# **Making Projects**

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# Tangible Learning & Intellectual Disabilities

What is making?

Makerspaces

Intellectual disabilities (IDs)



Milwaukee Makerspace Shop -Pete Prodehl - Flickr under <u>CC</u>

#### Barriers

Tangible learning can be inaccessible to people with IDs:

- Requires high manual dexterity
- Assumptions of prior knowledge and memory
- Unclear, complex instructions

#### A Solution

A way of automatically adapting a course of tangible learning projects, to fit an individuals needs.

- Focus on what a person can do, rather than what they can't
- Prioritising autonomy and choice

# Implementation

A Django site: Python, SQLite, HTML, CSS, JavaScript.

Hosted on PythonAnywhere: https://ciw.eu.pythonanywhere.com/

# Making Projects Projects View Profile Switch Profile Add Tool Create Syllabus Logout Welcome to Making Projects! Here you can view project tutorials in a way that is accessible to you. There is a library of projects here that are adapted to fit your needs. You can view all the projects without creating an account, but you need one to have a project customised for you. As well as individual projects, you can make a "syllabus" which will give you a path of projects to follow to help you gain the skills needed to carry out a more complex project that you'd like to do. Explore the projects Create an account

## **Demonstration**

#### **Evaluation**

1-on-1 lab study with 3 participants.

- Removing jargon
- Legibility
- Syllabus

"If you're on your own and you know you want to achieve something but you're not sure how to get there, it will show you the intermediate steps."

### Conclusion

- Highlighted the needs of people with IDs when interacting with technology and making
- Developed a tool to address these needs
- Evaluated the tool with relevant people