

Building a Visual Editor for Wikipedia

Trevor Parscal and Roan Kattouw



Wikimania D.C. 2012





Trevor Parscal

Lead Designer and Engineer
Wikimedia



Roan Kattouw

Data Model Engineer
Wikimedia



Rob Moen

User Interface Engineer
Wikimedia



Inez Korczynski

Edit Surface Engineer
Wikia



Christian Williams

Edit Surface Engineer
Wikia



James Forrester

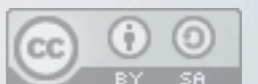
Product Analyst
Wikimedia



The People



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Parsoid Team



Gabriel Wicke

Lead Parser Engineer
Wikimedia



Subbu Sastry

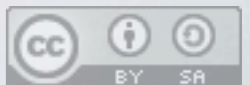
Parser Engineer
Wikimedia



The People



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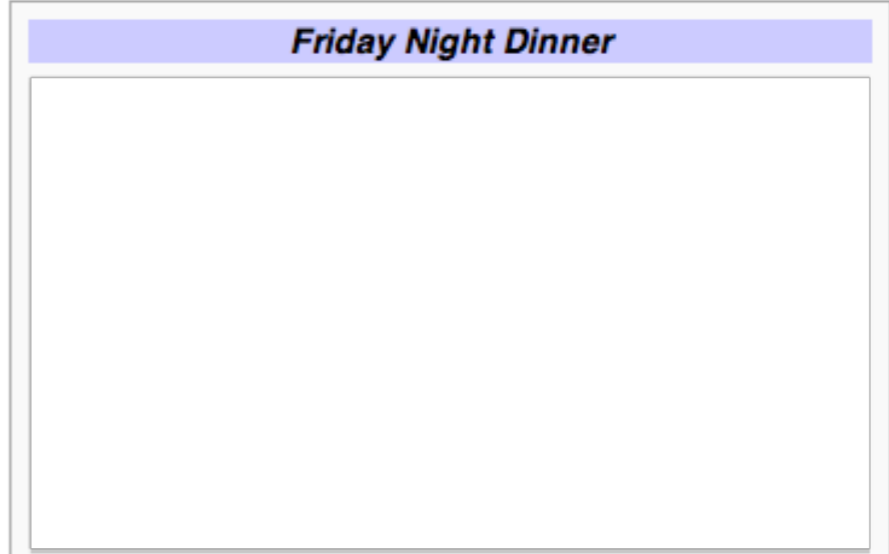
Friday Night Dinner

From Wikipedia, the free encyclopedia

Friday Night Dinner is a British television sitcom written by Robert Popper and starring Tamsin Greig, Paul Ritter, Simon Bird, Tom Rosenthal and Mark Heap.^[1] The comedy is focused around the regular dinner experience of an English Jewish family (the Goodmans) on each Friday night. The first series aired from February 2011 on Channel 4. The series began airing in the U.S. on BBC America as of 30 July 2011.^[2] A second series has been commissioned by Channel 4.^[3] Filming for series 2 began on 12 March 2012, and the series will air autumn 2012.^[4]

Contents [hide]

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 - 2.2 Series 2 (2012)
- 3 American remake
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Genre	Comedy
Format	Sitcom
Created by	Robert Popper
Written by	Robert Popper
Directed by	Steve Bendelack

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The Project



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W Editing Friday Night Dinner - x

en.wikipedia.org/w/index.php?title=Friday_Night_Dinner&action=edit

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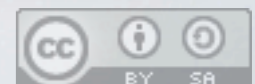
Editing Friday Night Dinner

B *I* [Advanced](#) [Special characters](#) [Help](#) [Cite](#)

