

Argument Analytics: Next Steps for Argument Technology

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<http://arg.tech>

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Who are we?



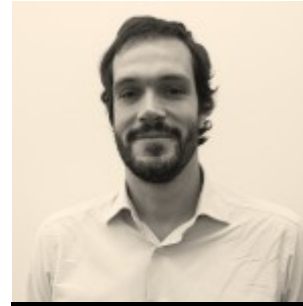
Kasia Budzynska
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Rory Duthie
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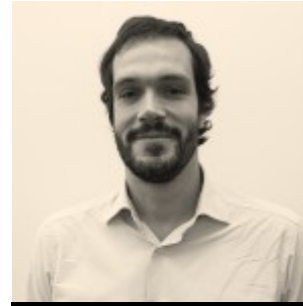
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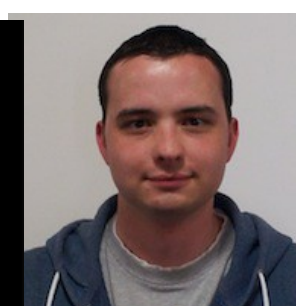
Chris Reed
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ARG-tech
Centre for Argument Technology




The Argument Web


Online Debating



Arguing with...
Various interfaces such as the one in [Scientific](#), for arguing with [Dennis](#), [Aravind](#), and other Argument Web resources.




Arvive
Online debate highlighting and updating Argument Web resources according to dialogue protocols.




Arguing with...
A bookmarklet for representing a simple dialogue protocol involving bloggers in a simple argument structure on their blogs - and on the Argument Web.

DIALOGUE MANAGEMENT PROTOCOLS AND WEB SERVICES


Argument Analysis



ArgumentWeb
Toolchain supports multiple analyses for machine analysis. Results are available on the Argument Web.




The Argument Web is compatible with many analysis tools such as [Aravind](#), [Aravind](#), and [Aravind](#).



OMA Easy to use, online argument analysis. Can export its results to the Argument Web.


The Argument Web
www.argumentinterchange.org



Argument Interchange Format


Web services for import and export to RDF, XML, HTML, JSON, CSV and JSON.

Research Tools




Argument Mining
Building on the increasingly popular technique of opinion mining, argument mining is a new emerging field in machine learning and computational linguistics which seeks to automatically identify arguments and their structure in various classes of text. One current project is using machine learning techniques to try to detect argumentation within and across thousands of pharmaceutical records held in the [Google Books](#) repository.

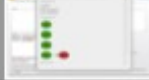
Evaluation Services



DNASee
A graphical interface to [DingO-Metric](#).




DingO-Metric
A graphical interface to [DingO-Metric](#).




TOAST
A graphical interface to [TOAST](#).

Search and Visualisation




Large scale visualisation
Presenting very large arguments, such as legal cases, patent filings and complex systems requires special techniques such as the very large maps created at [Stanford](#) and the [Information Visualisation Lab at Indiana](#) looking at large scale issue networks of data on the Argument Web.

Alifab Search



Alifab Search interfaces to argument web resources, with navigation, search and map-based visualisations. Provides a graphical interface to import and export, and connects to TOAST for evaluation.

Corpus Research



Corpus Research
Provides graphical exploration of the structure of argument and debate domains, machine processing and multiple examples of the theory between thousands of different arguments and related documents. That research large corpora of argument. Data in the Argument Web has been used as corpus in research projects in the UK, US, Canada and Belgium.

The Argument Web at ARG-tech

The screenshot displays the AIFdb Argument Map 789 interface. On the left is a list of arguments, and on the right is a diagram showing the relationships between them.

Argument List (Left Panel):

- 7277:** The present government should be held accountable for the Empire. **ATTACKS:** 7277
- 7279:** This is about a justice and a proper moral evaluation of the past. **ATTACKS:** 7280
- 7280:** This is about pursuing current political goals. **ATTACKS:** 7279
- 7281:** It's important to bring to justice the actual perpetrators of atrocities or war crimes. **ATTACKS:** 7286, 134682, 134708, 134762, 134790, 134835. **SUPPORTS:** 7278
- 7286:** but it's a different matter if courts are being used, as I think they are in this case, as a kind of propaganda exercise against colonialism. **ATTACKS:** 7281. **SUPPORTS:** 7280
- 7293:** and relevant compensation and if we fail to learn from the mistakes of the past, we are more likely to repeat them. **SUPPORTS:** 7278
- 7296:** but I believe that those who have suffered oppression have a right to a hearing. **ATTACKS:** 7293
- 7299:** There might be a right to compensation in this case, where the evidence is pretty clear.

Diagram (Right Panel):

The diagram illustrates the relationships between these arguments. It features several nodes (represented by boxes) and connections (represented by arrows). Nodes are color-coded: green diamonds for supports and red diamonds for attacks.

- Node 7277 (Green Diamond):** "The present government should be held accountable for the Empire."
- Node 7279 (Green Diamond):** "This is about a justice and a proper moral evaluation of the past."
- Node 7280 (Green Diamond):** "This is about pursuing current political goals."
- Node 7281 (Green Diamond):** "It's important to bring to justice the actual perpetrators of atrocities or war crimes."
- Node 7286 (Green Diamond):** "but it's a different matter if courts are being used, as I think they are in this case, as a kind of propaganda exercise against colonialism."
- Node 7293 (Green Diamond):** "and relevant compensation and if we fail to learn from the mistakes of the past, we are more likely to repeat them."
- Node 7296 (Green Diamond):** "but I believe that those who have suffered oppression have a right to a hearing."
- Node 7299 (Green Diamond):** "There might be a right to compensation in this case, where the evidence is pretty clear."
- Node 7280 (Red Diamond):** "This being the mess, a major injustice was committed, a legal remedy exists, what's wrong with doing the British thing, owning up and paying up?"
- Node 7281 (Red Diamond):** "why should they seek civilian - why should they seek reparation against a government which had nothing to do with it, and if you agree that people should be able to seek civilian reparation decades on, then there's no end to it."
- Node 7293 (Red Diamond):** "but I think to be fair to them, what they were saying was that atrocities should be - that war crimes or atrocities perpetrated against civilians should be - that justice should be done regardless of limit of time but again, the point made by"
- Node 7296 (Red Diamond):** "No, and that was clearly absurd and offensive insofar as they made that connection,"
- Node 7299 (Red Diamond):** "Isn't the problem there are not v perpetrators"

Connections between nodes:

- 7277 attacks 7280 and 7293.
- 7279 attacks 7280.
- 7280 attacks 7279 and 7281.
- 7281 attacks 7286 and 7293.
- 7286 attacks 7281.
- 7293 attacks 7281 and 7296.
- 7296 attacks 7293.
- 7280 (Red Diamond) attacks 7281 (Red Diamond).
- 7281 (Red Diamond) attacks 7293 (Red Diamond).
- 7293 (Red Diamond) attacks 7296 (Red Diamond).
- 7296 (Red Diamond) attacks 7299 (Red Diamond).
- 7299 (Red Diamond) attacks 7296 (Red Diamond).

The Argument Web at ARG-tech

The screenshot shows the AIFdb Corpora website interface. At the top, there is a dark header with the AIFdb logo and the word "Corpora" on the left, and a search bar on the right. Below the header, there is a button labeled "+ Create New Corpus". The main content area displays a list of corpora, each with a title, a brief description, a download link (tar.gz | zip), and the number of argument maps. The corpora listed are: DbyD Argument Study (112 argument maps), Dispute mediation (129 argument maps), Moral Maze British Empire (33 argument maps), AraucariaDB (661 argument maps), and Moral Maze Morality of Money (53 argument maps).

