

Towards Next Generation, Free, & Open-Source, Argument Analysis Tools

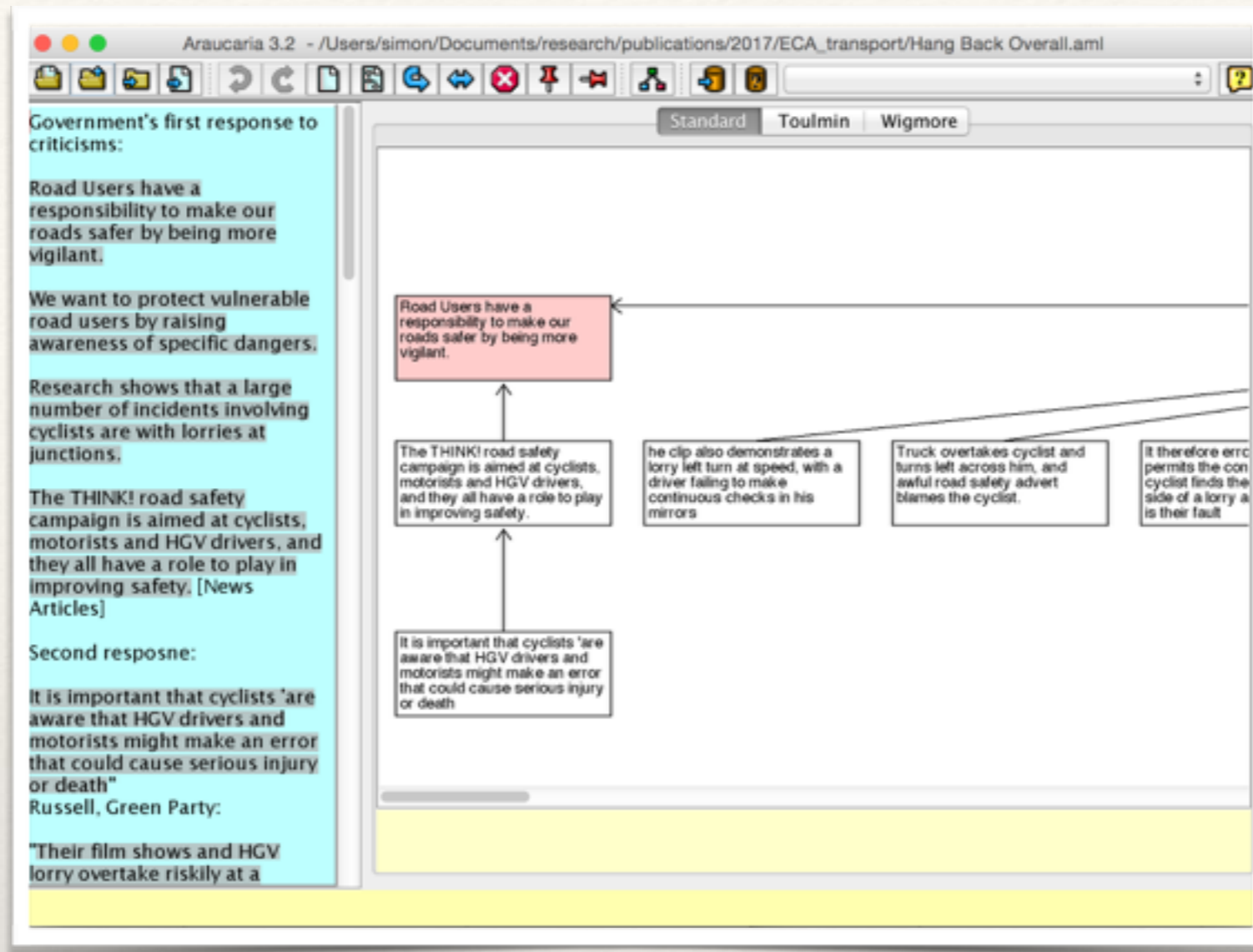
MonkeyPuzzle

Simon Wells

