

Introduction

This module is part of the Behaviour Change Intervention Ontology (BCIO) online training programme whose purpose is to help potential users of the ontology to understand what it is, how it works, how to use it in their research, and for those who are interested, how to develop and improve it.

This module provides an introduction to ontologies and their uses.

This module consists of 1 video of 10 minutes in duration.

Here is a link to the video: <https://youtu.be/ojAtCcDyivo>

Learning objectives

After the training you should be able to:

1. Describe what ontologies are.
2. List the key types of information that they contain.
3. Identify important uses in science.

Notes and explanations

What are ontologies?

- Ontologies are computable representations of the types of entity in a domain
- They contain identifiers and definitions, a hierarchical classification and other relationships, and labels and synonyms
- For more information, see <https://pubmed.ncbi.nlm.nih.gov/27812931/>

Why are they useful?

- They support data annotation with meaningful categories regardless of data type
- They allow integration of data and evidence
- They capture a consensus of agreed definitions for use by a community

Links to resources

HBCP website: <https://www.humanbehaviourchange.org/>

BCIO website: <https://bciontology.org>

BCIO Search website: <https://bciosearch.org>

BCIO Visualisation Tool: [BCIO visualisation tool: https://bciovis.hbcptools.org/](https://bciovis.hbcptools.org/)

Ontology Lookup Service: <https://www.ebi.ac.uk/ols/index>

Qeios publishing platform: <https://qeios.com>

X (formerly known as Twitter): @HBCProject

Publications: <https://wellcomeopenresearch.org/collections/humanbehaviourchange>

Open Science Framework: <https://osf.io/efp4x/>

Github: <https://github.com/HumanBehaviourChangeProject>