Corpus Name	Description	Download	Argument Maps
DbyD Argument Study	A selective study of argument in the philosophy of animal psychology from the Hathi Trust collection.	tar.gz zip	112 argument maps
Dispute mediation	Argument maps of mediation sessions transcripts	tar.gz zip	129 argument maps
Moral Maze British Empire	Argument maps of a BBC Moral Maze episode	tar.gz zip	33 argument maps
AraucariaDB	Import of the database of Araucaria analyses	tar.gz zip	661 argument maps
Moral Maze Morality of Money	Argument maps of BBC Moral Maze episode	tar.gz zip	53 argument maps

corpora.aifdb.org

The Argument Web at ARG-tech

The screenshot displays the OVA web application interface. On the left, a text document is shown with several lines highlighted in green. On the right, an argument web diagram visualizes the structure of the text, consisting of nodes and connecting edges.

Text Document (Left Panel):

Now, I believe this is capable of reform if we introduce codes, if we stigmatise bad behaviour, if we set about within organisations making sure the codes are adhered to. I would give, as one example of an organisation that's changed, the BBC actually, which now tends to be pretty truthful even if only because it wasn't in the past. John Reynolds: I largely agree with you. I think the interesting thing is that banks do have codes of ethics, but to the extent they have them they are incredibly disappointing, if not total crap. They don't explain what ethical behaviour is, and by and large a large chunk of the codes of ethics - as they're supposedly called - actually protects shareholders and doesn't protect customers. And they aren't really implemented in any sensible way within the institutions. I also think - just one very quick comment - I also think they have to be enforced from outside. I think there has to be an external push as well as an internal code!

Argument Web Diagram (Right Panel):

The diagram illustrates the argument structure with the following nodes and relationships:

- Nodes:** Blue boxes containing text segments, yellow boxes labeled "Asserting" or "Arguing", and purple boxes labeled "Default Transition".
- Relationships:** Arrows indicate the flow of the argument. "Asserting" edges connect a claim to its support. "Arguing" edges connect a claim to its goal. "Default Transition" edges connect related claims.

Diagram Content:

- Top Row:** "banks do have codes of ethics, but to the extent they have them they are incredibly disappointing, if not total crap" (left) is supported by "John : I think the interesting thing is that banks do have codes of ethics, but to the extent they have them they are incredibly disappointing, if not total crap" (right) via an "Asserting" edge.
- Second Row:** "They don't explain what ethical behaviour is" (left) is supported by "John : They don't explain what ethical behaviour is" (right) via an "Asserting" edge. A "Default Inference" node (left) is connected to this claim via an "Arguing" edge. A "Default Transition" node (right) is connected to the John claim via a "Default Transition" edge.
- Third Row:** "by and large a large chunk of the codes of ethics - as they're supposedly called - actually protects shareholders and doesn't protect customers" (left) is supported by "John : and by and large a large chunk of the codes of ethics - as they're supposedly called - actually protects shareholders and doesn't protect customers" (right) via an "Asserting" edge. A "Default Inference" node (left) is connected to this claim via an "Arguing" edge. A "Default Transition" node (right) is connected to the John claim via a "Default Transition" edge.
- Fourth Row:** "they aren't really implemented in any sensible way within the institutions." (left) is supported by "John : And they aren't really implemented in any sensible way within the institutions." (right) via an "Asserting" edge. A "Default Inference" node (left) is connected to this claim via an "Arguing" edge. A "Default Transition" node (right) is connected to the John claim via a "Default Transition" edge.
- Fifth Row:** "they have to be enforced from outside." (left) is supported by "John : I also think they have to be enforced from outside." (right) via an "Asserting" edge. A "Default Inference" node (left) is connected to this claim via an "Arguing" edge. A "Default Transition" node (right) is connected to the John claim via a "Default Transition" edge.
- Sixth Row:** "I think there has to be an external push as well as an internal code" (left) is supported by "John : I think there has to be an external push as well as an internal code" (right) via an "Asserting" edge. A "Default Inference" node (left) is connected to this claim via an "Arguing" edge. A "Default Transition" node (right) is connected to the John claim via a "Default Transition" edge.

The Argument Web at ARG-tech

argublogging.com

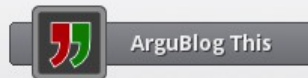
ArguBlogging

from ARG:dundee

ArguBlogging allows you to agree and disagree with opinions expressed anywhere online. Your arguments are presented not just as text, but also as elements of the [Argument Web](#): a richly structured interconnected web of debates and disputes, arguments and counterarguments. The arguments you contribute via argublogging can be used by other Argument Web tools to automatically express opinions, to teach students how to think better, to help the public navigate complex issues, and to conduct academic research into the way argument works.

Try ArguBlogging as a guest

Drag the guest bookmarklet to your bookmark toolbar:



Select some text on a web page, and click the ArguBlogging button to start argublogging and see the result on the [guest blog](#).

Register for ArguBlogging

Give your email and a password so that we can store OAuth keys that allow argublogging to post to your blog

Email:

Password:

Register >>

[Already registered?](#)

The application currently supports two popular blogging platforms: tumblr and Blogger. Publishing permissions are handled using OAuth, so there is never any need for you to provide us with your passwords – just grant the argublogging application access to your blog when prompted.

When you encounter text online with which you want to agree or disagree, highlight it, and click the ArguBlogging button. After posting your opinion to your blog, you can also view it as a part of a conversation in the ever growing debate that is the Argument Web.

The Argument Web at ARG-tech

argublogging.com

arvina.arg.tech

The screenshot displays the Arvina web application interface. At the top left, the 'ArguBlogging' logo is visible, with the text 'from ARG:dundee' to its right. Below this, a browser window shows the URL 'arvina.arg.tech/dialogue.php?d=946&p=1425&n=6'. The main content area features the 'arvina' logo and a 'Participants' sidebar on the left. The sidebar lists: Mary Test, ConfBias Agent, InfCrit Agent, CausBias Agent, and David Test. Below the sidebar is a 'Live Discussion Map' with a small graph and a 'Click to view' link. The main discussion area contains several entries:

- Mary Test**: How do we know that "we know X and Y met in June"?
- David Test**: Informant Report: "we know X and Y met in June" because of "Z has told us that he saw them meet"
- InfCrit Agent**: Vested interest "Do they have anything to gain by claiming that?"
- Mary Test**: Support: "Do they have anything to gain by claiming that?" because "X and Z are in competition for the ministerial post"
- ConfBias Agent**: Is there any evidence for thinking it's not the case that "we know X and Y met in June"?