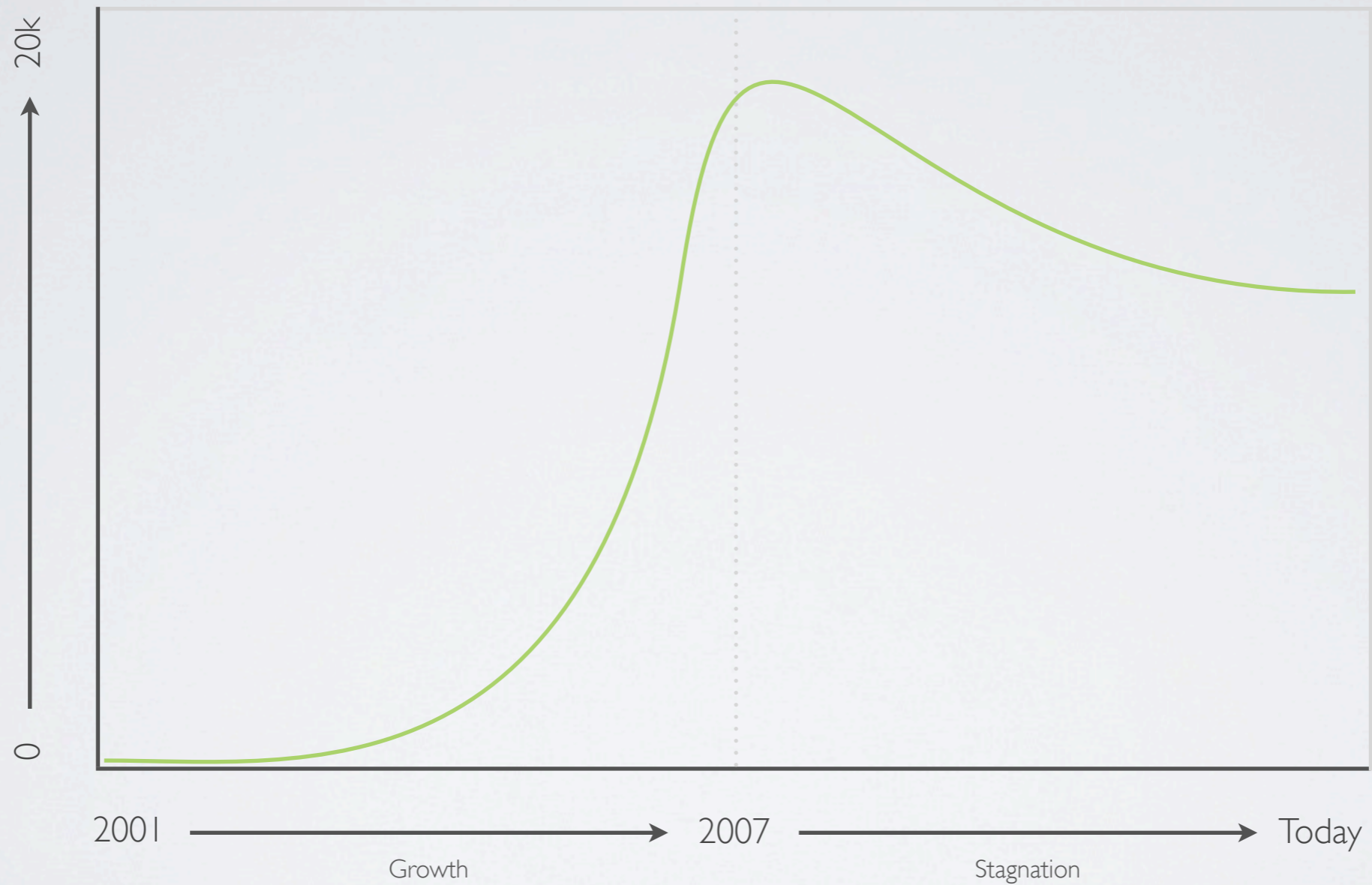
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| caption =
| genre = [[Comedy]]
| format = [[Sitcom]]
| creator = [[Robert Popper]]
| writer = Robert Popper
| director = [[Steve Bendelack]]
| starring = [[Tamsin Greig]]<br />[[Paul Ritter (actor)|Paul Ritter]]<br />[[Simon Bird]]<br />[[Tom Rosenthal]]<br />[[Mark Heap]]
| country = [[United Kingdom]]
| language = [[English language|English]]
| num_series = 1
| num_episodes = 6
| executive_producer = [[Nira Park]]<br />Caroline Leddy<br />[[Kenton Allen]]
| producer = Robert Popper
| location =
| runtime = 25 minutes approx
| company = [[Robert Popper|Popper Pictures]]<br />[[Big Talk Productions]]
| composer = "[[Meddle (song)|Meddle]]" by [[Little Boots]]<br />"Est I Here" by [[Casiotone]]

```



Active Editors



The Complexity Problem



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Infobox television ... y Night Dinner
Genre Comedy
Format Sitcom
Created by Robert Popper
Written by Robert Popper



Friday Night Dinner - Wikipedia

en.wikipedia.org/wiki/Friday_Night_Dinner

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Paragraph Save your changes

Describe what you changed

just messing around

This is a minor edit

Watch this page

Save page ✓

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Friday Night Dinner

From Wikipedia, the free encyclopedia

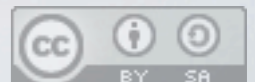
Testing testing 123...

Friday Night Dinner is written by **Robert Popper**, **Paul Ritter**, **Simon Bird**, **Heap**.^[1] The comedy is dinner experience of an (Goodmans) on each Friday aired from February 2011 began airing in the U.S. July 2011.^[2] A second series by Channel 4.^[3] Filming March 2012, and the series

