Peter Heslin

1998/9

2000

2001/

2002

200

2006

2007

Present

Future

Diogenes at 10 years: milestones and morals

Peter Heslin

Digital Classicist Seminar, London

22 August 2008



Peter Heslin

1998/9

2000

2001/2

2002

200

2006

2007

Present

Future

1998/9 – Pandora

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• Pandora – I have never tried anything else.

Peter Heslin

1998/9

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1998/9 – Pandora

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1998/9 – Pandora

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- Pandora is not foolproof misses some words! do people double-check?

Peter Heslin

1998/9

- 2000
- 2001/2
- 2002
- 2009
- 2006
- 2007
- Present
- Future

1998/9 – Pandora

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1998/9 – Pandora

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- Idea: Everyone will flock to a better tool!
- Moral: Classicists are conservative!

Peter Heslin

1998/9

- 2000
- 2001/2
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- 2.005
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- 2007
- Present
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1998/9 – Pandora

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- Moral: Visual markup is evil!

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morals Peter Heslin

Diogenes at 10 years: milestones and

1998/9

2000

- 2001/2
- 2002
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• A script: grep and a bit of scripting: a few lines of context and author.

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Diogenes at 10 years: milestones and

1998/9

2000

2001/2

2002

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- A script: grep and a bit of scripting: a few lines of context and author.
- Perl for poetry: crude work-title and book and line numbers.
- Rudimentary browser.

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- Rudimentary browser.
- Added beginnings Greek output: Ibycus encoding for Latex.

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- A script: grep and a bit of scripting: a few lines of context and author.
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- Rudimentary browser.
- Added beginnings Greek output: Ibycus encoding for Latex.
- Started to get curious about the citation info embedded in the text.

Reverse engineering

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1998/9

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• Citation info is a state machine and encoded in binary to reduce size.

Reverse engineering

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- 2000
- 2001/2
- 2002
- 2.004
- 2006
- 2007
- Present
- Future

- Citation info is a state machine and encoded in binary to reduce size.
- Originally was decoded in hardware!

Reverse engineering

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- Originally was decoded in hardware!
- Eureka every 8KB chunk resets the state.

Reverse engineering

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- Citation info is a state machine and encoded in binary to reduce size.
- Originally was decoded in hardware!
- Eureka every 8KB chunk resets the state.
- Much richer information and suggested the possibility of robust decoding.

Peter Heslin

1998/9

2000

2001/2

2.002

2003

2006

2007

Present

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Reverse engineering

Sep 21, 00 0:27				lat0474.txt						Page 1/1
0000000:	ef80	b0b4	b7b4	ffef	81b0	b0b1	ffef	82d1		
0000010:	f5e9	eee3	f4ff	ef83	c3e9	e3ff	9ff4	ff40	0	
0000020:	4040	407b	3150	524f	2050	2e20	5156	494e	000 (1PRO P. OVIN	
0000030:	4354	494£	204f	5241	5449	4f7d	3120	9140	CTIO ORATIO 1 .0	
0000040:	4051	7561	6520	7265	7320	696e	2063	6976	Quae res in civ	
0000050:	6974	6174	6520	6475	6165	2070	6c75	7269	itate duae pluri	
0000060:	6d75	6d20	706f	7373	756e	742c	2065	6165	mum possunt, eae	
0000070:	2063	6f6e	7472	6120	806e	6£73	2061	6d62	contra .nos amb	
0000080:	6165	2066	6163	6975	6e74	2069	6e20	686f	ae faciunt in ho	
0000090:	6320	7465	6d70	6f72	652c	2073	756d	6d61	c tempore, summa	
00000a0:	2067	7261	7469	6120	6574	2065	6c6f	2d80	gratia et elo	
00000b0:	7175	656e	7469	613b	2071	7561	7275	6d20	quentia; quarum	
00000c0:	616c	7465	7261	6d2c	2043	2e20	4171	7569	alteram, C. Agui	
00000d0:	6c69	2c20	7665	7265	6£72	2c20	616c	7465	li, vereor, alte	
00000e0:	7261	6d20	6d65	7475	6f2e	2080	456c	6£71	ram metroElog	
00000£0:	7565	6e74	6961	2051	2e20	486f	7274	656e	centia Q. Horten	
0000100:	7369	206e	6520	6d65	2069	6e20	6469	6365	si ne me in dice	
0000110:	6e64	6f20	696d	7065	6469	6174	2c20	6e6f	ndo impediat, no	
0000120:	6e20	806e	6968	696c	2063	6f6d	6d6f	7665	n .nihil commove	
0000130:	6£72	2c20	6772	6174	6961	2053	6578	2e20	or, gratia Sex.	
0000140:	4e61	6576	6920	6e65	2050	2e20	5175	696e	Naevi ne P. Quin	
0000150:	6374	696f	206e	6£63	6561	742c	2090	6964	ctio noceat, .id	
0000160:	2076	6572	6£20	6e6f	6e20	6d65	6469	6£63	vero non medioc	
0000170:	7269	7465	7220	7065	7274	696d	6573	636f	riter pertimesco	

