701752/0.885938 DCF08EE7	Stefan Roettger Georg-Simon-Ohm University of Applied Sciences, Nuremberg, Germany http://wiki.ohm-hochschule.de/roettger		
		Piggy Bank Download (16516kb) .sav	512x512x134 16 bit 0.371094/0.371094/1 E0EF8A00	Michael Bauer Computer Graphics Group, University of Erlangen, Germany http://www9.cs.fau.de	CT Scan Siemens Volume Zoom Somatom Plus 4	To prevent scanning artifacts the piggy bank contains chocolate coins
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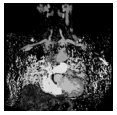
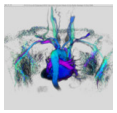
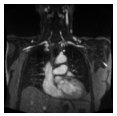
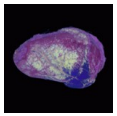
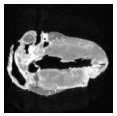
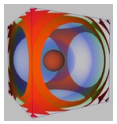
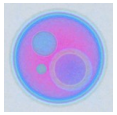
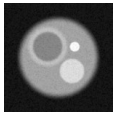
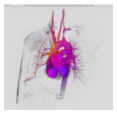
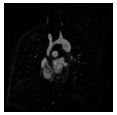
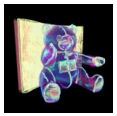
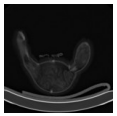
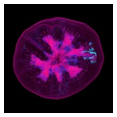
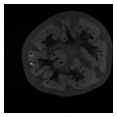
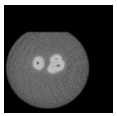
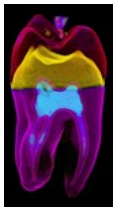
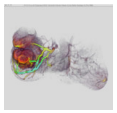
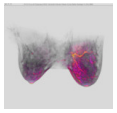
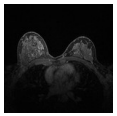
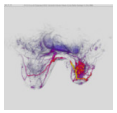
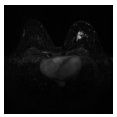
Retrograde-GF		Download (6500kb)	320x320x72 16 bit 1.25/1.25/1.85 92EA86AD			
		Download (4152kb) .sav	320x320x72 16 bit 1.25/1.25/1.85 29A40E5E	Stefan Roettger Georg-Simon-Ohm University of Applied Sciences, Nuremberg, Germany http://wiki.ohm-hochschule.de/roettger		
		Sheep Heart Download (18772kb) .sav	352x352x256 8 bit FC68B74E	Center for In-Vivo Microscopy, Duke University, North Carolina, USA http://wwwcivm.mc.duke.edu	MRI Scan	From the Transfer Function Bakeoff at IEEE Visualization '00 Conference Original source: http://visual.nlm.nih.gov
		Spherical Distance Volume Download (68kb)	64x64x64 8 bit DF219C08	Stefan Roettger Computer Graphics Group, University of Erlangen, Germany http://www9.cs.fau.de/Persons/Roettger	Artificial	Test dataset containing the euclidean distance to the origin
		Test Spheres Download (1596kb) .sav	128x128x128 8 bit 4817C587	Stefan Roettger Computer Graphics Group, University of Erlangen, Germany http://www9.cs.fau.de/Persons/Roettger	Artificial Test Dataset	
		Download (14408kb) .sav	512x512x96 8 bit 0.779724/0.779724/0.791667 FEB03210	Stefan Roettger Georg-Simon-Ohm University of Applied Sciences, Nuremberg, Germany http://wiki.ohm-hochschule.de/roettger		
		Teddy Bear Download (8856kb) .sav	512x512x63 16 bit 0.693359/0.693359/5 5F420124	Bernd Tomandl Division of Neuroradiology, University of Erlangen, Germany http://www.neuroradiologie.med.uni-erlangen.de	CT Scan	
		Tomato Download (2292kb) .sav	256x256x64 8 bit 0.390625/0.390625/1 9872930A	Bill Johnston and Wing Nip Information and Computing Sciences Division, Lawrence Berkeley Laboratory, USA http://www-itg.lbl.gov	MRI Scan	These images and data were produced at Lawrence Berkeley Laboratory by Bill Johnston and Wing Nip of the Information and Computing Sciences Division. This work is supported by the U. S. Department of Energy, Energy Research Division, Office of the Scientific Computing Staff under contract DE-AC03-76SF00098. This data is provided for the purpose of scientific research and collaboration with Lawrence Berkeley Laboratory. Any commercial use of these images and data require prior agreement with Lawrence Berkeley Laboratory. The images and data are Copyright Lawrence Berkeley Laboratory. For further information contact Bill Johnston (510-486-5014, wejohnston@lbl.gov).
		The Tooth Download (4540kb) .sav	256x256x161 16 bit 64E45893	GE Aircraft Engines, Evendale, Ohio, USA	Micro CT Scan GE Industrial Micro CT Scanner	From the Transfer Function Bakeoff at IEEE Visualization '00 Conference Original source: http://visual.nlm.nih.gov