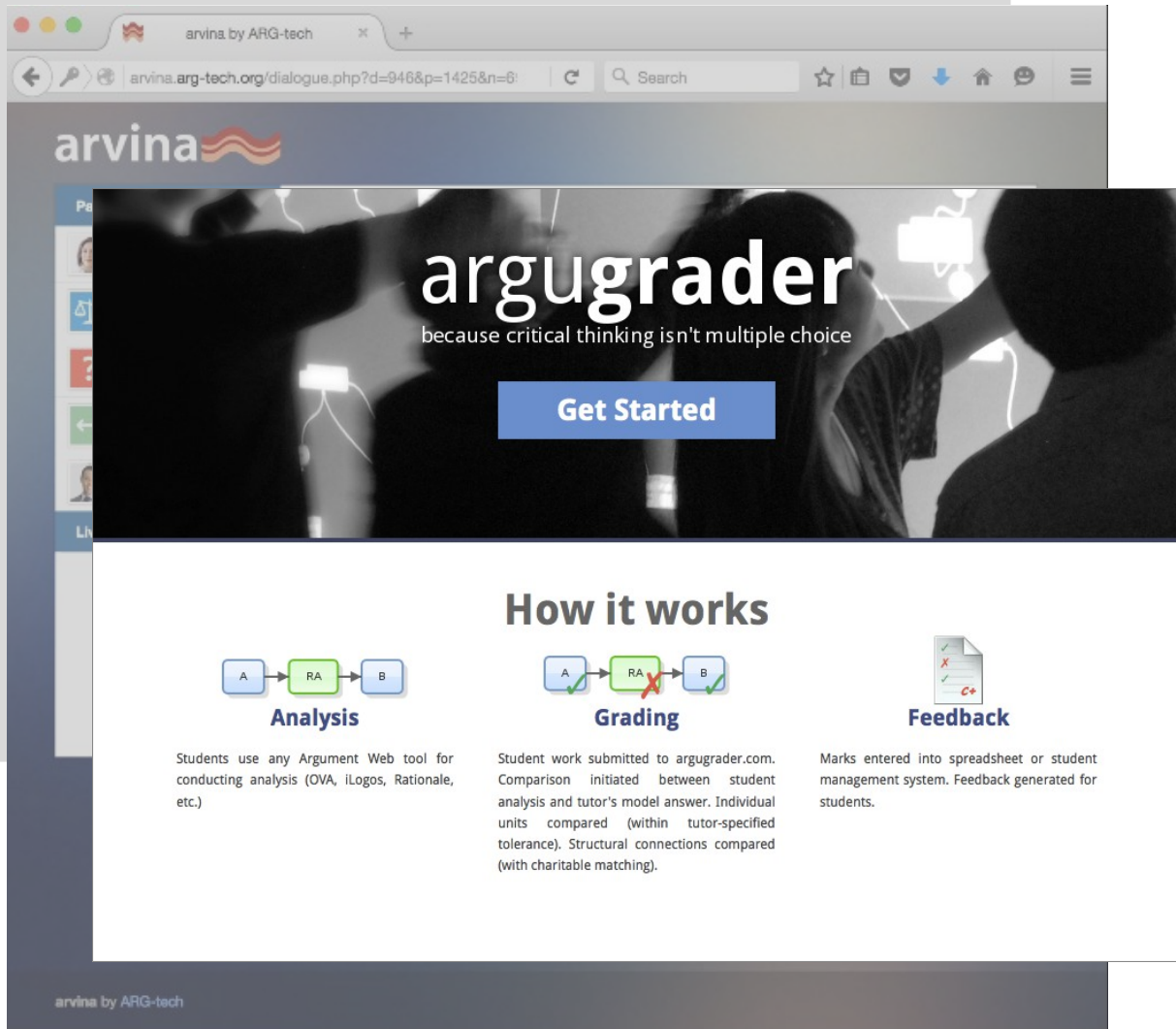
At the bottom of the discussion area, there is a 'PROCESSING' status bar with a progress indicator. The footer of the page reads 'arvina by ARG-tech'.

The Argument Web at ARG-tech

argublogging.com

arvina.arg.tech

argugrader.com



The screenshot shows a web browser window with the URL `arvina.arg-tech.org/dialogue.php?d=946&p=1425&n=6`. The page features the 'arvina' logo and a large banner for 'argugrader' with the tagline 'because critical thinking isn't multiple choice' and a 'Get Started' button. Below the banner is a section titled 'How it works' with three columns: 'Analysis', 'Grading', and 'Feedback'. Each column includes a diagram and a descriptive paragraph.

Analysis

Students use any Argument Web tool for conducting analysis (OVA, iLogos, Rationale, etc.)

Grading

Student work submitted to `argugrader.com`. Comparison initiated between student analysis and tutor's model answer. Individual units compared (within tutor-specified tolerance). Structural connections compared (with charitable matching).

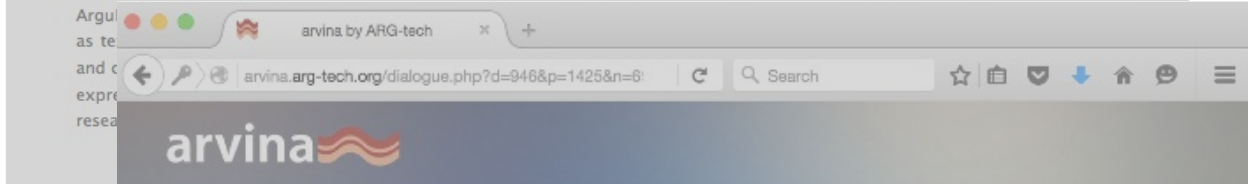
Feedback

Marks entered into spreadsheet or student management system. Feedback generated for students.

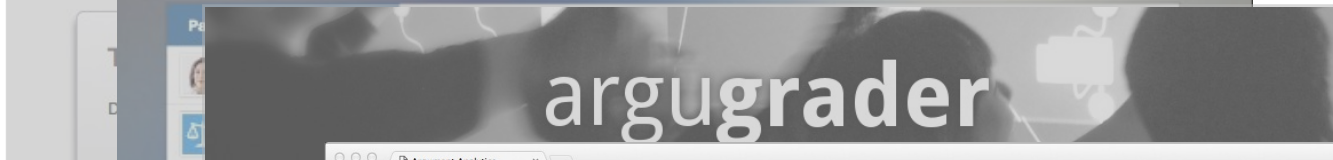
The Argument Web at ARG-tech



argublogging.com



arvina.arg-tech



argugrader.com



analytics.arg-tech.org

The Argument **Web** at ARG-tech

On the AIFdb servers at ARG-tech:

- Around 50 argument corpora
- 1.5m words
- 14 languages
- 50k annotated arguments
- 300-500 unique users per month

Online Debating



Arguing with...
Various interfaces such as the one in SecondLife, for arguing with Dementia, Aristotle, and other Argument Web resources.



Avatars
Online debate navigating and updating Argument Web resources according to digital avatars.



Argublogging
A bookmarklet implementing a simple desktop protocol enabling bloggers to create argument structures on their blogs and on the Argument Web.

Argument Analysis



Analysistouch
Touchscreen supports multiple analysis for real-time analysis. Results are available on the Argument Web immediately.

The Argument Web is compatible with many analysis tools such as **Analysistouch**, **Fullmate** and **Cartesian**.



The Argument Web

Inference Anchoring Theory

$$L_x^b \downarrow \text{asserting}_k(\phi)$$

$$L_y^w \downarrow \text{assertivechallenging}_l(\psi)$$

$$b \neq w;$$

$$T(L_x^b, L_y^w) \downarrow \text{arguing}_m(\phi \vdash \psi)$$

Research Tools



Argument Mining
Building on the landmark technique of opinion mining is a new, emerging machine learning and AI linguistics which seeks to identify arguments and it is various classes of text project is using AI? these argument schemes is an machine learning based detect argumentation in thousands of paragraphs. The Google Books report.