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Testing testing 123...

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W Friday Night Dinner: Revision x

en.wikipedia.org/w/index.php?title=Friday_Night_Dinner&action=history

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Friday Night Dinner: Revision history

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(cur) = difference from current version, (prev) = difference from preceding version,
m = minor edit, → = section edit, ← = automatic edit summary
 (latest | earliest) View (newer 50 | older 50) (20 | 50 | 100 | 250 | 500)

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Balancing the ecosystem



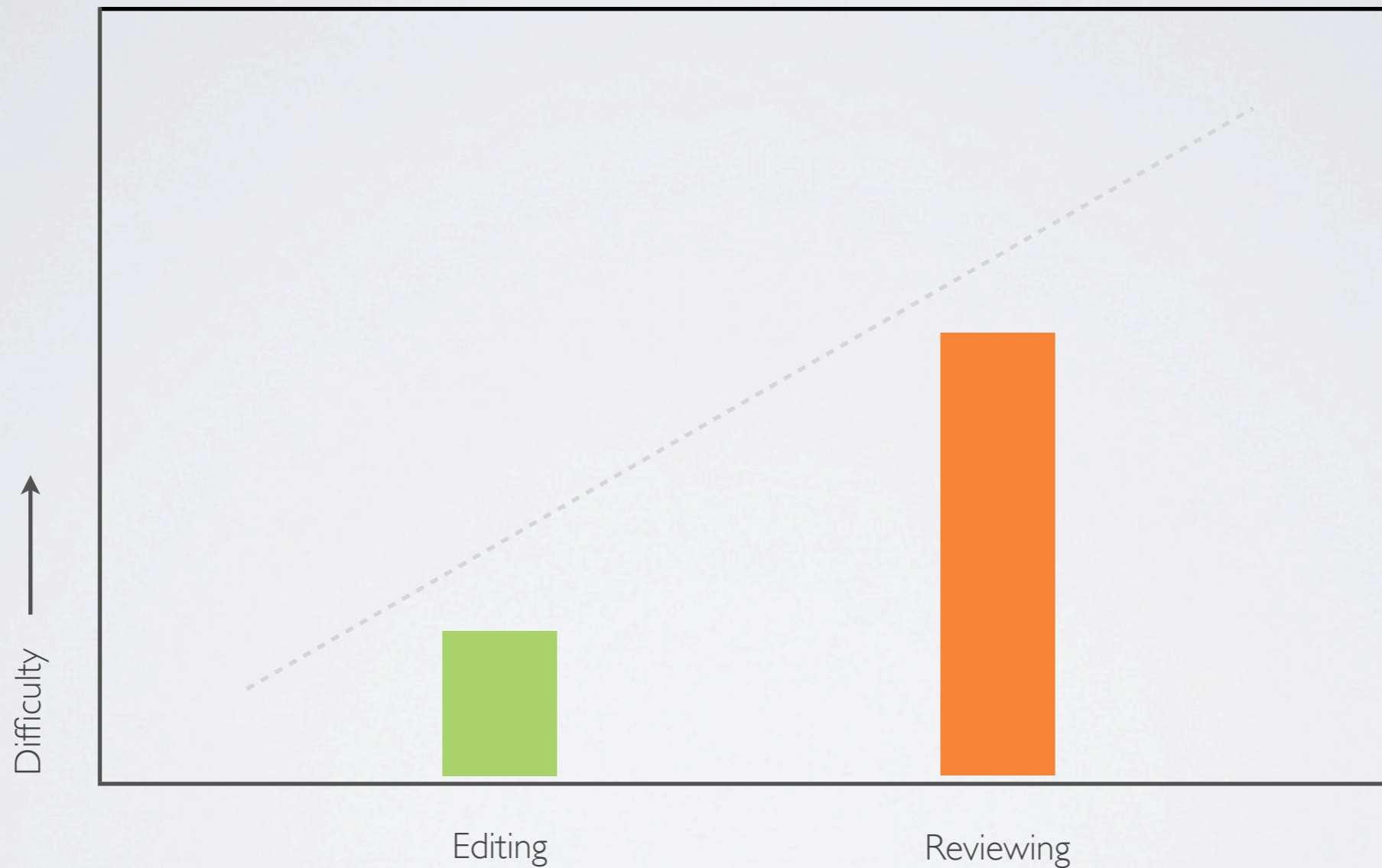
The Review Problem



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Balancing the ecosystem



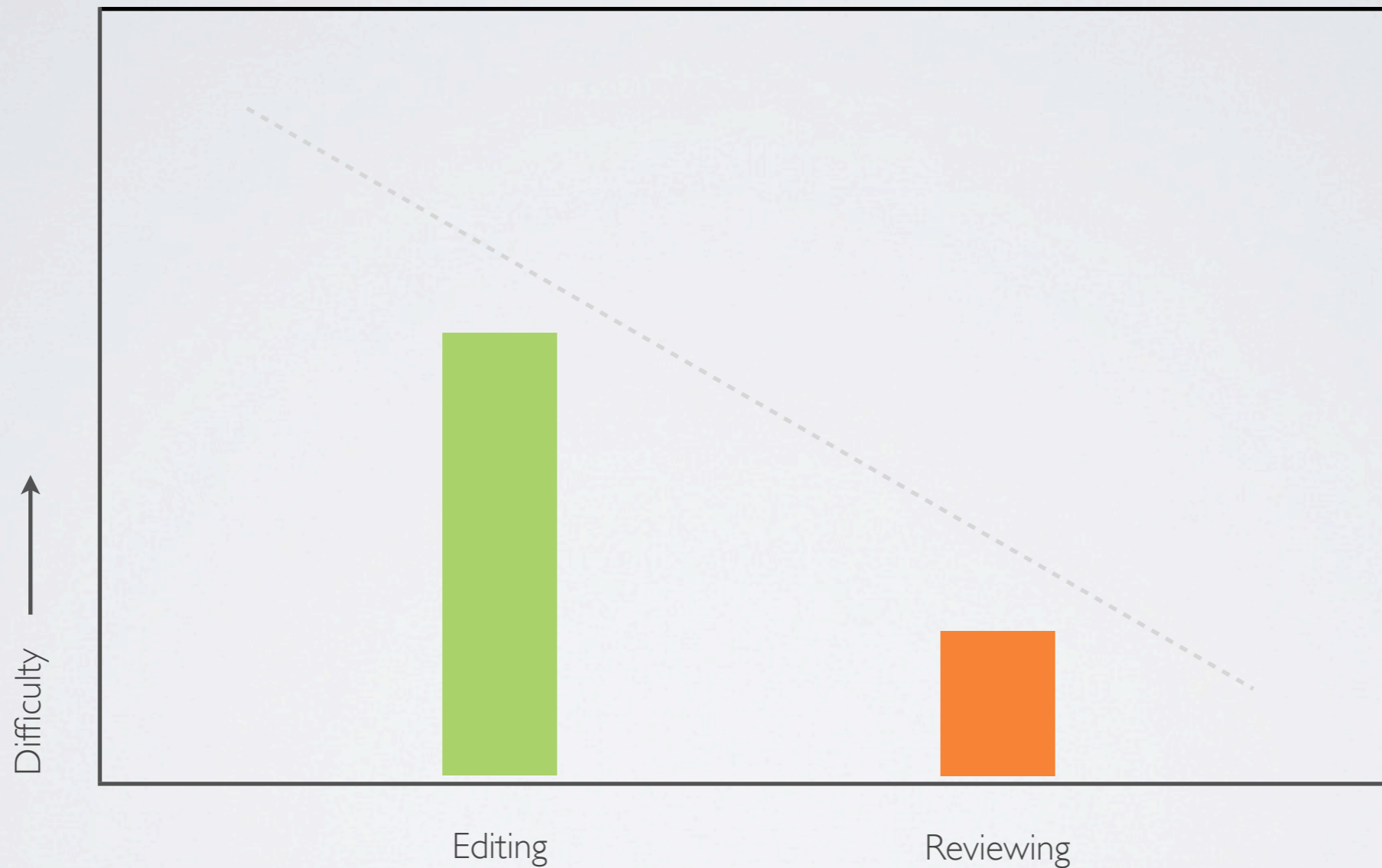
The Review Problem



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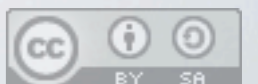
Balancing the ecosystem



The Review Problem



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Balancing the ecosystem



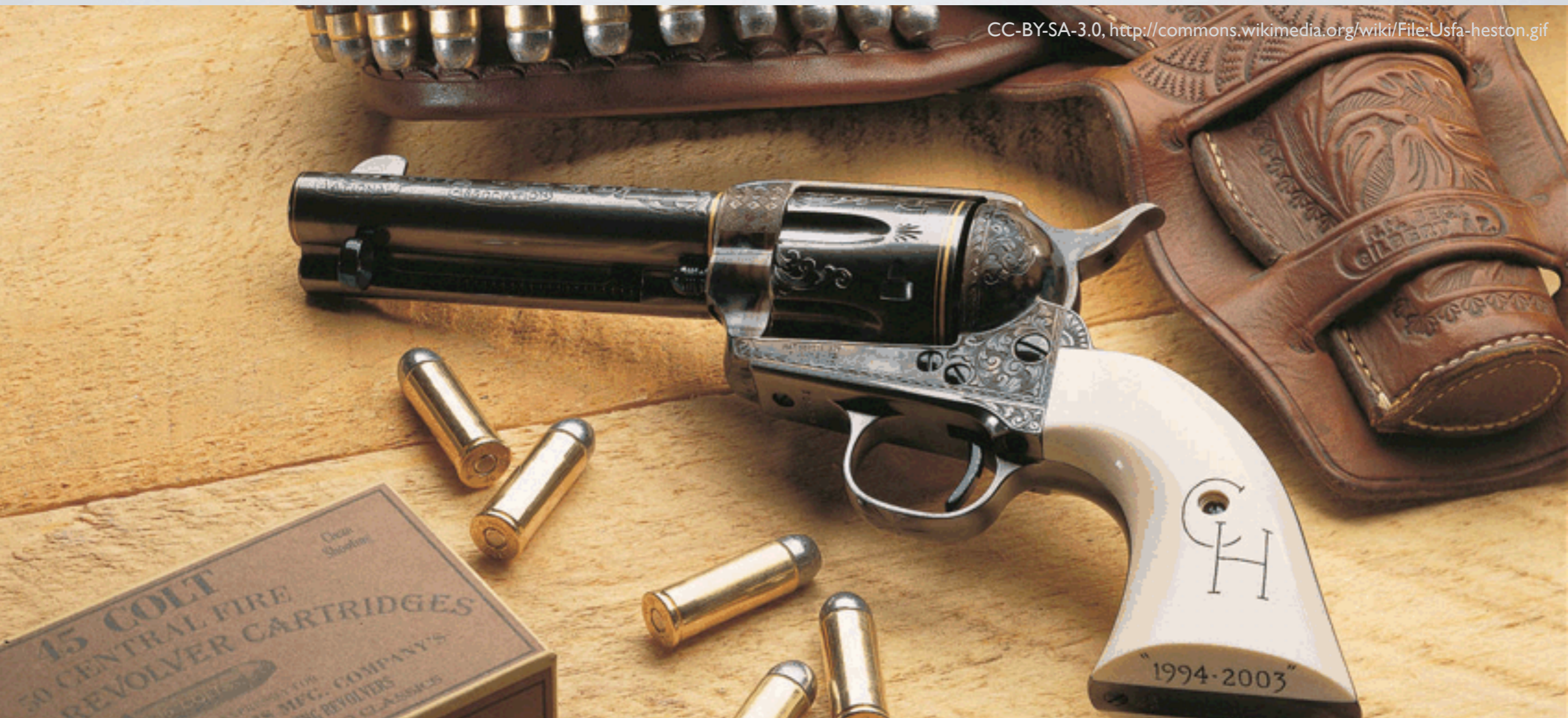
The Review Problem



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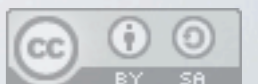
Wikitext enthusiasts



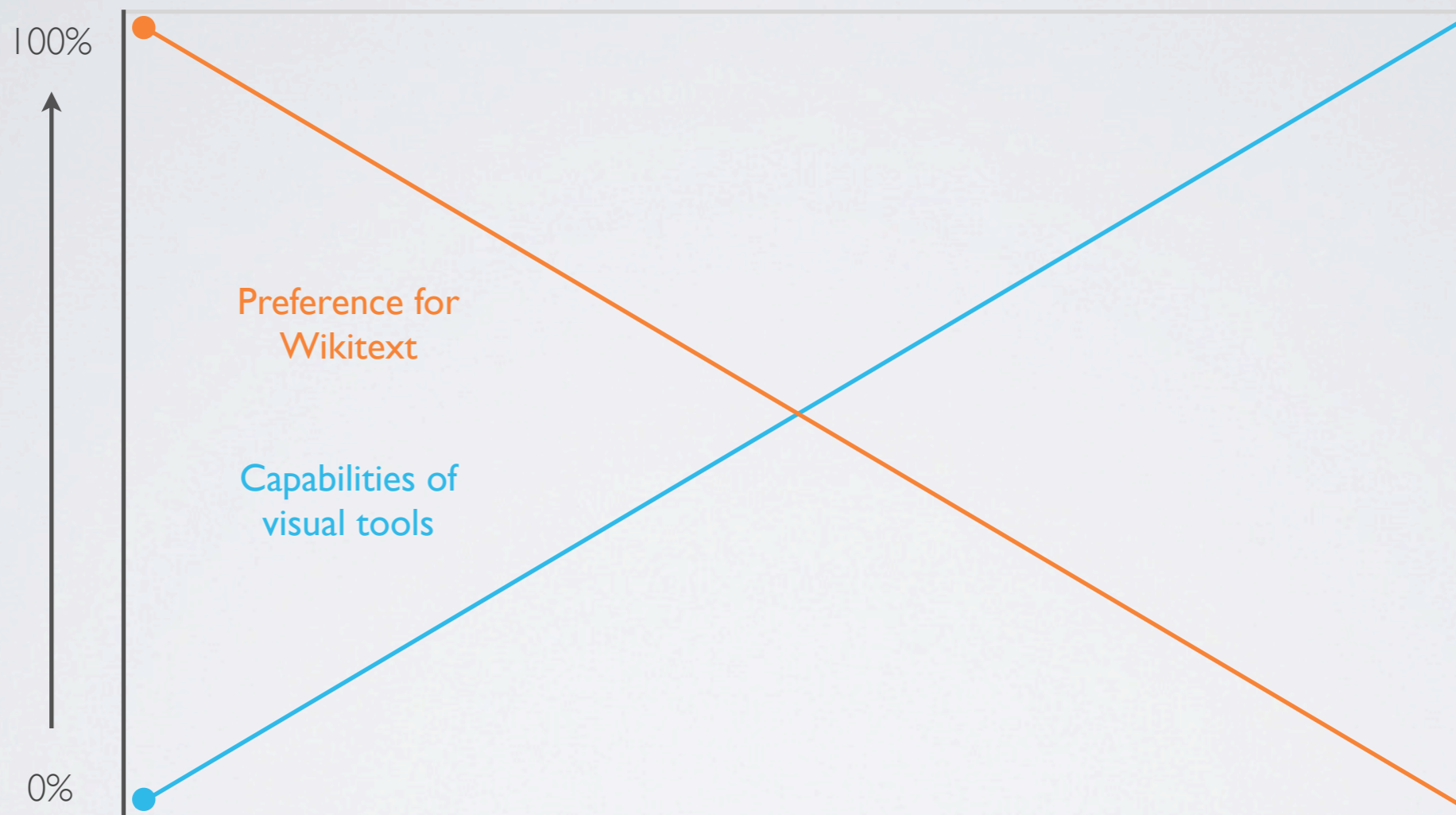
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Exit strategy



The Expert Problem



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To what extent?



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The Expert Problem



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To what extent?

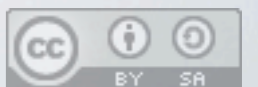