John Douglas

~

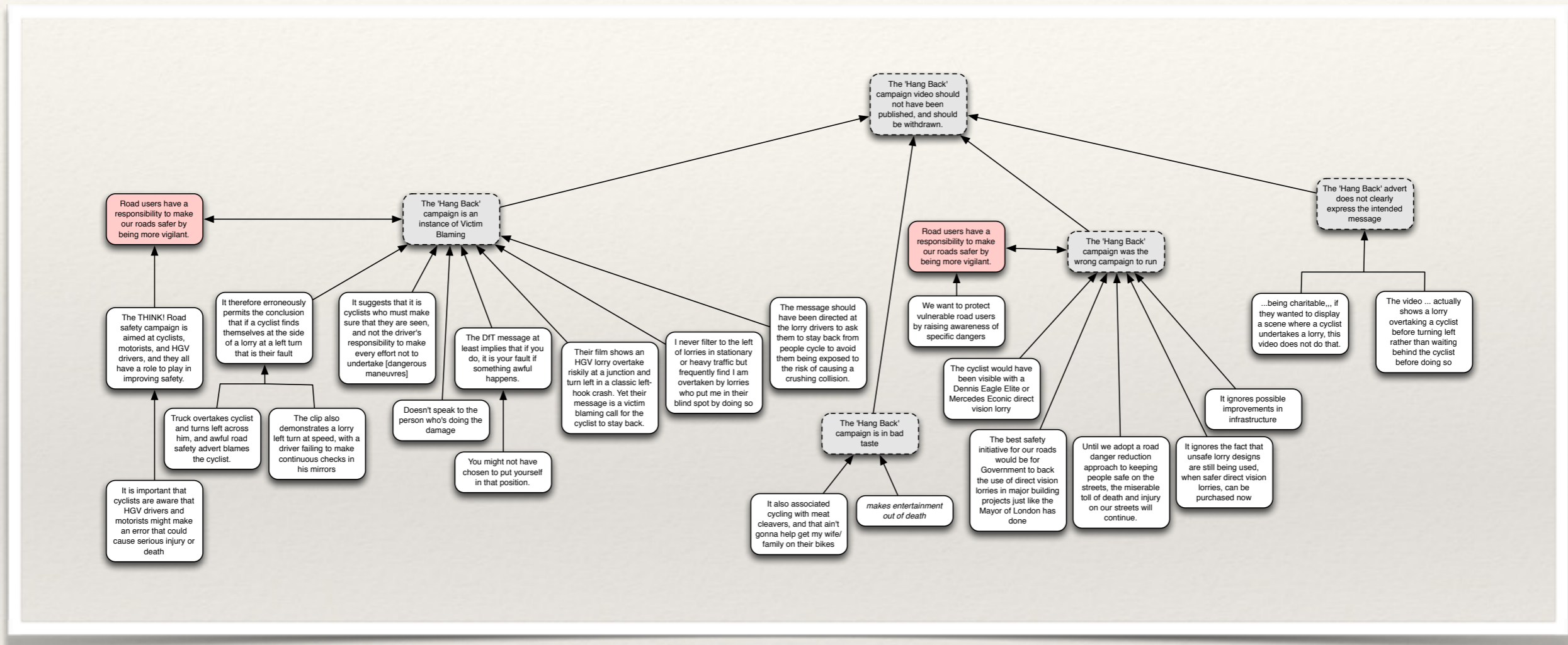
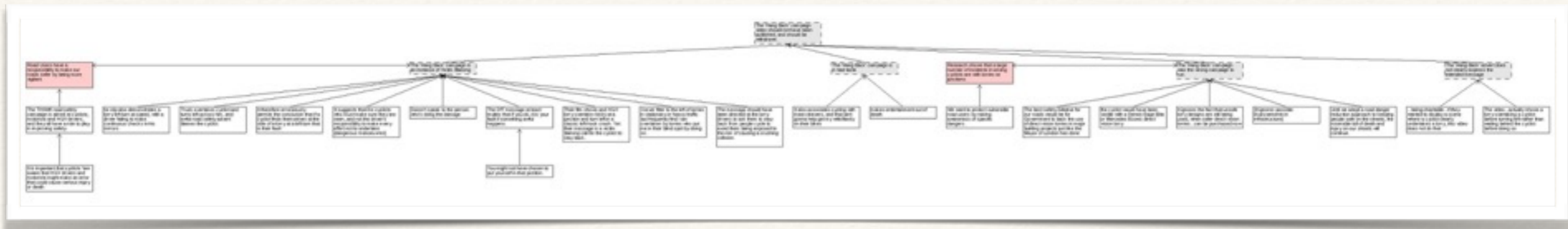
Edinburgh Napier University