See: [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24] [25] [26] [27] [28] [29] [30] [31] [32] [33] [34] [35] [36] [37] [38] [39] [40] [41] [42] [43] [44] [45] [46] [47] [48] [49] [50] [51] [52] [53] [54] [55] [56] [57] [58] [59] [60] [61] [62] [63] [64] [65] [66] [67] [68] [69] [70] [71] [72] [73] [74] [75] [76] [77] [78] [79] [80] [81] [82] [83] [84] [85] [86] [87] [88] [89] [90] [91] [92] [93] [94] [95] [96] [97] [98] [99] [100]



Corpus Research

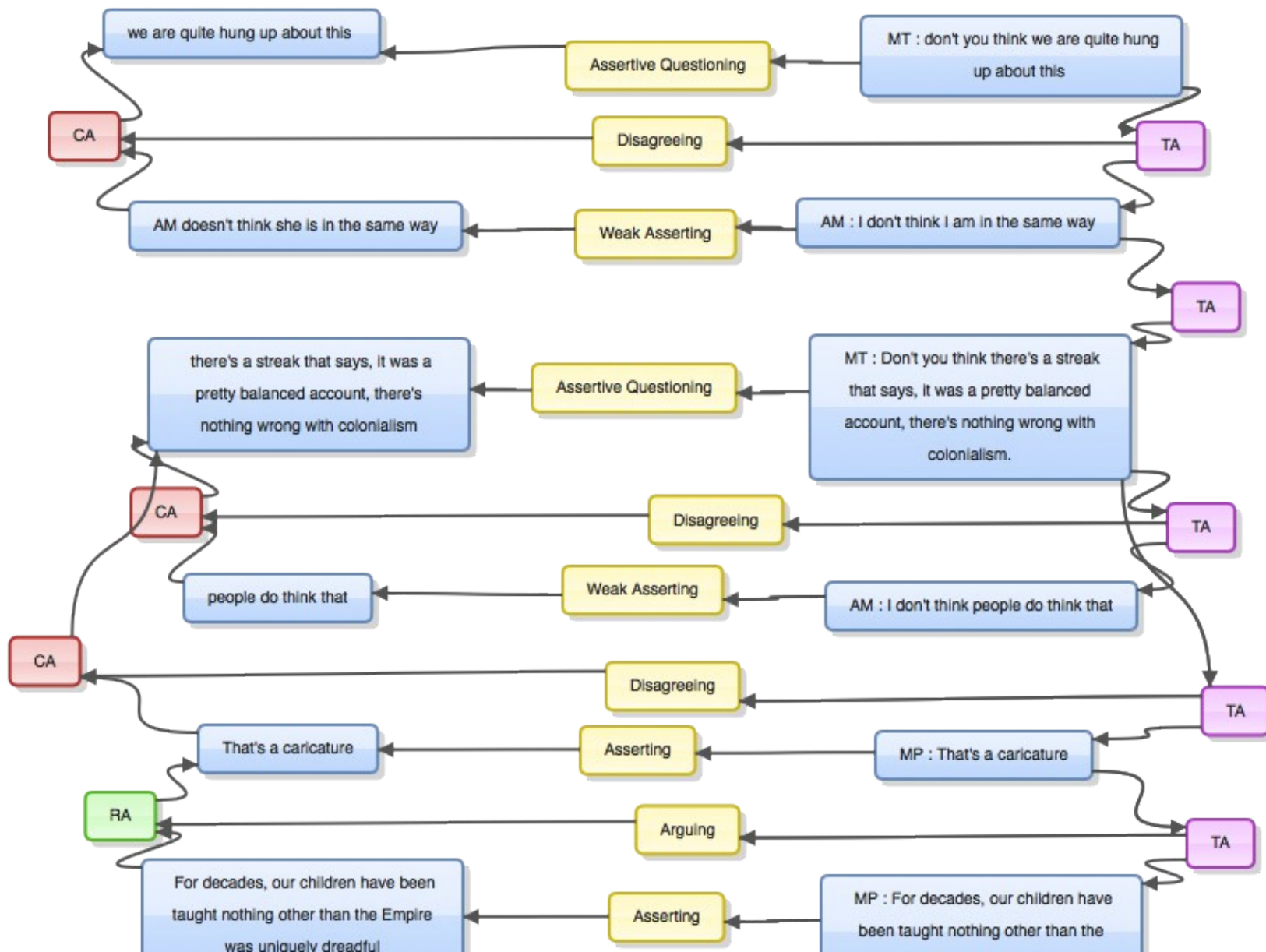
Rigorous empirical exploration of the structure of argument and debate demands statistical processing and multiple examples of the theory between thousands of different argumentative and rhetorical techniques. This requires large corpora of argument. Data in the Argument Web has been used as corpus in research projects in (at least) the UK, US, Canada and Belgium.



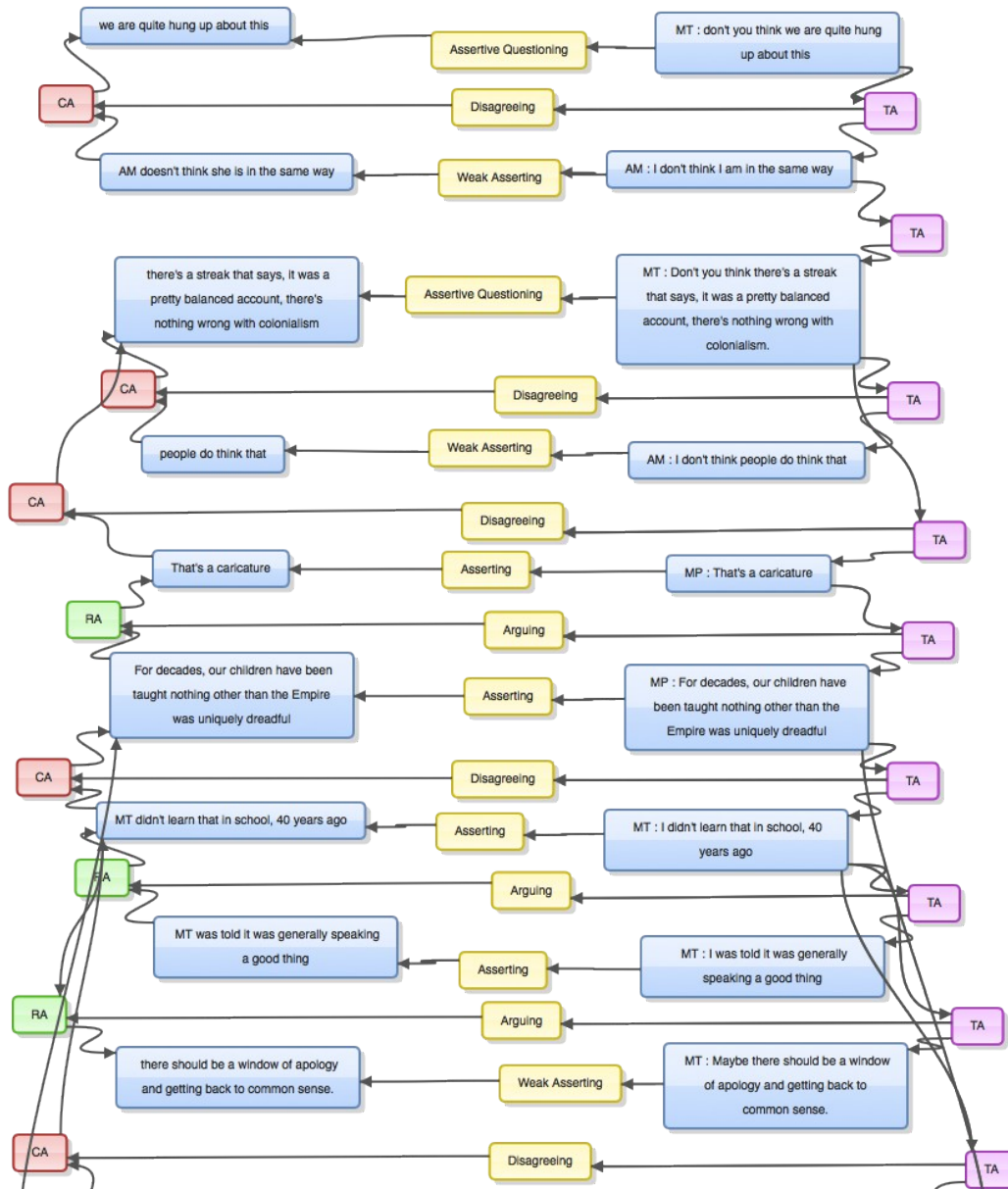
Analysistouch

Analysistouch is a research tool with proposition-based and mapped visualisations. Provides a graphical interface to input and output, and connects to CAST for evaluation.

