

## Questionnaire

Please rate the following statements based on your experience with the semantic implementation of PreFreeSurfer in WINGS.

		Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
1	I think that I would like to use this workflow frequently.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	I found the workflow unnecessarily complex.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	I thought the workflow was easy to use.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	I think that I would need the support of a technical person to be able to use this workflow.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	I found the various functions in this workflow were well integrated.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	I thought there was too much inconsistency in this workflow.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	I would imagine that most people would learn to use this workflow very quickly.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8	I found the workflow very cumbersome to use.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9	I felt very confident using the workflow.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	I needed to learn a lot of things before I could get going with this workflow.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please answer the following questions. Feel free to include as much detailed as possible.

11) Did you encounter any issues using the workflow?

No, only when initially setting up my account, but that was quickly resolved

12) How did this semantic workflow compare to other workflows you have used in the past?

I've used the LONI pipeline and I found this MUCH more flexible and dynamic. It is nice to see the planned workflow given the different cases of input data.

13) What impressions do you have concerning the use of semantics in the workflow?

I thought it was very convenient that all the metadata needed to process a subject is attached to the images. This reduces the possibility of user error (ie processing a subject with a Diffusion Field Map instead of a Spin Echo Field Map, or using the wrong scanner configuration, or processing a Macaque as a Human). I am sort of wondering if semantics is the correct term. It seems more just like a configuration file that is attached to each image. How exactly do you define semantics in this context?

14) What features did you find most useful?

The plan workflow feature was most useful. I liked seeing the different options for pipelines that could be run and seeing the layout of each pipeline. I did think there was too much information though. It would be very tough for a non-technical person to differentiate the pipelines. All of the inputs for each step don't necessarily need to be displayed to the user.

15) What aspect of the workflow did you find most cumbersome?

The granularity of information was a little too much. I liked in the semantic pipeline that a lot of the options were hidden from the user. This is setup works well when you are only processing a couple subjects and want to examine each part of the pipeline, but in most cases researchers are processing hundreds of

subjects and they don't want to be hassled with deciding parameters at each step or making sure the same pipeline is being run with the same configuration for each subject.

16) Do you have any recommendations that would make the semantic workflow better?

I think it is necessary to set this up at the study level. You should be able to select a group of subjects and cross-reference metadata to ensure that they can all be processed with the same pipeline. If all the subjects could be submitted at once this workflow would be extremely valuable

17) Do you have any additional comments or concerns?

My concerns are with the backend. I've spent a little time working on WINGS and I'm concerned how difficult it is to modify pipelines and attach metadata. Both of those tasks I believe would require significant specialized training and would deter many from adopting it.