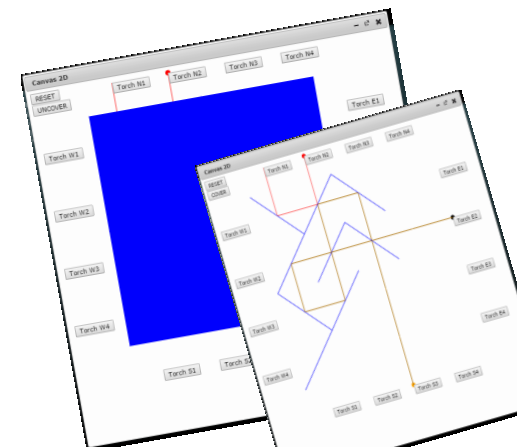


Thinking through Making: CONSTRUIT! for Schools

Meurig Beynon

University of Warwick

wmb@dcs.warwick.ac.uk



Erasmus+ Project: CONSTRUIT!

Working with
teachers and
schools

*Making Construals as a new digital skill
for creating open educational resources*

Six European partners 2014 – 2017

www.construit.org

Acknowledgements

- Chris Hall
- Jonny Foss
- Elizabeth Hudnott
- Steve Russ

WARWICK

Helix5



... and the other members of the CONSTRUIT! team



This project has been funded with support from the European Commission under the Erasmus+ programme (2014-1-UK01-KA200-001818). This presentation reflects the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

Construal ... what's that?!

A fancy word for a new idea ...



... a way of making and thinking with computing.

A construal, for us, is a kind of model, but not really mathematical and not really physical ... more like the results of modelling we do in our heads ...

It's an interactive **visualisation** combined with a **script** of definitions, functions and actions ...

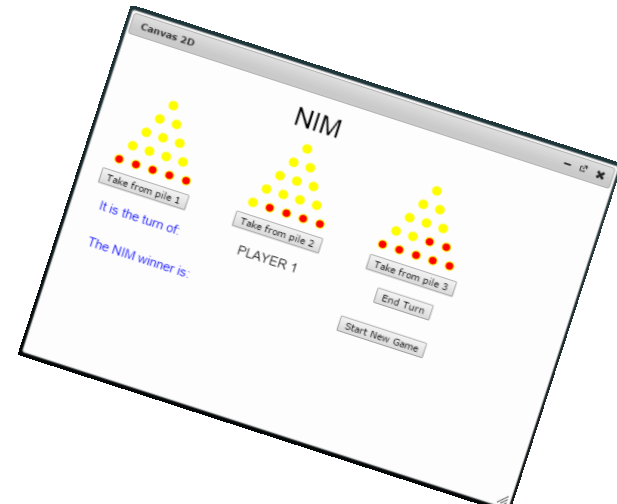
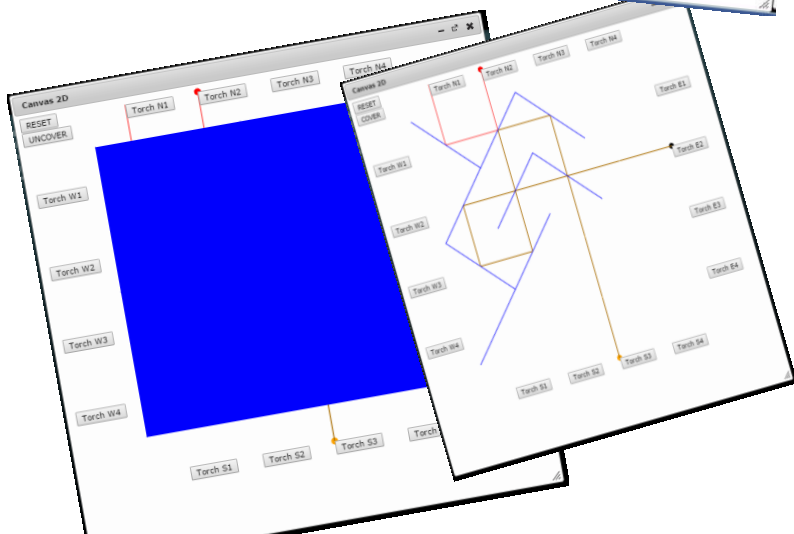
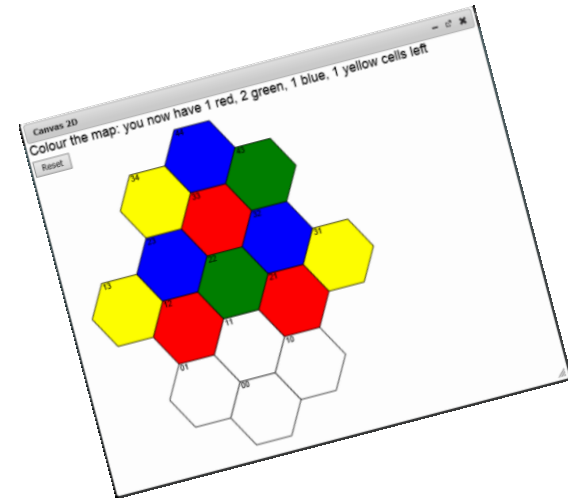
Where's it come from ...?

The ideas and tools for making construals have developed over many years from research and teaching at the University of Warwick (Dept of Computer Science) in the Empirical Modelling Research Group.

www.dcs.warwick.ac.uk/modelling

Projects to explore

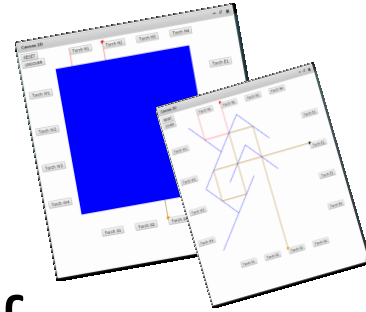
<http://jseden.dcs.warwick.ac.uk/scifest>





```
maxred = 4
maxgreen = 4
maxblue = 4
maxyellow = 4
allvals = ["white", "white", "white", "white", "white", "white", "white", "white"]
noofredcells = 1
noofgreencells = 1
noofbluecells = 0
noofyellowcells = 0
coloursok = true
```

What's it good for?



We think it's good for learning: a new kind of educational resource - emphasising learning and thinking through making [construals].

It's using computing for learning about many subjects (including computing). It includes, but is much broader than, 'computational thinking'.

The CONSTRUIT! Project will deliver an online course, virtual workshops, and lots of evaluation of **developing and** making construals

Where is it? Can I join in?

A practical place to start is

<http://jseden.dcs.warwick.ac.uk/scifest>

Look at the **Project List** there and click on ...
whatever you like ...

We **need** teachers and pupils as evaluators. If
interested please send email to Steve Russ

steve.russ@warwick.ac.uk

or Meurig Beynon at wmb@dcs.warwick.ac.uk