						
		Download (7684kb) .sav	448x448x208 8 bit 0.712691/0.712691/0.796154 AD7982A4	Stefan Roettger Georg-Simon-Ohm University of Applied Sciences, Nuremberg, Germany http://wiki.ohm-hochschule.de/roettger		
		Download (16964kb) .sav	448x448x160 8 bit 0.645876/0.645876/0.944063 EDE5D510	Stefan Roettger Georg-Simon-Ohm University of Applied Sciences, Nuremberg, Germany http://wiki.ohm-hochschule.de/roettger		
		Download (17072kb) .sav	448x448x160 16 bit 946A9B34	Stefan Roettger Georg-Simon-Ohm University of Applied Sciences, Nuremberg, Germany http://wiki.ohm-hochschule.de/roettger		
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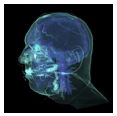
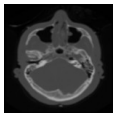
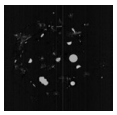
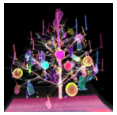
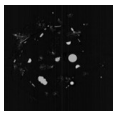
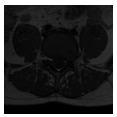
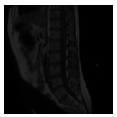
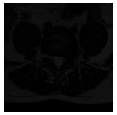
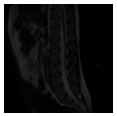
		Head (Visible Male) Download (2792kb) .sav	128x256x256 8 bit 1.57774/0.995861/1.00797 26B44CE6	National Library of Medicine, National Institutes of Health, USA http://www.nlm.nih.gov	CT Scan	
		The XMasTree lores version Download (10096kb) .sav	256x249x256 16 bit 2720D16E	The CT-dataset XMasTree was generated from a real world Christmas Tree by the Department of Radiology, University of Vienna and the Institute of Computer Graphics and Algorithms, Vienna University of Technology. http://ringlotte.cg.tuwien.ac.at/datasets/XMasTree/XMasTree.html	CT Scan Real-world dimensions: X-Size: 476mm Y-Size: 476mm Z-Size: 499mm	
		The XMasTree Download (72236kb)	512x499x512 16 bit BBE684C1	The CT-dataset XMasTree was generated from a real world Christmas Tree by the Department of Radiology, University of Vienna and the Institute of Computer Graphics and Algorithms, Vienna University of Technology. http://ringlotte.cg.tuwien.ac.at/datasets/XMasTree/XMasTree.html	CT Scan Real-world dimensions: X-Size: 476mm Y-Size: 476mm Z-Size: 499mm	
Zukic_Dzenan_T1		MR T1 Scan Download (624kb)	256x256x24 8 bit 0.661469/0.661469/5.21949 61201BA3	Zukic Dzenan		
Zukic_Dzenan_T1SAG		MR T1 Sagittal Scan Download (948kb)	512x512x12 8 bit 0.682259/0.682259/4.03333 9C968709	Zukic Dzenan		
Zukic_Dzenan_T2		MR T2 Scan Download (1336kb)	432x432x24 8 bit 0.392608/0.392608/5.21949 33C61676	Zukic Dzenan		

						
Zukic_Dzenan_T2SAG		MR T2 Sagittal Scan Download (1280kb)	640x640x12 8 bit 0.546021/0.546021/4.03333 A04FC330	Zukic Dzenan		

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Number of datasets: 85
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