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The Expert Problem



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Here to stay

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2001 -

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The Expert Problem



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Scale and speed

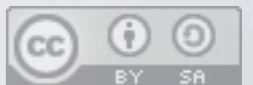


GFDL, http://commons.wikimedia.org/wiki/File:I-80_Eastshore_Fwy.jpg

The Collision Problem



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Scale and speed



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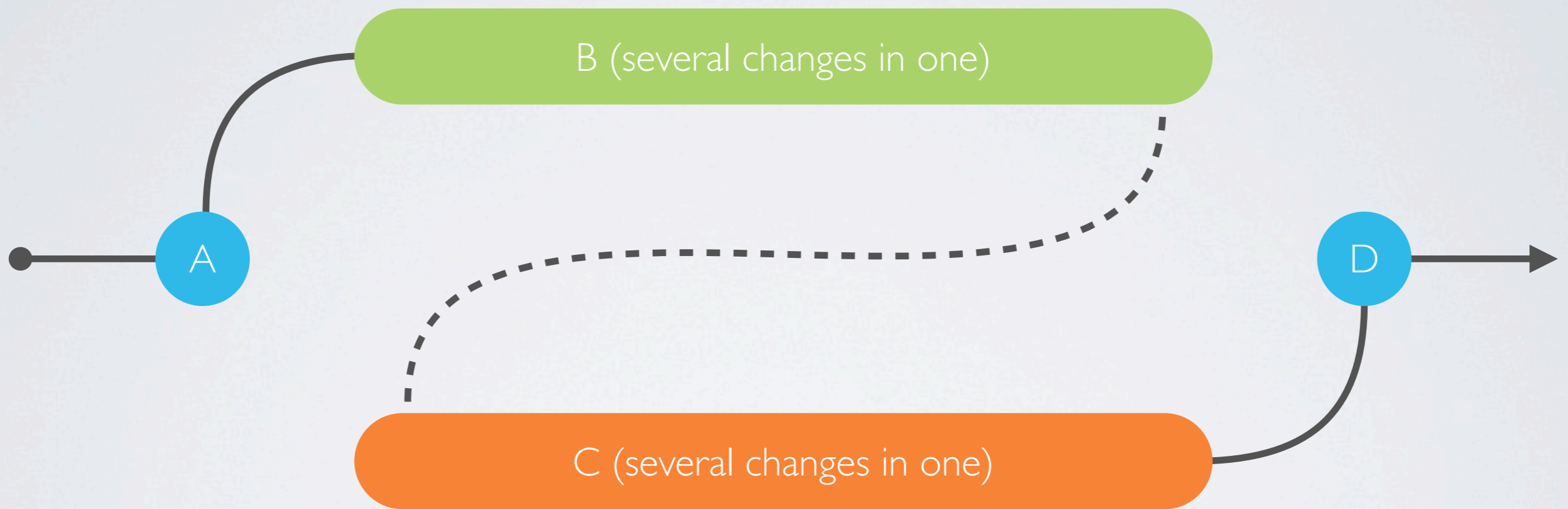
The Collision Problem



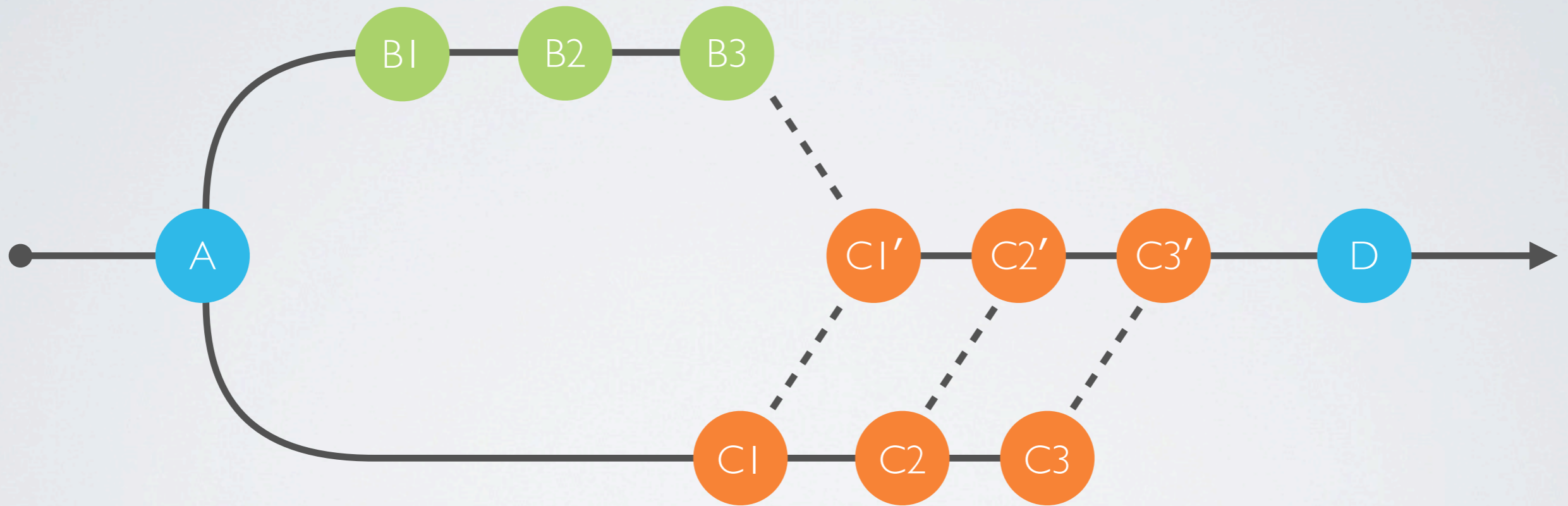
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Merge often fails



Rebase often works



The Collision Problem



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Missing Pieces



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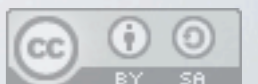


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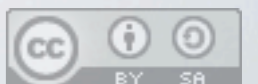
ve.dm

===A''''b''''c===



ve.dm

<h1>Abc</h1>



ve.dm

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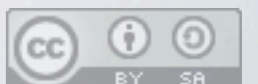


ve.dm



The Data Model

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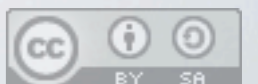
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The Data Model



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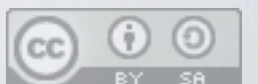


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The Data Model

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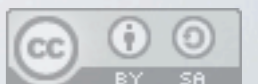


ve.dm



The Data Model