Peter Heslin

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Diogenes at 10 years: milestones and morals

Peter Heslin

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• Citation decoding was bolted on top of the existing search functionality.

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"Read in all bytes with the sign bit set. This is the ID for the first record. Call a subroutine to decode the ID data. Now read in all bytes with the sign bit unset. This is the text of the first record. Call a subroutine to process the text. Repeat this process for all records in the block, that is, until the ID data contains the end of block marker."

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• This code was slow

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- It may work when you are I/O bound, but not when you are CPU bound.
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• I think other software may still do it the wrong way.

• Moral: when the corpus is closed, you do better to ignore the spec.

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Diogenes at 10 years: milestones and morals

Peter Heslin

1998/9

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Present

Future

• I found some orphan code (C for MSDOS) on the Internet. I was able to figure out odd TLG features from it (which I probably wouldn't have bothered about myself).

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Diogenes at 10

milestones and morals Peter Heslin

1998/9

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- Time, genre, etc. info. Probably worth doing, but some more useful than others.
- Moral: don't assume that you need to support all features in the spec – some are obsolete (or nearly so) and speed-up hacks.

Peter Heslin

1998/9

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Present

Future

The Web! (Sort-of)

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Peter Heslin

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- Proabably not going to fly as a command-line tool.
- First refactoring: module and command-line script separated.

Peter Heslin

1998/9

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Present

Future

The Web! (Sort-of)

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- Moral: Most CLassics dept. do not have good tech. support.
- Moral: Do not assume people will install other software.
- Moral: Web was a good choice of interface.

Peter Heslin

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The Web! (Sort-of)

Sample output

	Scholia In Homerum, Scholia in Iliadem (scholia vetera) "Scholia Graeca in Homeri Iliadem (scholia vetera), vols. 1-5, 7", Ed. Erbse, H. Berlin: De Gruyter, 1:1909; 2:1971; 3:1974; 4:1975; 5:1977; 7:1988. Book of Iliad 1, verse 1g, *line of scholion 1
	$\label{eq:starting} \begin{split} < &\Pi\eta\lambda\eta_i \dot{\alpha} \delta\epsilon \omega :> \pi ap \dot{\alpha}\gamma \omega_y v v. & T^{ij} \\ &\Pi\eta\lambda\eta_i \dot{\alpha} \delta\epsilon \omega \lambda_j i \lambda\eta_j o; o \ddot{\upsilon} \tau \omega_i \dot{\alpha} v v v a \tau for v k v \dot{\nu} \dot{\alpha} \bar{\lambda} \\ \dot{\delta} \dot{\alpha} \tau \dot{\alpha} j \dot{\mu} \dot{\tau} \dot{\sigma} \rho v x a \dot{i} \dot{\omega} \tau \dot{\alpha} \dot{\delta} \rho c; o \ddot{\upsilon} \tau \omega_i \dot{\sigma} \dot{\nu} \dot{\sigma} \dot{\sigma} \dot{\omega} \gamma \dot{\tau} \dot{\sigma} \dot{\sigma} \dot{\sigma} \gamma \dot{\tau} \dot{\sigma} \dot{\omega} \gamma \dot{\tau} \dot{\sigma} \dot{\sigma} \dot{\sigma} \gamma \dot{\tau} \dot{\sigma} \dot{\omega} \gamma \dot{\tau} \dot{\sigma} \dot{\sigma} \dot{\sigma} \dot{\tau} \dot{\sigma} \dot{\sigma} \dot{\tau} \dot{\tau} \dot{\sigma} \dot{\tau} \dot{\sigma} \dot{\tau} \dot{\tau} \dot{\sigma} \dot{\tau} \dot{\tau} \dot{\tau} \dot{\sigma} \dot{\tau} \dot{\tau} \dot{\tau} \dot{\sigma} \dot{\tau} \dot{\tau} \dot{\tau} \dot{\tau} \dot{\tau} \dot{\tau} \dot{\tau} \tau$
(?)	b (BE ⁴) T ποσόν, πολλάς: ποιόν, ιέφθιμους ⁴⁴ , οὐσίαν, ιψυ- χάς ⁴⁴ , τόπον, "Άίδι". χρόνον, προΐαψεν" (A 3). b (BE ⁴) TT ⁴ η μυρία: ἡρτοριαή ἡ μετάληψις: παρόν γὰρ ἡν φάναι: "ὅς μυρί" Άχασιζ ἄλιγε' ἕθηκεν": ἀλλ' ὡς φιλέλλην οὐ τῷ ῆρωί ἐπάγει τἡ βλασημίαν, ἀλλά τῷ πάθει. τὸ δὲ ῆ κατὰ δοτικήν τινες ῆρου- σαν, οὐχ ὀρθῶς. b (BCE ⁴) T