"We never set out to build a new argument diagramming tool, it just kind of happened"

Context

STCD
 Old Tech.
 Proprietary Tech.
 New Problems & Directions



"If you're going to build something new to overcome issues, what else could you do?"

Clear Source Upload .txt Save .txt

+ 1

i-dont-believe-in-anthropogenic-
I don't believe in anthropogenic global
warming
 [http://po-ru.com/diary/i-dont-believe-in-anthropogenic-global-warming/]

I don't believe in anthropogenic global warming, because there's no way that six billion people burning millions of years of sequestered carbon could possibly affect the atmosphere of the planet in any measurable way.

I don't believe in anthropogenic global warming because I don't like the arrogant certainty of these scientists with their facts and analyses. The world is more complicated than facts. And anyway, you know who else liked science? Hitler! And Stalin!

I don't believe in anthropogenic global warming because, anyway, I read this article by this one guy who didn't believe in it. And he was a scientist! So, you see, there's no consensus: the jury's still out.

I don't believe in anthropogenic global warming because that hockey stick graph

Unlock Tab Delete Tab

MONKEYPUZZLE

Text Scheme Content Mouseover

<http://www.arg.napier.ac.uk/monkeypuzzle>

MonkeyPuzzle

Araucaria style 2-pane UI pattern
 AIF-style graph visualisation

Features

- ❖ Source-Code - Run it, mess with it, break it, fix it, extend it...
- ❖ Work online or offline
- ❖ Multiple source texts -> Single Analysis
- ❖ Edit text nodes to give a canonical representation
- ❖ Serialise to a simple JSON format
- ❖ Export to PNG & SVG
- ❖ Build on advances in Arg. Theory (e.g. Scheme organisation)
- ❖ Foundation for exploration & extension

Future Work

- ❖ Node Merging
- ❖ Automated Layouts
- ❖ Support for a range of source documents
- ❖ Story maps & dialogue analysis
- ❖ Visualisation at scale

The screenshot displays the MonkeyPuzzle software interface. On the left is a text editor with a title bar containing a plus sign, the number '1', and the number '2'. Below the title bar are buttons for 'Remove', 'Load', 'Edit', and 'Save'. The editor has a 'Title' field with 'Text input' and a 'Content' field containing the text: 'Every Person is going to die. You are a person. You are going to die. If you are going to die then you should treasure every moment. You should treasure every moment.' On the right is a logic diagram with nodes and arrows. The nodes are: 'Every person is going to die', 'You are a person', 'Default Support', 'You are going to die', 'Default Support', 'If you are going to die then you should treasure every moment', and 'You should treasure every moment'. A yellow dot is on the 'You should treasure every moment' node. A control panel with 'add atom', 'add scheme', and 'redraw' buttons is also visible.

Technology Preview

MonkeyPuzzle

Refined User Interface
Automated Layout
Extensible Architecture

To Conclude...

- ❖ Argumentation has a rising profile
- ❖ Argument analysis, representation, & visualisation is not a solved problem
- ❖ Bootstrapping a new tool is difficult
- ❖ Diversification is a sign of a healthy ecosystem
- ❖ ... I see these factors as opportunities