

CONSTRUIT! An introduction to making construals

Session 1

- Welcome to CONSTRUIT!
- Introduction to C5
- Orientation on Making Construals
- Examples of construals

Objectives for C5

A learning activity to support the development of online resources for Making Construals (MC):

- a curriculum ("the MCC")
- an environment ("the MCE")
- online materials ("the MCM")

Running in parallel with a Virtual Workshop

Curriculum for making construals

Scope of the curriculum ("six claims"):

- Accessibility
- Comprehensibility
- Scope for collaborative development
- Scope for assessment and evaluation
- Serving as a resource for creating OERs
- Wide applicability across disciplines

"Construal"?

- 'my explanation' for phenomenon X
- how I think about X
- how I think X works
- how I think X is constructed / put together

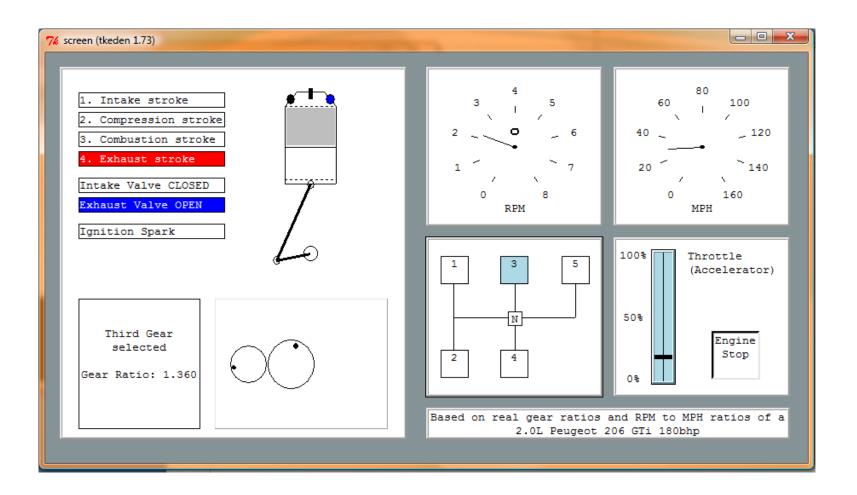
Varieties of construal we make ...

- ... of things we understand very well e.g. how a internal combustion engine works
- ... of unexpected occurrences for which we have no ready explanation
- ... of how learning activities take place
- ... of what it might be possible or desirable to construct

Examples of construals

- A car engine [enginewithgearsSidbury2010]
- Adventures in a lift ...
- Playing noughts-and-crosses [oxoGardner1999]
- A design for a room [roomdemolabShao2012]

An engine with gears construal



I am at a conference in the Netherlands.

I arrive late at night and hardly notice where my room is.

Next morning, I notice that my room is on the top floor.

I walk down to breakfast thinking about my talk later on.

After breakfast I meet two other delegates X and Y.

We get in the lift to return to our rooms.

1/15/2015

X presses the button for floor 4.

Y says he is on the floor above X, and selects floor 5.

Since the top button is selected, I don't press a button.

We talk as we ascend. The lift stops. The door opens.

The floor numbers aren't clearly marked.

I say to X – 'this must be floor 4' – he gets out.

Y and I carry on talking.

When the lift next stops, the floor is still unclear.

I say to Y 'X is on the floor below you; this is your floor'.

Y gets out. I think something is not quite right.

I think 'is this the top floor?' and 'should I get out?'.

I'm unsure, but notice that the button for floor 5 is still lit.

I proceed to the top floor which is the next floor, floor 5.

When I get out of the lift, I can't find my room.

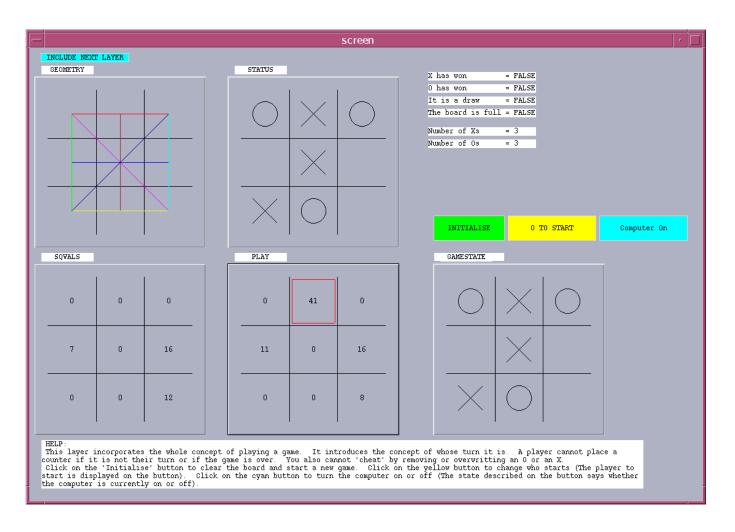
There's no room where my room is on floor 5.