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ve.dm

H D H P H e l l o , w o r l d ! P P B o l d , l t a l i c P



The Data Model



Wikimania D.C. 2012



ve.dm

H D H P H e l l o w o r l d ! P P B o l d , l t a l i c P



The Data Model



Wikimania D.C. 2012



ve.dm

H D H P H e l l o w o r t a l i c P

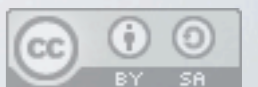


The Data Model

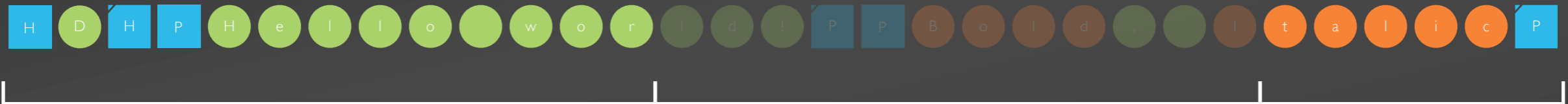
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ve.dm



ve.dm



retain 13

replace [selection] with []

retain 6



ve.dm

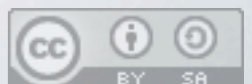


retain 13

replace [selection] with []

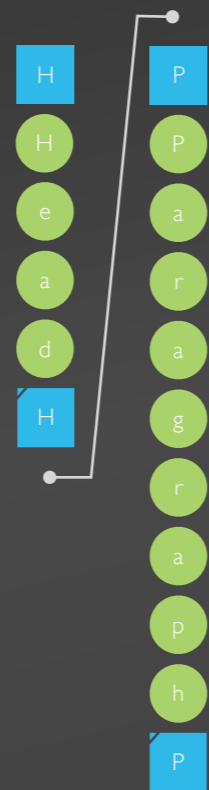
retain 6

replace [] with [selection]



ve.dm

Linear Model



User Interface

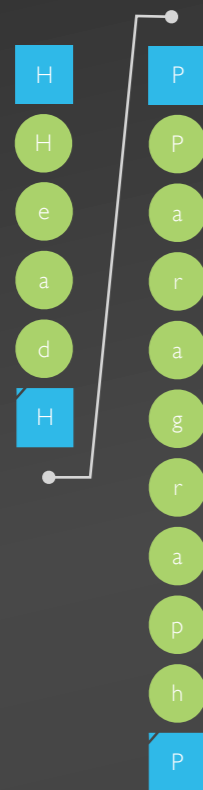


The Node Tree

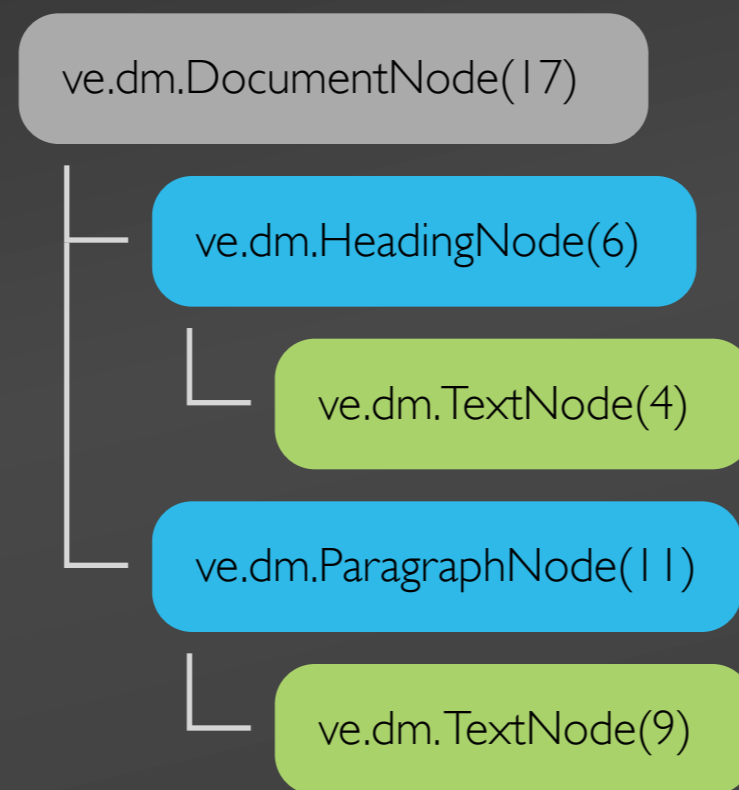


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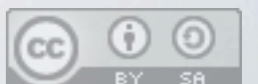
Linear Model



Node Tree

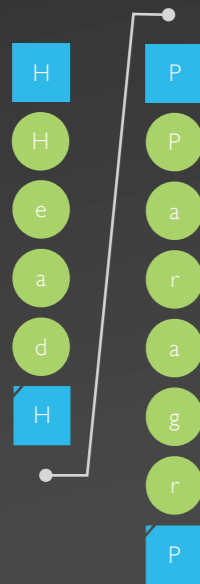


User Interface

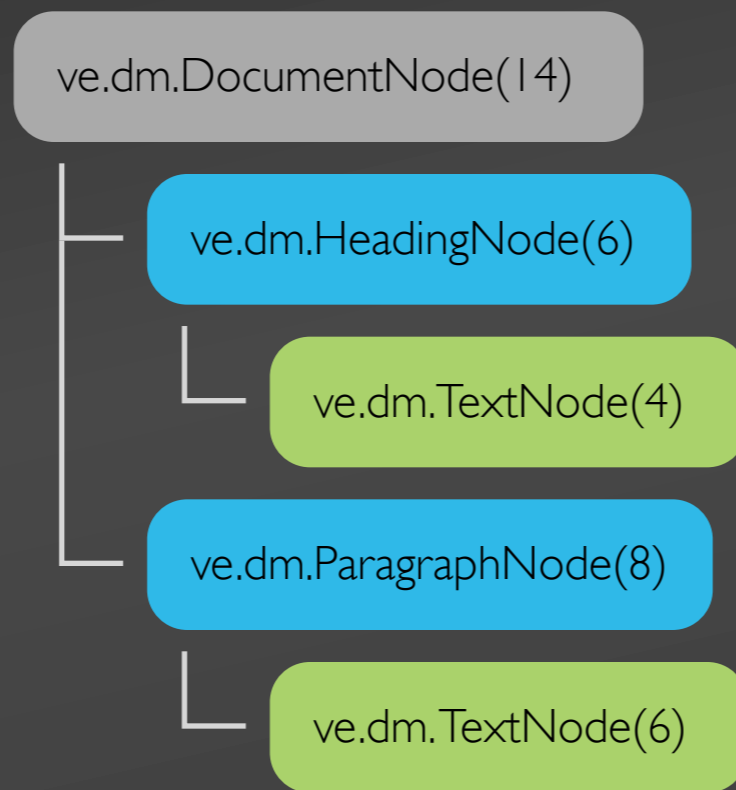


ve.dm

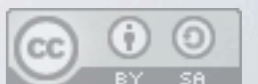
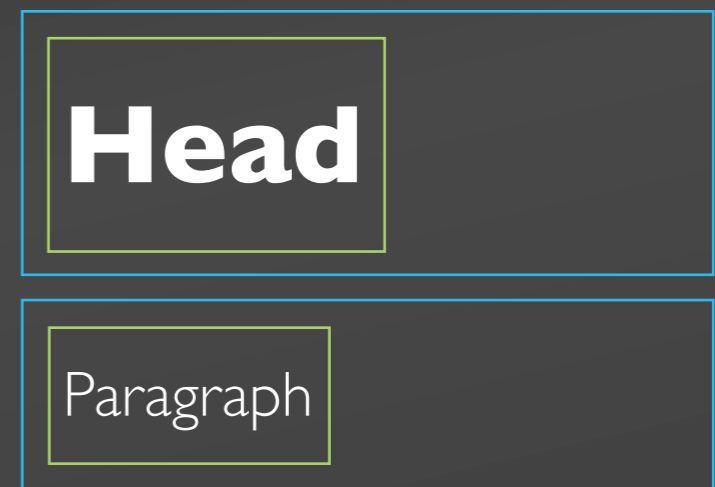
Linear Model



Node Tree

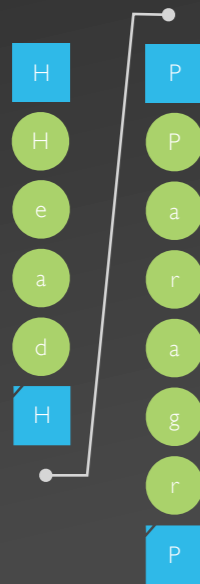


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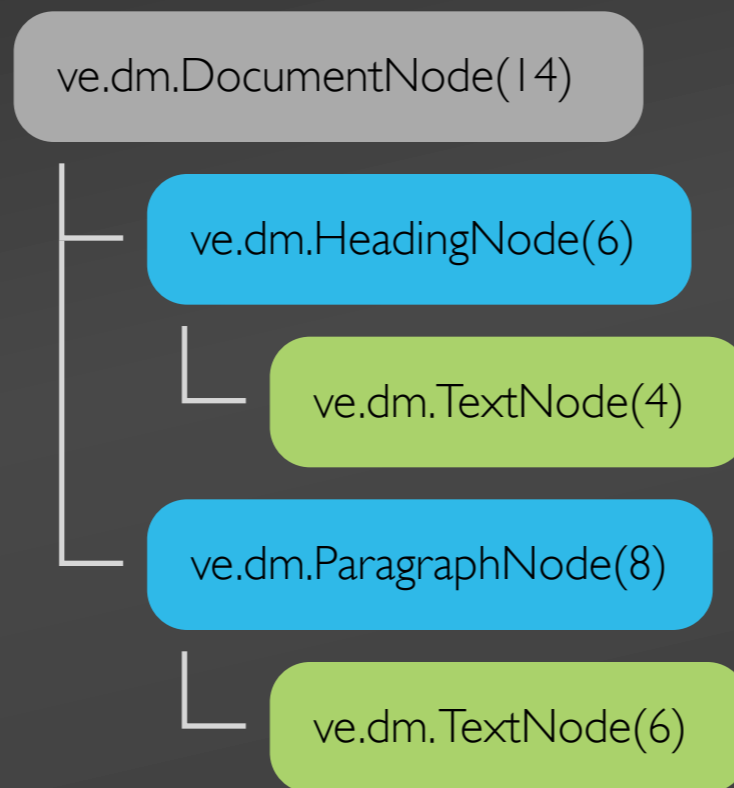


ve.dm

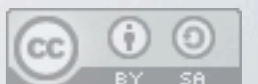
Linear Model



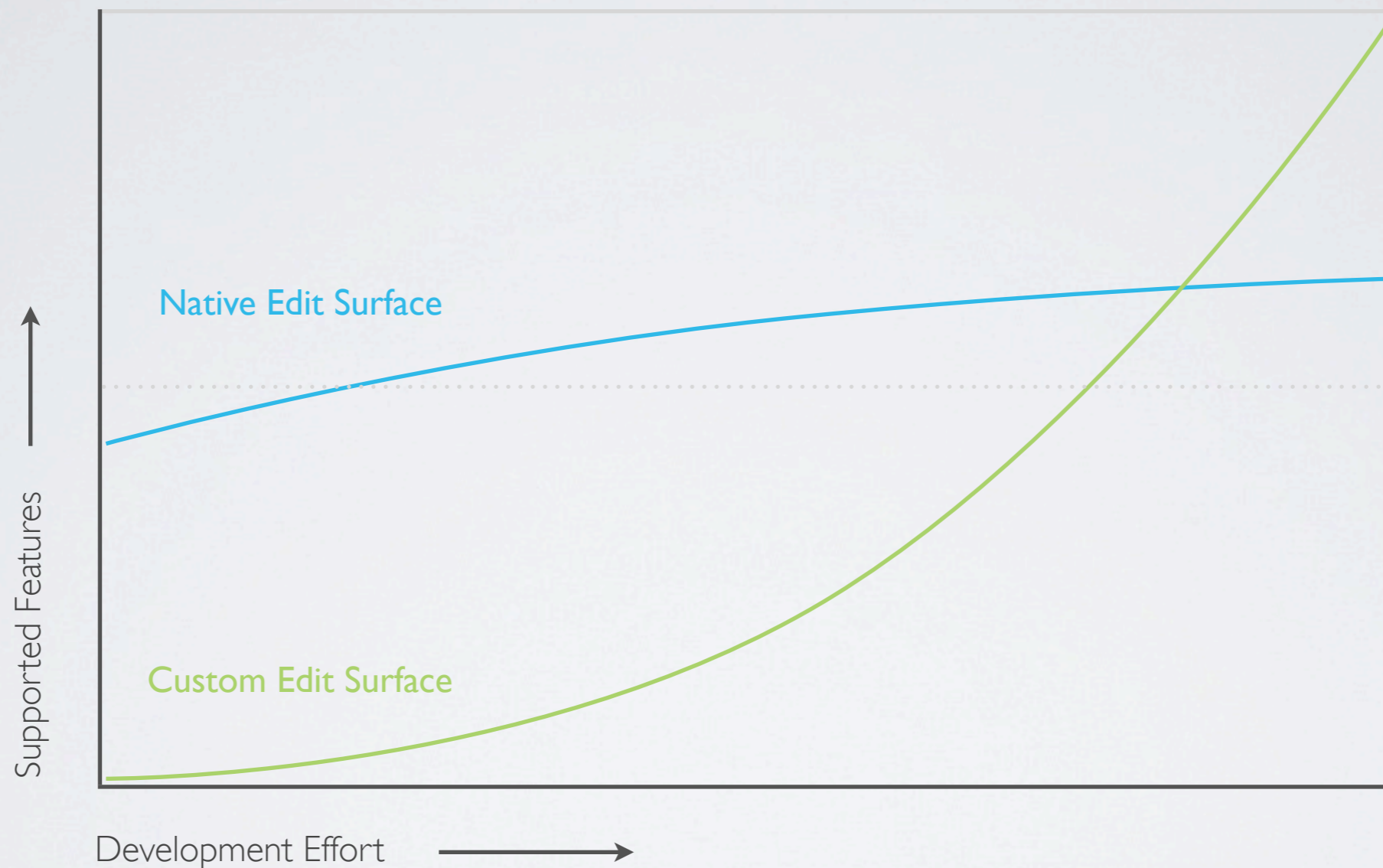
Node Tree



User Interface



Content editable is poison



ve.es

Browsers don't provide a way to get the graphical coordinates of a character in rendered text. This sucks, because if we want to make sure a cursor is in the right place we need to know exactly where everything is.



Some Progress



ve.es