Peter Heslin

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2000 – The Web! (Really)

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• Added other encodings, including Unicode - why not?

Peter Heslin

1998/9

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Present

Future

2000 – The Web! (Really)

- Added other encodings, including Unicode why not?
- Actually a bad idea. Should have gone with Unicode and binned everything else. An all-purpose Greek encoding converter should have been a separate application.

Peter Heslin

1998/9

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• Moral: embrace emerging standards even if they are unsupported.

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- Moral: embrace emerging standards even if they are unsupported.
- Moral: an application should do one thing well.

New functionality

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Peter Heslin

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Present

Future

• Multiple patterns and subsets of texts for searching.

New functionality

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Peter Heslin

- 2000
- 2001/2
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- 2007
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- Future

- Multiple patterns and subsets of texts for searching.
- Support for DDP disk popular demand! Still buggy?

New functionality

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morals Peter Heslin

Diogenes at 10 years:

milestones and

- 2000
- 2001/2
- 2002
- 2005
- 2000
- 2007
- Present
- Future

- Multiple patterns and subsets of texts for searching.
- Support for DDP disk popular demand! Still buggy?
- Second refactoring: object-oriented module, documentation.

New functionality

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morals Peter Heslin

Diogenes at 10

milestones and

- 2000
- 2001/2
- 2002
- 2005
- 2006
- 2007
- Present
- Future

- Multiple patterns and subsets of texts for searching.
- Support for DDP disk popular demand! Still buggy?
- Second refactoring: object-oriented module, documentation.
- Moral: adding core functionality is good, and so is documentation.

Peter Heslin

1998/9

2000

2001/2

2002

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2000

2007

Present

Future

2001/2 – Documentation

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• It was at this point that I was sent documentation on binary citation info.

Peter Heslin

1998/9

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2001/2

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Present

Future

2001/2 – Documentation

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- It was at this point that I was sent documentation on binary citation info.
- I fixed the browser to take advantage of some extra speed-up indexing which actually slowed it down.

Peter Heslin

1998/9

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Present

Future

2001/2 – Documentation

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- It was at this point that I was sent documentation on binary citation info.
- I fixed the browser to take advantage of some extra speed-up indexing which actually slowed it down.
- I re-wrote the stopping code in the browser, which made it marginally more correct and substantially slower.

Peter Heslin

1998/9

- 2000
- 2001/2
- 2002
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- 2006
- 2007
- Present
- Future

2001/2 - Documentation

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- It was at this point that I was sent documentation on binary citation info.
- I fixed the browser to take advantage of some extra speed-up indexing which actually slowed it down.
- I re-wrote the stopping code in the browser, which made it marginally more correct and substantially slower.
- Moral: someone else's optimization might not be your own.

Peter Heslin

1998/9

- 2000
- 2001/2
- 2002
- 200
- 2006
- 2007
- Present
- Future

2001/2 - Documentation

- It was at this point that I was sent documentation on binary citation info.
- I fixed the browser to take advantage of some extra speed-up indexing which actually slowed it down.
- I re-wrote the stopping code in the browser, which made it marginally more correct and substantially slower.
- Moral: someone else's optimization might not be your own.
- Moral: it's better to be fast and 98% correct than slow and 99% correct.

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New features

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Peter Heslin

1998/9

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Present

Future

• Links to Perseus morphological tools.

New features

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morals Peter Heslin

Diogenes at 10 years:

milestones and

1998/9

2000

- 2002
- 200
- 2006
- 2007
- Present
- Future

- Links to Perseus morphological tools.
- Coptic support.