I walk down to floor 4, and pass Y on his way to floor 5.

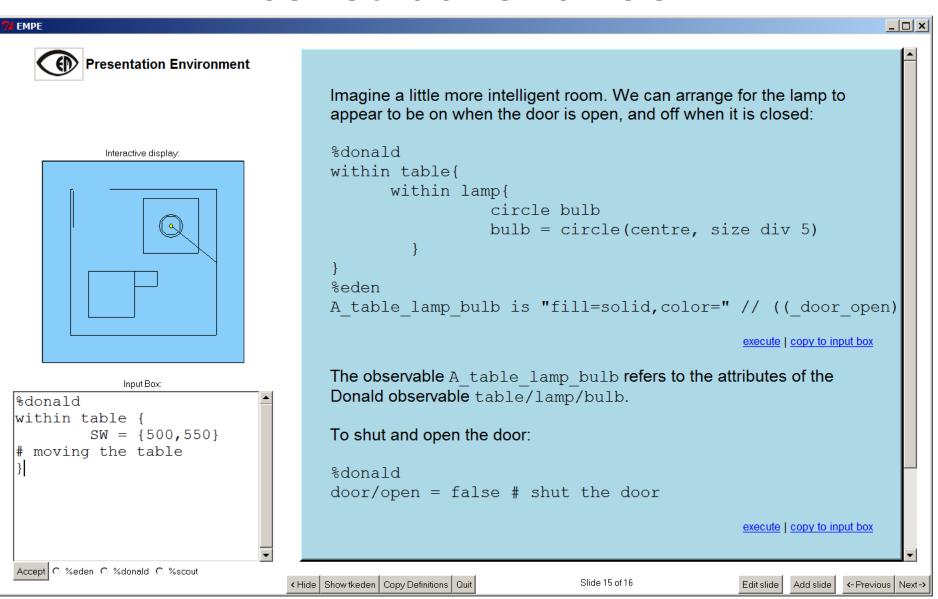
When I reach floor 4, I meet X coming up from floor 3 ...

How did I manage to get all 3 of us to the wrong floor?

Playing noughts-and-crosses



A construal of a room



Making construals

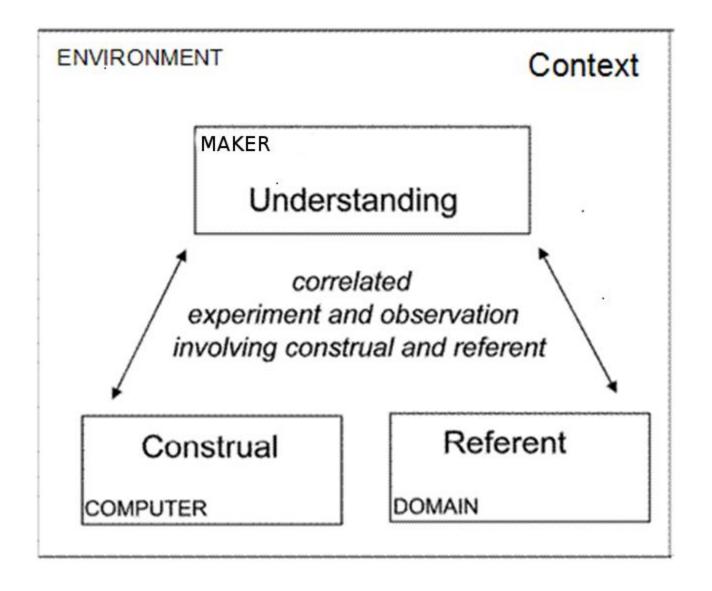
- Knowing precisely what something may not help us to construct it cf. programming/modelling
- Knowing what a construal ideally is is valuable, but doesn't account for how construals are made
- Construals are actually very hard to define cf. a genuine construal can be a *misconstrual*

"once bitten, twice shy"

A working definition for CONSTRUIT!

A construal of X is anything that somebody can experience as connected with X

Making construals



Key notions

- There is no right construal [some might wish to say 'in general']
- The fundamental diagram is about capturing what we understand partially, provisionally, personally and quite possibly mistakenly
- Confronting confusion and making mistakes is of the essence in making construals

Summary

- The fundamental diagram expresses the way in which meaning is captured through interaction
- Construals can be expressed using a script of definitions and an associated cloud of interactions in the form of re-definitions
- Which interactions are meaningful depends on who/what is making the re-definitions and in what context

Summary

- The fundamental diagram expresses the way in which meaning is captured through interaction
- Construals can be expressed using a set of dependencies between observables and a cloud of interactions in the form of re-definitions
- Which interactions are meaningful depends on who/what agent is making the re-definitions and in what context