Inference Anchoring Theory (Budzynska & Reed 2011)



Dialogical context + argument graph



Good evening, the Empire was born in what on trial in the High Court this week, not the Empire that at its height ruled three quarters of the planet, but the one that had lost its power and purpose in two world wars and was struggling against the burgeoning nationalism of its subjects and would soon give it up in a rush to decolonise. Three fair and elderly Kenyans claim they were tortured in one of the last imperial campaigns against the murderous Mau Mau uprising rebellion in the 1950s. In court this week the government accepted they had been mistreated in British custody. It was a dry war on both sides. The Britan' hanged more than 1,000 terrorists and detained tens of thousands of suspects who were held in a network of offices, compounds and barracks around the world. The Foreign Office has done all it can to prevent the trial taking place and is arguing it's too long ago for the evidence to be reliable. It's a focused legal case, not a focused legal case. The issues and implications are wider than that. Is it right to make moral judgments about the past through the prism of our modern sensibilities? Should we be held responsible for the sins of Empire and if so where exactly is that? That's our Moral Maze tonight. The panel, Melanie Phillips, social commentator on the Daily Mail, Anne McElroy, public policy editor of The Economist, The Catholic writer Clifford Longley and Matthew Taylor, formerly Tony Blair's chief political adviser, now chief executive of the RSB. Melanie, these people may get damages but a historical justice being served here? It's important to bring to justice the actual perpetrators of atrocities or war crimes but it's a different matter if courts are being used, as I think they are in this case, as a kind of propaganda exercise against colonialism. Matthew Taylor, I think there is a danger of using history as a political football but I believe that those who have suffered oppression have a right to a hearing and relevant compensation and if we fail to learn from the mistakes of the past, we are more likely to repeat them. There might be a right to compensation in this case, where the evidence is pretty clear, but in general the attempt to deal with the colonial period through the judicial system isn't the right way to do it and it tends to be about political evasions in the present clarity about the past. Don't see any problem with that. On the right thing, even though it's late in the day, but an injustice was committed and it can be corrected and therefore should be. The broader question of whether this should become a kind of symbolic moment, I don't think ought to apply. That might get in the way of justice being done and that's what courts. There you very much indeed. Our first witness is Esther Stank-Koase, a community advocate and reparations. I am tempted to ask you what that is, but I am going to ask you the broader question. You have been in court watching this hearing. What's going on here? It's a case for damages or a moral inquiry on Empire? It's a case for damages as a result of the torture that the three claimants who are surviving experienced. The solicitors for the claimants in terms of their public strategy, their public relations strategy, have made it very clear, this is not a colonial reparations case. It is a very specific context, there are very specific victims. Of course, it does have a wider kind of interest to all of us here today from your point of view, even if this hearing itself or the damages claims by these three individuals are concerned, should it be the occasion for examining the colonial legacy? Most definitely. In fact, some of you would argue the case doesn't go far enough because the colonial context is absent and without recognizing colonialism, it's very hard to understand what actually took place. You said you were also speaking with victims and that's an important part of the case. Surely that requires a very different approach. You said you were also speaking with victims and that's an important part of the case. Surely that requires a very different approach. You said you were also speaking with victims and that's an important part of the case. Surely that requires a very different approach.

It would be much-footed. Of course, there is a victim in specific cases, we have to acknowledge that there are survivors, who have never experienced any form of recompense, you know, these are elderly victims, they do need to be compensated for the crimes that were committed against them. However, we must not lose sight of the fact that they represent a class of people, and there are many other survivors who do not currently have access to justice. So I think look at the colonial era. We also know that there were atrocities on both sides, including in the big group of people that you've just referred to, so would you be also saying that to face trial for atrocities committed against settlers and British service personnel at the time? How I would answer that I would look at the context. This was a war of liberation. Actually it was an unjust war that was being leveled against the Africans. They were dispossession of their land, and which began formally, in terms of the carving up of Africa, so unless we look at this border context, so in that sense, any African at that time cannot claim a crime against it. It's committed in it, not saying that. But we cannot lose away the fact that these were people who were wrong fighting to reclaim their lost lands, and it was a freedom struggle. And here is the where does that take you in terms of more responsibility than it is, pretty much anything allowed to them because it was a struggle of liberation and I would refute the notion that these were terrorists. I think that was a label that was put on them and it was a label that was very loaded and of course when you classify people as terrorists then you are seeking to dehumanise them. So the guilt is on the side of the colonial power. We have to go to the roots of the problem. We don't look at it halfway through. So it's a symbolic case, to open a wider door, to serve some people that it. For you? For me it is actually very significant, because I think that we are forced to engage in this conversation, we are forced to do the analysis that the lawyers I want to come to next. The kind of blanket entitlement to a judicial approach to things that happened in the past is usually reserved for criminal regimes, like the Third Reich. Is not the case that you are strengthening your definition in order to make the British Empire fit into that? Well, actually, speak to those who are survivors. They did see this as being being under the Third Reich in effect. You think that as well? Yes, I certainly do. Melanie Phillips? You say in this case there are specific victims, isn't the problem though that there are not very specific perpetrators? Why should the present government of Britain be held responsible for responsibility for the these atrocities of its predecessor administration many decades ago? I disagree that there were not specific perpetrators. Obviously we cannot for legal reasons go into sort of identifying individuals, why the current government of today should be held liable is because there is an outstanding crime that has been committed, these were not only, you know, crimes of torture, there were war crimes committed, there were crimes against humanity. My understanding of international law is that there is no statute of limitations. I think it would be totally different if the survivors had all died. But actually, you have living victims, understand your point and of course there are living victims and no one would deny that they were treated in an appalling way, but you have just muddled up civil and criminal cases. I mean, there's no statute of limitations for murder, and one can certainly say - this is my point, if there are specific perpetrators, if you have a tyant, if you have a group of military officers who are accused of committing a war crime, then for sure, there should be no statute of limitations in prosecuting them. You have a specific perpetrator. But here you don't have specific perpetrators. What's happening in this case is not the prosecution of a crime, it is a claim for compensation against the present government, which had no responsibility for what happened. Isn't that a source of reaction? Definitely not. They do bear responsibility. Because those liabilities actually transferred back to the British Government, certainly that would not be the British Government's view, but that would be the view of the claimants and their representatives. And also the current government of Kenya. You also want to see the record state, and that - straight and context is very important but can I come back to this point. Anne was asking about? It does seem to me that you are in fact saying that the context is colonialism but one could equally say that the context has never been carried out by agents of the British Government. In the context was the association being carried out against them by the Mau Mau. Why are you being so pedantic about your context? It's only for you, colonialism, that is on trial here, not the behaviour of the insurgents at the time. Why is that? Actually, that's not correct. There's not what I stated. We're looking at this case in a multiple ways. It's a specific case but I was also giving wider views around the importance of this case. And we have to look at it in that way. So the wider context I actually go back to what I said in the beginning, it is the colonial dispossession, and so yes, there were insurgents as you would call them, we would say freedom fighters, and they did what they had to do in order to maintain a liberation struggle. And that is not something that is foreign to British history. We must stop it there. I am afraid. Esther Stank-Koase, thank you very much indeed. Our next witness is Lawrence James, who is a historian and author of The Savage Wars, British campaigns in Africa, 1870-1920 and imperial rear guard, the last wars of Empire, squarely in this particular area. What do you think is going on here? It's an attempt, if you like, of retrospective moral judgments, and these problems with that? Always have a problem of judging the past by our values. It seems to me a mixture of atonement and absurdity. Okay, Matthew Taylor? I don't see really what the problem is here. There are three people who it seems very likely suffered, they suffered in the context of imprisonment possibly, the way they suffered was a crime, in almost any jurisdiction in the world it would be seen as a crime, they have the context they can go to the court and sue for damages. I think it's not by any means a moral issue. The context they can go to the court and sue for damages. I think it's not by any means a moral issue. The context they can go to the court and sue for damages. I think it's not by any means a moral issue. The context they can go to the court and sue for damages.