New features

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morals Peter Heslin

Diogenes at 10 years:

milestones and

1998/9

2000

- 2002
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- 2006
- 2007
- Present
- Future

- Links to Perseus morphological tools.
- Coptic support.
- Added a dedicated HTTP server. initially to allow running on Windows, but was a faster and cleaner solution all around.

2002 - Version 1.0

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Peter Heslin

1998/9

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2001/2

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Present

Future

• Basic features complete, but ...

2002 - Version 1.0

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Peter Heslin

1998/9

2000

2001/2

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Present

Future

- Basic features complete, but ...
- Hard to install.

Peter Heslin

1998/9

2000

2001/2

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Future

2005 – OS X

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• Increasing number of non-technical OS X users.

Peter Heslin

1998/9

- 2000
- 2001/2
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- 2007
- Present
- Future

2005 – OS X

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- Increasing number of non-technical OS X users.
- Added CPAN directory. Ease of installation and protecting against 3rd-party changes.

2005 – OS X

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morals Peter Heslin

Diogenes at 10 years:

milestones and

- 2000
- 2001/2
- 2002
- 200
- 2006
- 2007
- Present
- Future

- Increasing number of non-technical OS X users.
- Added CPAN directory. Ease of installation and protecting against 3rd-party changes.
- First step in that direction. Moving away from a Unix mentality.

2005 – OS X

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morals Peter Heslin

Diogenes at 10

milestones and

- 1998/9
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- Added CPAN directory. Ease of installation and protecting against 3rd-party changes.
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- Still, many users could not fathom starting the server then the client.

2005 – OS X

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morals Peter Heslin

Diogenes at 10

milestones and

- 1998/9
- 2000
- 2001/2
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- Present
- Future

- Increasing number of non-technical OS X users.
- Added CPAN directory. Ease of installation and protecting against 3rd-party changes.
- First step in that direction. Moving away from a Unix mentality.
- Still, many users could not fathom starting the server then the client.
- Moral: for non-technical users a big, simple bundle is better than having to install many tools.

Peter Heslin

1998/9

2000

2001/2

2002

200

2006

2007

Present

Future

2006 - Version 2.0

• Big attempt to make things simpler.

Peter Heslin

1998/9

- 2000
- 2001/2
- 2002
- 2005
- 2006
- 2007
- Present
- Future

2006 - Version 2.0

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- Big attempt to make things simpler.
- Idea was right: to have client and server in the same package.

Peter Heslin

- 1998/9
- 2000
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- 2002
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- 2006
- 2007
- Present
- Future

2006 – Version 2.0

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- Big attempt to make things simpler.
- Idea was right: to have client and server in the same package.
- Browser in Objective-C using the WebKit framework in OS X, and in Visual Basic, using the .NET framework on Windows.

Peter Heslin

- 1998/9
- 2000
- 2001/2
- 2002
- 200
- 2006
- 2007
- Present
- Future

2006 – Version 2.0

- Big attempt to make things simpler.
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- Browser in Objective-C using the WebKit framework in OS X, and in Visual Basic, using the .NET framework on Windows.
- A nightmare: buggy and unmaintainable.

Peter Heslin

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2006 - Version 2.0

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- A nightmare: buggy and unmaintainable.
- Never released into the wild too hard to cut a release.

Peter Heslin

- 1998/9
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2006 - Version 2.0

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- Browser in Objective-C using the WebKit framework in OS X, and in Visual Basic, using the .NET framework on Windows.
- A nightmare: buggy and unmaintainable.
- Never released into the wild too hard to cut a release.
- Moral: lots of platform-specific code is not the same as cross-platform code.
Version 2.1

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Peter Heslin

1998/9

- 2000
- 2001/2
- 2002
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- 2006
- 2007
- Present
- Future

• More code refactoring: sub-modules.

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morals Peter Heslin

Diogenes at 10 years:

milestones and

1998/9

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• More code refactoring: sub-modules.

• CGI re-written: was spaghetti, removed on-the-fly LaTeX generation.

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morals Peter Heslin

Diogenes at 10 years: milestones and

1998/9

2000

2001/2

2002

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2006

2007

Present

Future

• More code refactoring: sub-modules.

- CGI re-written: was spaghetti, removed on-the-fly LaTeX generation.
- New features: marginal line numbering, user-defined corpora.

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morals Peter Heslin

Diogenes at 10

milestones and

1998/9

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2001/2

- 2002
- 200
- 2006
- 2007
- Present
- Future

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morals Peter Heslin

Diogenes at 10

milestones and

1998/9

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- More code refactoring: sub-modules.
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- New features: marginal line numbering, user-defined corpora.
- Never released: release process too complex.
- Moral: Unless you have slaves, make sure you can cut a release on one machine.