```
A text-flow algorithm can be a tricky thing to write.  
Using a div for each line requires measuring the line  
each time a word is added and breaking the line when it  
no longer fits. It's also gotta be pretty darn fast.
```



Some Progress

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ve.es

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ve.es

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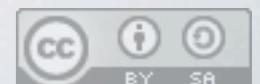


Hi. |

Some Progress




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ve.es

A text-flow algorithm can be a tricky thing to write. Hi. It's also gotta be pretty darn fast.



|

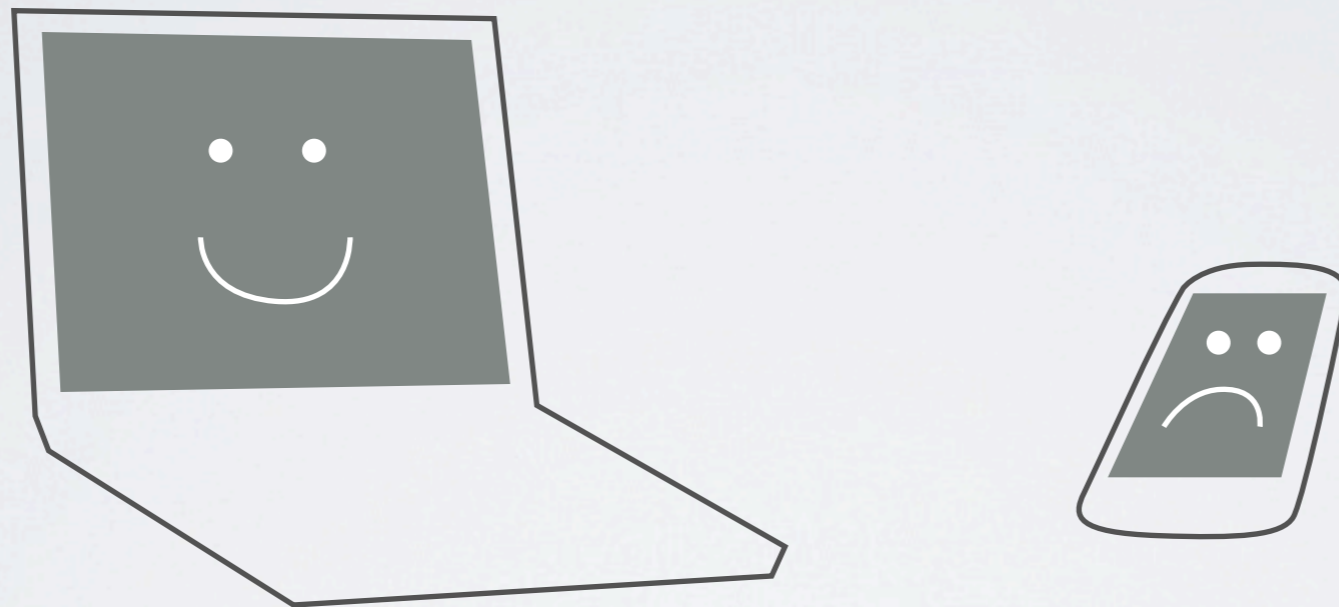


Some Progress

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ve.es



Some Progress

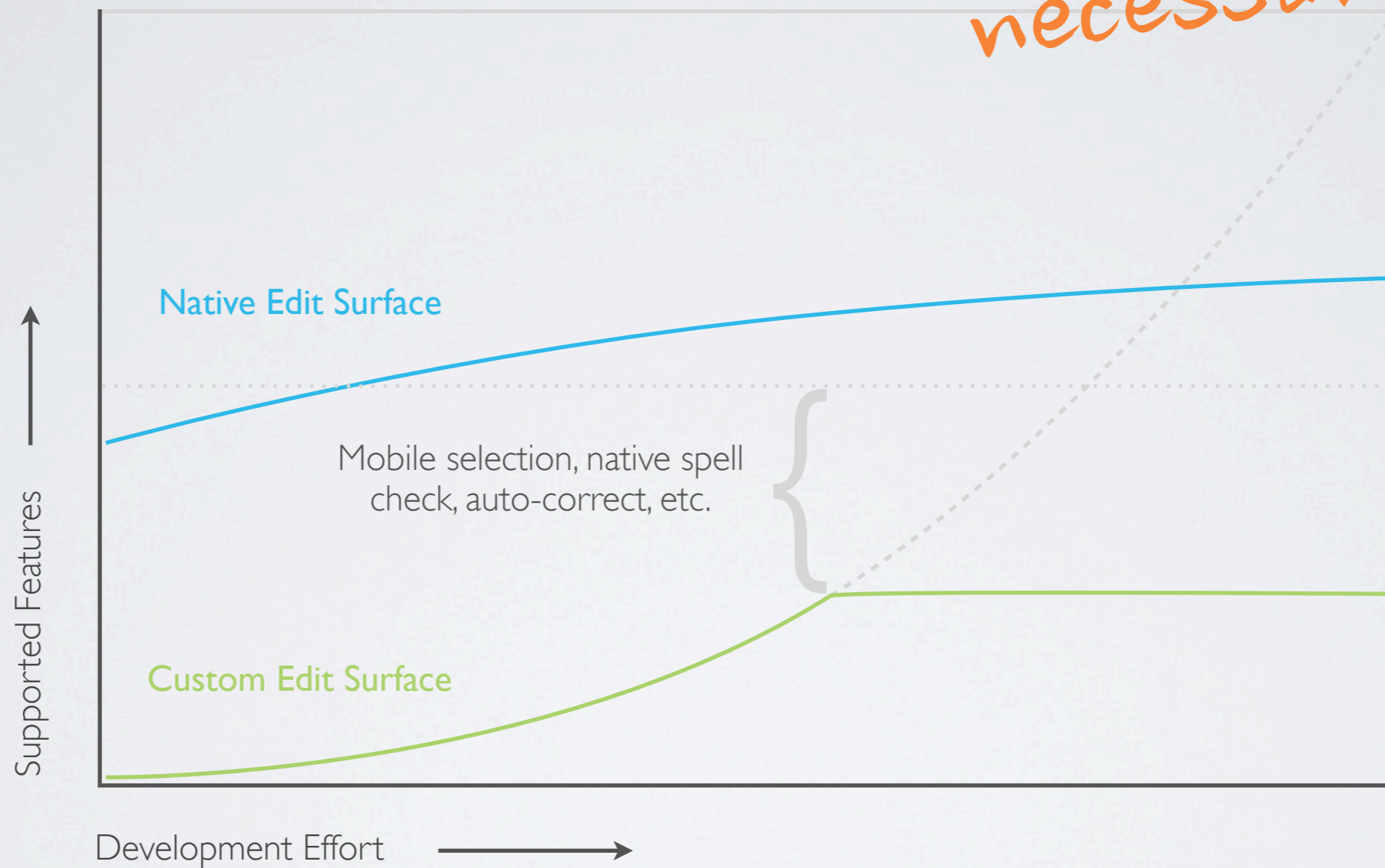


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Content editable is ~~poison~~

necessary



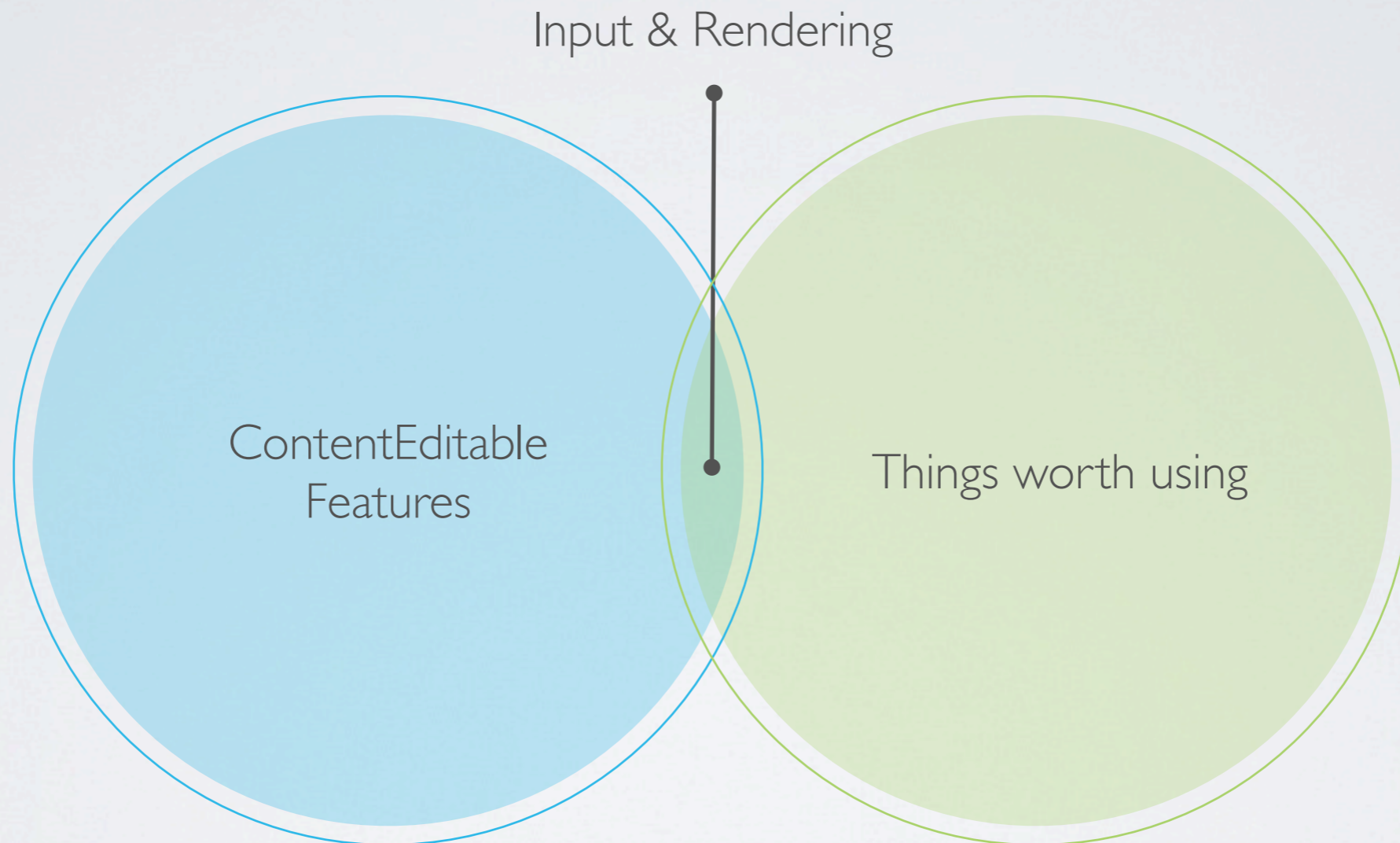
