Zurich fMRI Methods Evaluation Toolbox – Coding Conventions

Item	Convention	Example
Function	create new function file	new function('compute snr')
Header	using function	or
	"new_function"	new function compute snr
Functions	names with underscore, all	compute snr()
	lowercase letters	
Variables	names with mixed-case,	nImages; iVoxel; totalSnr;
	starting with lowercase	maxDurationSeconds
	letter	
Classes	names with mixed-case,	MrImage; MrSeries; CopyData;
	starting with uppercase	MrRoi
	letter	
	Naming conventions:	
	• if "rich" class, start name	Mr*
	with Mr, i.e. stand-alone	
	use and versatile methods	
	(plotting, computation)	Marcania
	• if class exists only as	MrSeriesParameters
	property of another class	(for MrSeries.parameters)
	(e.g. parameter container),	
	prepend name of this	
	class.	
	1 1 5 7	new class('MrExperiment') or
	create new class definition	new_class MrExperiment
	file (incl. headers) with "new_class"	new_crass minaperimene
	The class folder	=> output:
	"@Classname" is created	@MrExperiment/MrExperiment.m
	automatically	Caracas Caraca Ca
Class	as for functions, built	MrExperiment.compute snr()
Methods	names with underscore, all	(,
112011000	lowercase letters	
	each methods goes into an	
	extra file (apart from	
	constructor/destructor,	
	set/get)	
	create new class method	cd @MrExperiment
	file with "new_method"	new_method compute_snr
	while being in the class	
	folder, i.e. "@Classname"	=> output:
		<pre>@MrExperiment/compute_snr.m</pre>

Class	names with mixed-case,	MrImage.maxPixelValue
Properties	starting with lower letter	MrSeries.snr
1	(as variables)	
One-line	Provide a one-line	ONE_LINE_DESCRIPTION
description	description of each class	=> Replace e.g. by:
_	and method right under its	Executes a complicated
	definition line.	algorithm returning 42.
	• Start with capital letter	
	• Stay within 80 character	
	limit for the line	
	This makes the	
	class/method readable	
	using Matlabs' doc	
	function.	

Resources

Read the following documents to get started with submitting code to the repository.

- Matlab and object-oriented programming http://www.mathworks.ch/ch/help/matlab/matlab_oop/specifying-methods-and-functions.html
 - svn