

Middle-grained ontology 'DRO'

[http://esw.w3.org/HCLSIG/SWANSIOC/
Actions/RhetoricalStructure/alignment/
mediumgrain](http://esw.w3.org/HCLSIG/SWANSIOC/Actions/RhetoricalStructure/alignment/mediumgrain)

Jodi Schneider 2011-01-31

Middle-grained alignment procedure

- 1. ORB + DRO first. ($ORB + DRO = DRO^*$).
- **2. DRO^* + Data-Experiment (DEXI) next. ($DRO^* + DEXI = DRO^{**}$).**
- 3. $DRO^{**} + DOCO$.



Ontology of Rhetorical Blocks (ORB)

Editor's Draft 25 January 2011

This version:

<http://www.w3.org/2001/sw/hcls/notes/orb/>

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Import ORB (draft)

- Header
 - Title
 - Author
 - Affiliation
 - Publishing Venue
 - Date
 - Abstract
- Body
 - Introduction
 - Methods
 - Results
 - Discussion
- Tail
 - Acknowledgements
 - Discussion

Increase granularity in the Body

3.2. Body

As mentioned above, subject to the scientific domain, the rhetorical blocks may have different names. In order to be abstract enough, yet inclined towards HealthCare and Life Sciences, ORB adopts the IMRAD (Introduction, Methods, Results And Discussion) [\[IMRAD\]](#) structure and terminology to define the rhetorical blocks of the Body. This structure is preferred by several scientific journals and explicitly recommended in the "Uniform Requirements for Manuscripts Submitted to Biomedical Journals: Writing and Editing for Biomedical Publication" issued by the International Committee of Medical Journal Editors (ICMJE).

IMRAD [\[IMRAD-XML\]](#), and consequently ORB, describes the standard main structure of a scientific publication, which typically includes the following four sections in the following order:

<i>Class</i>	<i>Definition</i>
<i>orb:Introduction</i>	The section describing why was the study in the publication undertaken, what was the tested hypothesis or what was the purpose of the research. It lays down the rationale behind the own existence of the publication.
<i>orb:Methods</i>	The section describing when, where, and how was the study done. It includes the materials used as part of the study and who was included in the study groups (patients, etc.).
<i>orb:Results</i> <i>orb:Discussion</i>	The part synthesising the results of the study presented in the paper. The section analyzing whether the tested hypothesis was confirmed. It also interprets the results to understand their consequences and importance. And finally, it shows how the approach and results fit to what other researchers in the field have discovered, including possible perspectives of future research.

For Body

- Carry over SWAN statements from DEXI
- Add Figure
 - dexi:Primary Data
 - dexi: Derived Data
 - caption (which may contain a dexi:Interpretation or SWAN:Claim)

For Methods section

- dxi:Assay
- dxi:Biological Factor
- dxi:Biomaterial
- dxi:Biomaterial Characteristics
- dxi>Data Acquisition
- dxi>Data Analysis
- dxi>Data Processing
- dxi:Derived Data
- dxi:Design
- dxi:Factor
- dxi:Measurement
- dxi:Population
- dxi:Primary Data

Can these appear in methods?

- dexi:Design
- dexi:Interpretation
- dexi:Protocol
- dexi:Study

“Software” in methods

- does myExperiment handle all software?

Part of the methods, or not?

- Supplementary Methods
- Methods “as previously described” in other papers