A New Theory



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ve.ce



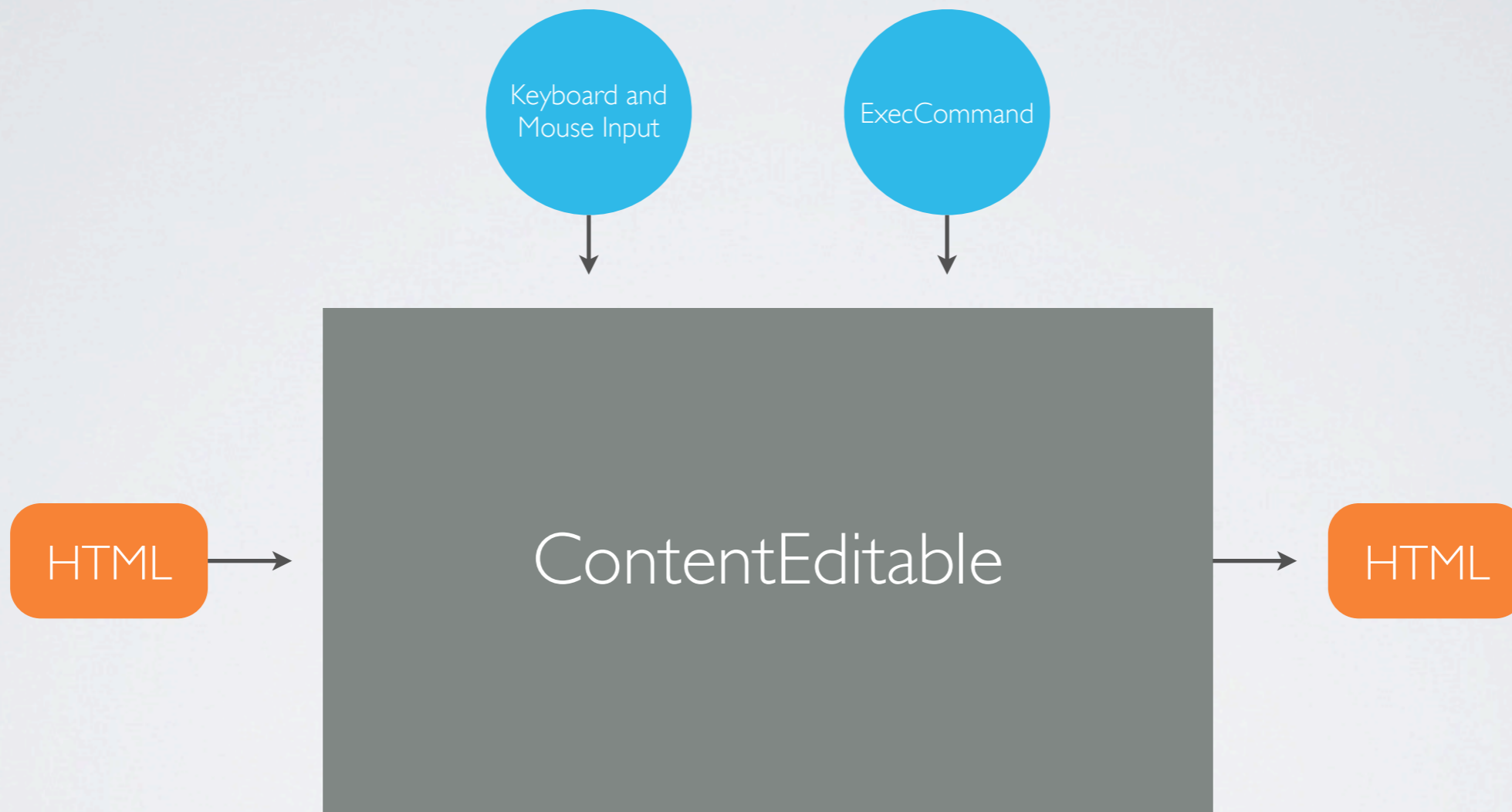
More Progress



Wikimania D.C. 2012



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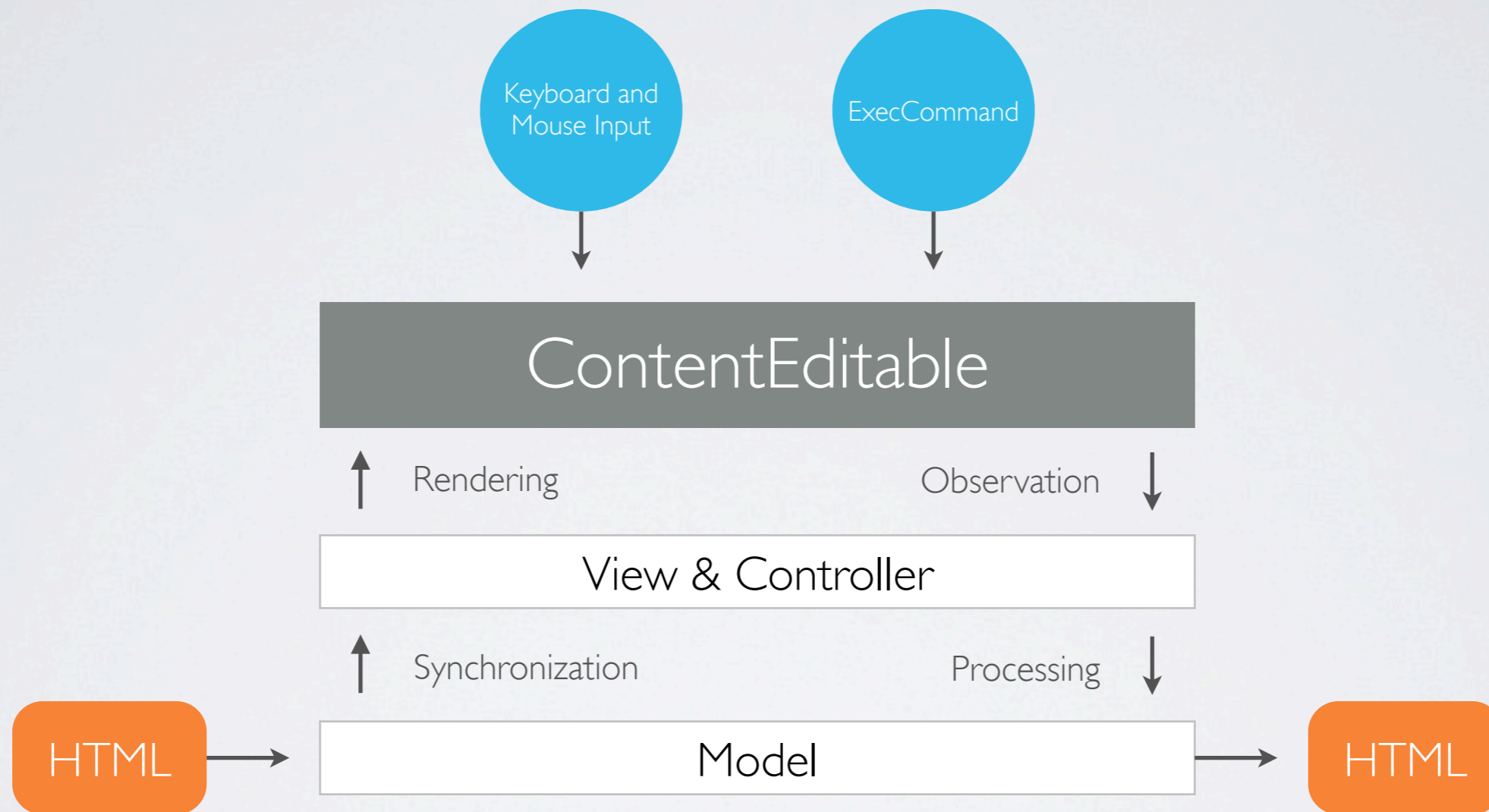


More Progress

Wikimania D.C. 2012



ve.ce



More Progress

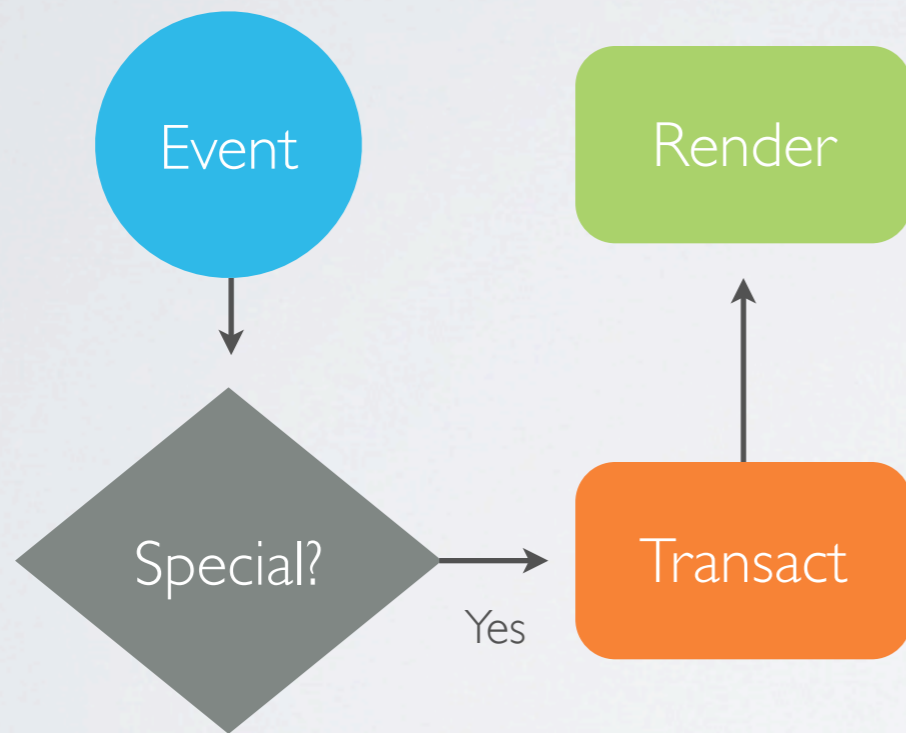


Wikimania D.C. 2012

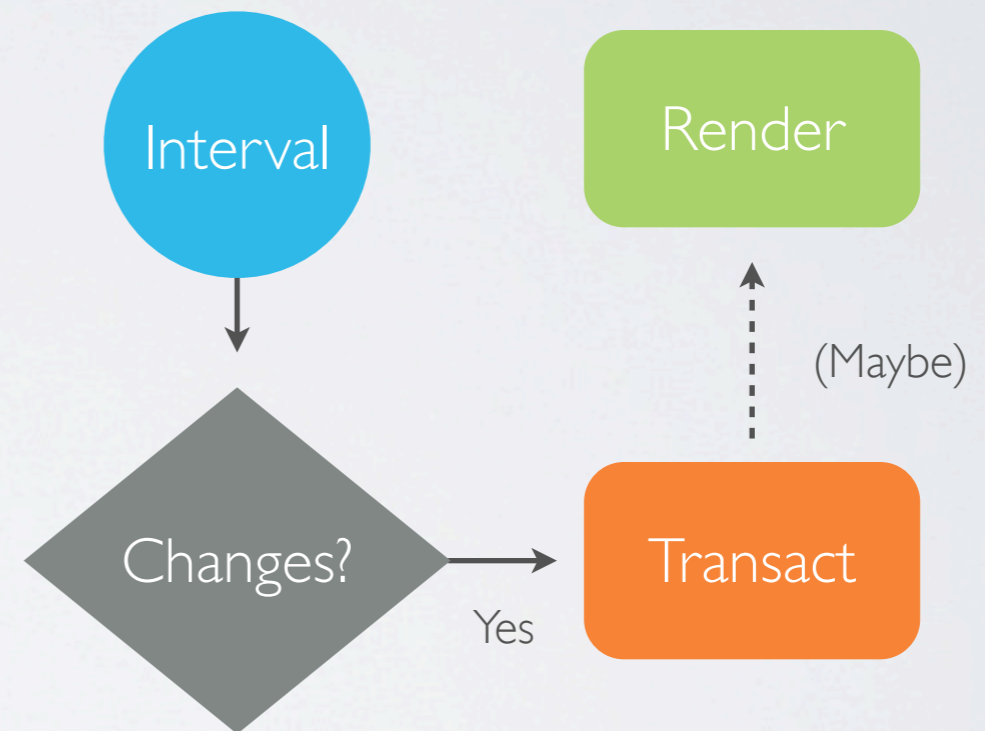


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Events



Polling



More Progress

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Demo

A Demo



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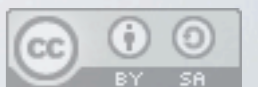
What's next?

CC-BY-SA-3.0, http://commons.wikimedia.org/wiki/File:Hover_board.jpg



The Future

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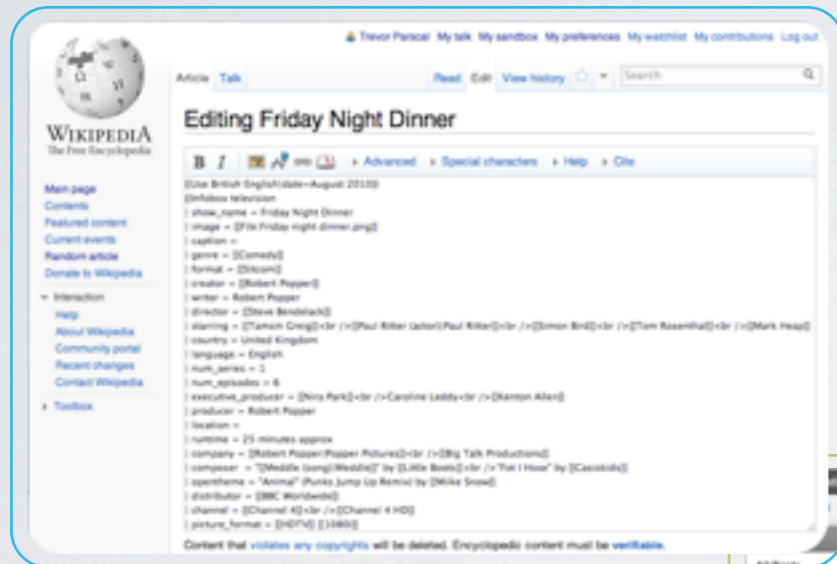


More Features

- Nested lists
- Definition lists
- Tables
- Images
- Videos