DECOLONIZE THE BRITISH EMPIRE

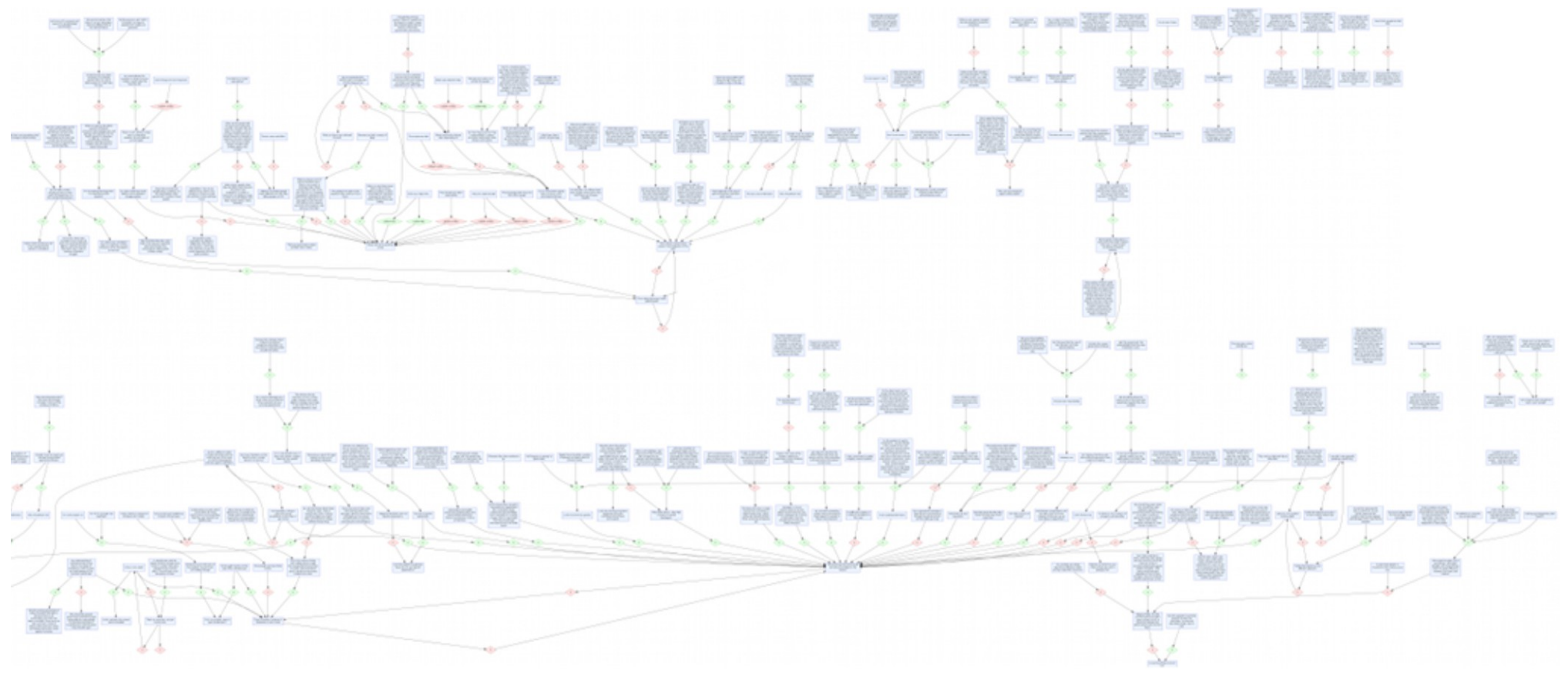
18/07/2012 - The British Empire

Matthew Taylor, I think there is a danger of using history as a political football but I believe that those who have suffered oppression have a right to a hearing and relevant compensation and if we fail to learn from the mistakes of the past, we are more likely to repeat them. There might be a right to compensation in this case, where the evidence is pretty clear, but in general the attempt to deal with the colonial period through the judicial system isn't the right way to do it and it tends to be about political evasions in the present clarity about the past. Don't see any problem with that. On the right thing, even though it's late in the day, but an injustice was committed and it can be corrected and therefore should be. The broader question of whether this should become a kind of symbolic moment, I don't think ought to apply. That might get in the way of justice being done and that's what courts. There you very much indeed. Our first witness is Esther Stank-Koase, a community advocate and reparations. I am tempted to ask you what that is, but I am going to ask you the broader question. You have been in court watching this hearing. What's going on here? It's a case for damages or a moral inquiry on Empire? It's a case for damages as a result of the torture that the three claimants who are surviving experienced. The solicitors for the claimants in terms of their public strategy, their public relations strategy, have made it very clear, this is not a colonial reparations case. It is a very specific context, there are very specific victims. Of course, it does have a wider kind of interest to all of us here today from your point of view, even if this hearing itself or the damages claims by these three individuals are concerned, should it be the occasion for examining the colonial legacy? Most definitely. In fact, some of you would argue the case doesn't go far enough because the colonial context is absent and without recognizing colonialism, it's very hard to understand what actually took place. You said you were also speaking with victims and that's an important part of the case. Surely that requires a very different approach. You said you were also speaking with victims and that's an important part of the case. Surely that requires a very different approach. You said you were also speaking with victims and that's an important part of the case. Surely that requires a very different approach.

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Argument Analytics



Argument Analytics



Dialogically oriented analytics

- Overview
- Dialogue
- Graph Properties
- Detailed Statistics
- Comparative Properties

NodeSet 732 – Dialogue

LOCUTIONS

62

PARTICIPANTS

6

YA NODES

62

[Details](#)

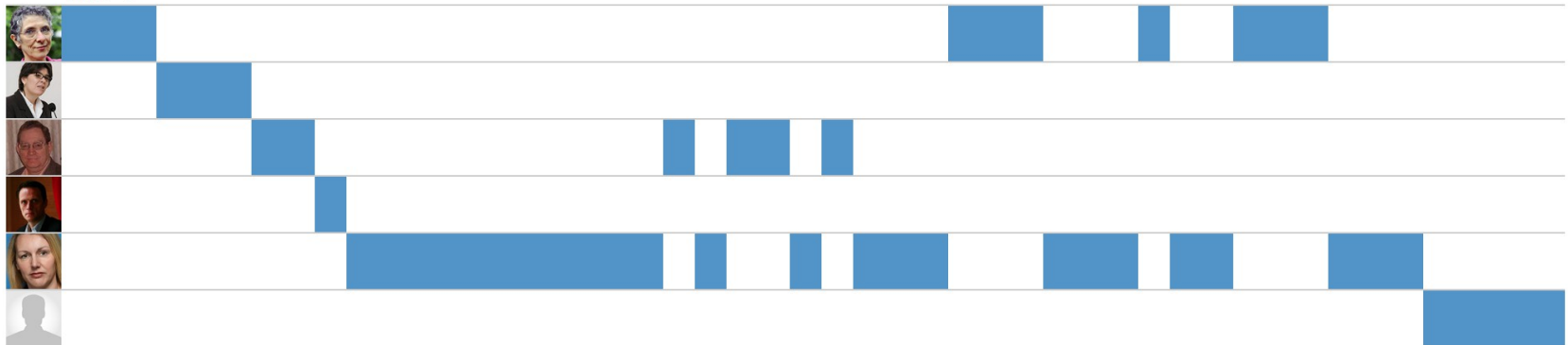
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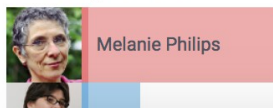
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Turns

Time →



Participation

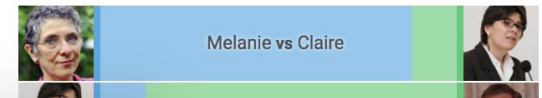


Stimulating?