Peter Heslin

1998/9

2000

2001/2

2002

200

200

2007

Present

Future

2007 - Version 3.0

• New platform: Mozilla.

Peter Heslin

1998/9

2000

2001/2

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Present

Future

2007 - Version 3.0

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- New platform: Mozilla.
- Custom browser (XUL and Javascript), starts server automatically.

Peter Heslin

1998/9

2000

2001/2

2002

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2007

Present

Future

2007 - Version 3.0

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Peter Heslin

1998/9

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2001/2

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2007

Present

Future

2007 - Version 3.0

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- Custom browser (XUL and Javascript), starts server automatically.
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- Then my code is added and it is repackaged.

Peter Heslin

1998/9

2000

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Present

Future

2007 - Version 3.0

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- Custom browser (XUL and Javascript), starts server automatically.
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- Then my code is added and it is repackaged.
- Releases for all 3 platforms done via one script on my Linux box.

Peter Heslin

1998/9

2000

2001/2

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2007

Present

Future

2007 - Version 3.0

- New platform: Mozilla.
- Custom browser (XUL and Javascript), starts server automatically.
- All binaries are downloaded from mozilla.org.
- Then my code is added and it is repackaged.
- Releases for all 3 platforms done via one script on my Linux box.
- Moral: let someone else do the porting work!

Peter Heslin

1998/9

2000

2001/2

2002

2004

2006

2007

Present

Future

Version 3.1

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• Perseus morphological data and dictionaries.

Peter Heslin

1998/9

- 2000
- 2001/2
- 2002
- 2004
- 2000
- 2007
- Present
- Future

Version 3.1

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- Perseus morphological data and dictionaries.
- No Perseus code extensive preprocessing of data.

Peter Heslin

1998/9

- 2000
- 2001/2
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Version 3.1

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Version 3.1

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Diogenes at 10 years:

milestones and

1998/9

2000

2001/2

2002

- 2005
- 2006

2007

- Present
- Future

• Perseus morphological data and dictionaries.

- No Perseus code extensive preprocessing of data.
- Big download, but who cares?
- Web 2.0 features.

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milestones and

1998/9

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- Present
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Version 3.1

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Diogenes at 10

milestones and

1998/9

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- Perseus morphological data and dictionaries.
- No Perseus code extensive preprocessing of data.
- Big download, but who cares?
- Web 2.0 features.
- Unicode input.
- Moral: it's easier to distribute data than binaries.

Present

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1998/9

2000

2001/2

2002

2005

2000

2007

Present

Future

• Back-burner – fixing major bugs.

Present

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Diogenes at 10 years: milestones and

1998/9

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Present

Future

- Back-burner fixing major bugs.
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Present

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Diogenes at 10 years:

milestones and

1998/9

- 2000
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- Present
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- Back-burner fixing major bugs.
- Collecting feature requests.
- New features were not allowed to be submitted for the RAE.

Present

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Diogenes at 10 years:

milestones and

1998/9

- 2000
- 2001/2
- 2002
- 2005
- 2006
- 2007
- Present
- Future

- Back-burner fixing major bugs.
- Collecting feature requests.
- New features were not allowed to be submitted for the RAE.
- Moral: do fig-leaf publications and get grants.

Future – Problems

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1998/9

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Present

Future

• General public does not have the CD-ROMS.

Future – Problems

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- 1998/9
- 2000
- 2001/2
- 2002
- 200
- 2006
- 2007
- Present
- Future

- General public does not have the CD-ROMS.
- Perhaps they will disappear.

Future – Problems

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- 1998/9
- 2000
- 2001/2
- 2002
- 200
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- 2007
- Present
- Future

- General public does not have the CD-ROMS.
- Perhaps they will disappear.
- Can't expand the corpus.

Peter Heslin

1998/9

2000

2001/2

2002

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2006

2007

Present

Future

Future – Solutions

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• Output TEI-conformant XML.

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Future

Future – Solutions

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- Output TEI-conformant XML.
- Have Diogenes spit out XML and have client convert to XHTML via XSLT on the fly?

Peter Heslin

1998/9

2000

2001/2

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2009

2006

2007

Present

Future

Future – Solutions

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- Have Diogenes spit out XML and have client convert to XHTML via XSLT on the fly?
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Peter Heslin

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- PhiloLogic?

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- Licensing issues?