- Infoboxes
- References
- Image galleries
- Real-time collaboration
- Conflict resolution
- Edit playback
- Integration with discussion system

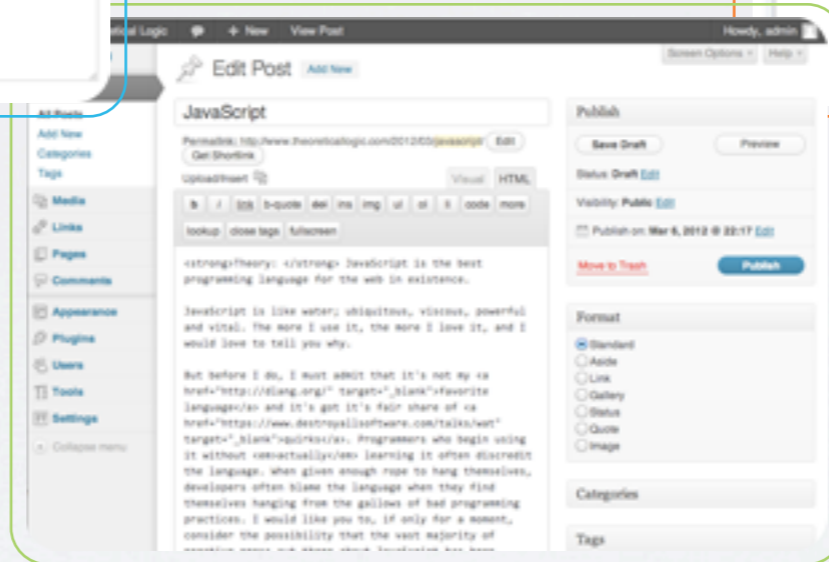


More Platforms

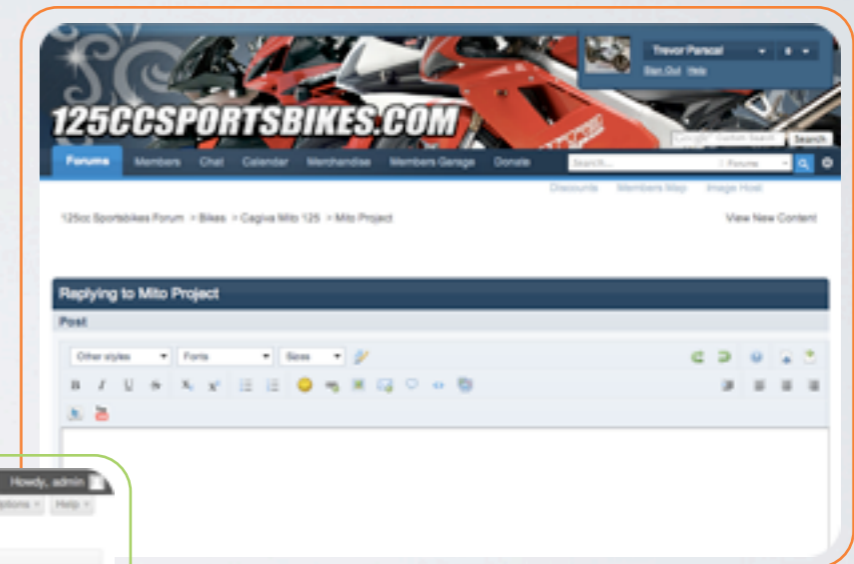


Wikis

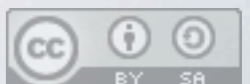
Blogs



The Future



Forums



Get Involved

Learn more about VisualEditor

<http://www.mediawiki.org/wiki/VisualEditor>

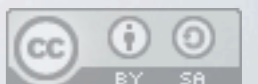
Clone our repository

```
git clone https://gerrit.wikimedia.org/r/p/mediawiki/extensions/VisualEditor.git
```



Community Development

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Work @ Wikimedia

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<http://jobs.wikimedia.org>



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Learn more about VisualEditor

<http://www.mediawiki.org/wiki/VisualEditor>

Download these slides

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