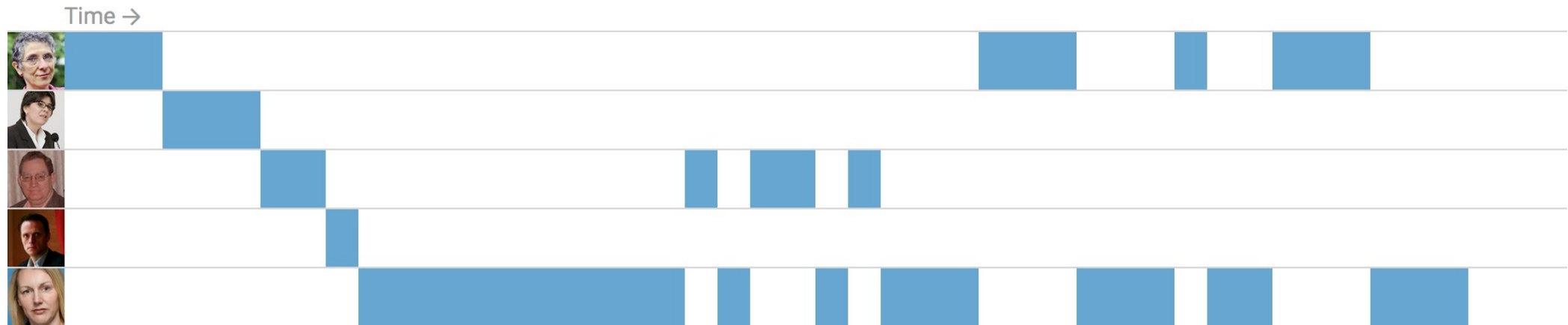
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Sway

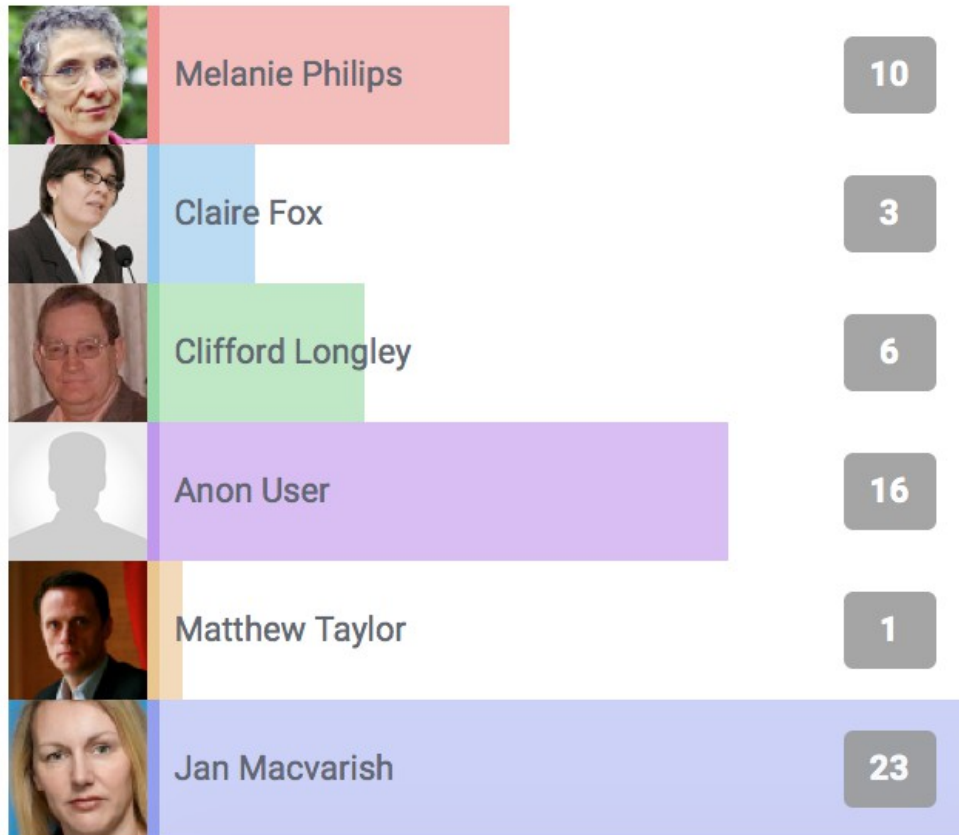


Dialogically oriented analytics: Turn structure

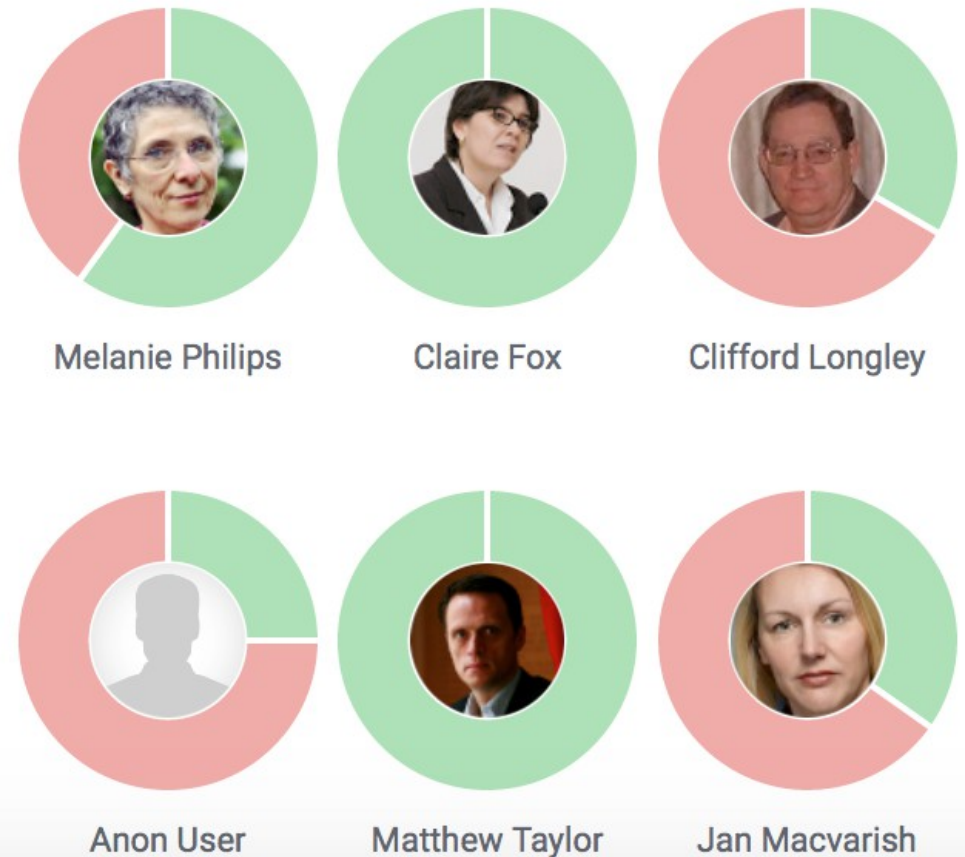


Dialogically oriented analytics: Participants details

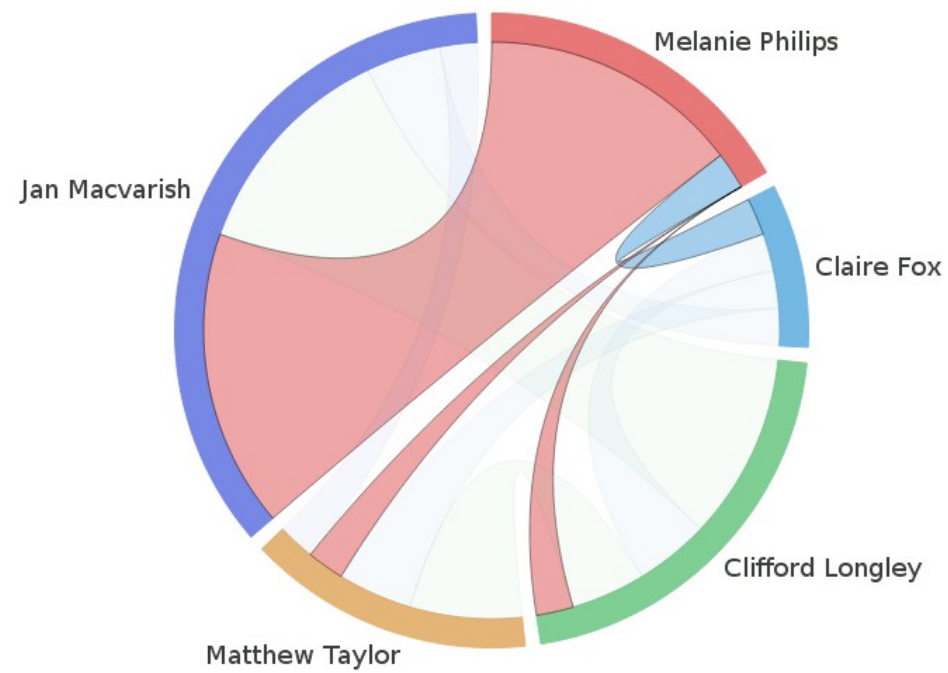
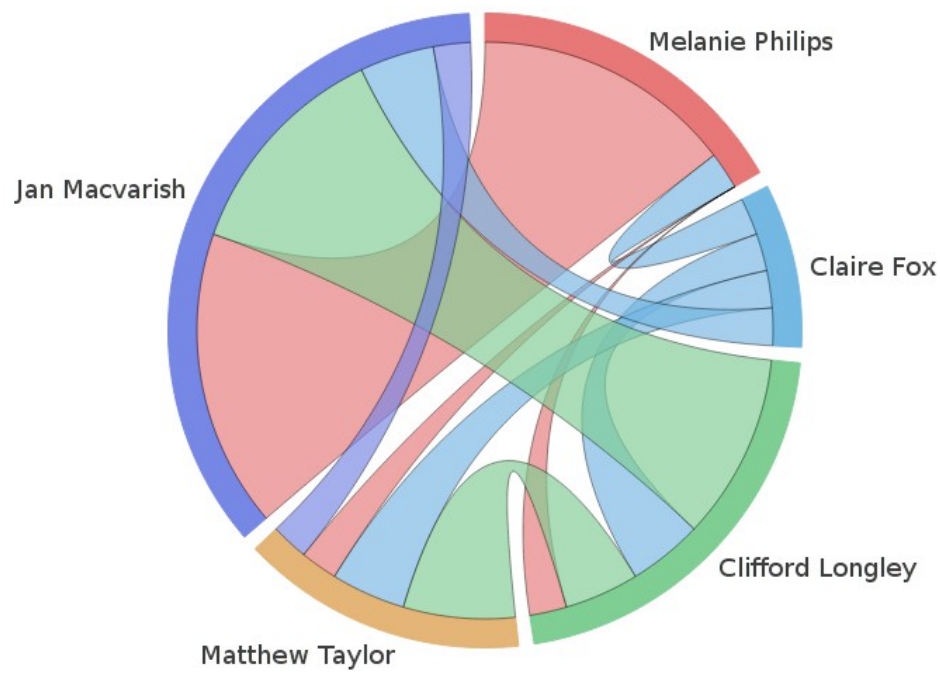
Participation



Stimulating?



Dialogically oriented analytics: Interactions



Real-time statistics

BESiDE Dialogue Tool

Supporting Purposeful Conversations about Care homes



Stop Recording

Chris Reed

Reply about Location

John Lawrence

Ask a question about Location

Segment

BESiDE

Built Environment for Social Inclusion
through the Digital Economy

John Lawrence

0mins 0secs

Ask for a reason

Ask a question about Location

Ask a question about Routes through Care Home

Ask a question about Internal Environment

Ask a question about Stimulation and Activities

Ask a question about Personalisation

Ask a question about Seating

Ask a question about Communication

Ask a question about Thresholds

Ask a question about External Environment

0mins 8secs

Real-time statistics

[Click to view Argument Map »](#)

Transcript



Fiona Welch

Ask a question about Stimulation and Activities



Paul Rowley

Reply about Stimulation and Activities



Fiona Welch

Ask a question about Stimulation and Activities



Paul Rowley

Reply about Stimulation and Activities



Fiona Welch

Ask a question about Stimulation and Activities



Paul Rowley

Reply about Stimulation and Activities



Denise McCorkindale

Reply about Stimulation and Activities

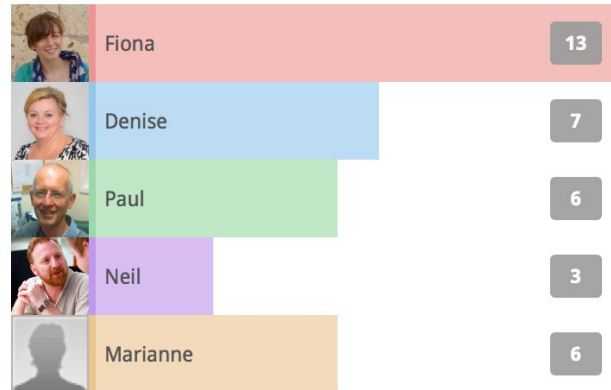


Current Topic: External Environment

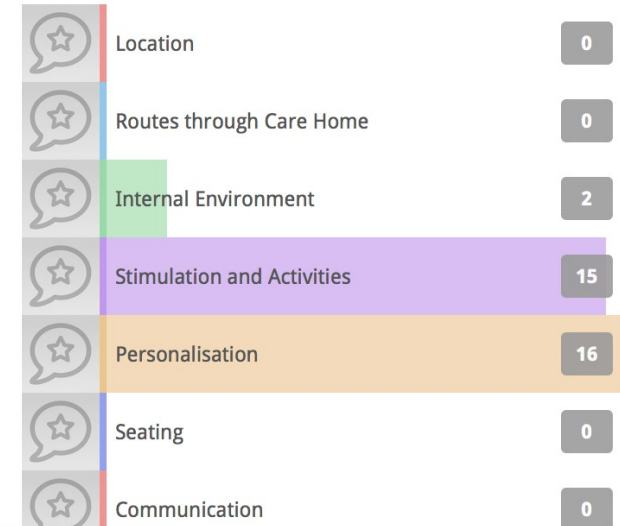
- ✗ Location
- ✗ Routes through Care Home
- ✗ Seating
- ✗ Communication
- ✗ Thresholds

- ✓ Internal Environment
- ✓ Stimulation and Activities
- ✓ Personalisation
- ✓ External Environment

Speakers



Topics



Summary

- **Foundations**

- Inference Anchoring Theory: Dialogical context of structured arguments
- Argument Web: Online ecosystem of argument technologies

- **Argument analytics**

- Automatic visualisation and sense-making of argument structure in dialogue
- Variety of applications: debates in media, deliberative democracy, legal proceedings
- Ethos analytics: authority in legal argumentation

Thank you!



Find out more at
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