

# Carnegie Mellon University

CARNEGIE INSTITUTE OF TECHNOLOGY

## THESIS

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS

FOR THE DEGREE OF **Master of Science**

**TITLE**

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**PRESENTED BY**

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**ACCEPTED BY THE DEPARTMENT OF**

Information Networking Institute

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DATE

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# [Your Title Here]

Submitted in partial fulfillment of the requirements for

the degree of

Master of Science

in

[Program Name]

[First MI. Last]

B.S., Stuff Learned, Some other School  
M.S., More Stuff Learned, Another School

Carnegie Mellon University  
Pittsburgh, PA

April, 2012

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# Acknowledgements

Thank anyone you like here. It's good practice to thank every granting agency that's given you money since you've been working on your research, any other school you visited during your research, and any professional society that's funded your travel.

# Abstract

Write your abstract here. You should not include references or mathematical notation.

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# List of Abbreviations and Symbols

## Symbols

Put general notes about symbol usage in text here. Notice this text is double-spaced, as required.

- |                |                                  |
|----------------|----------------------------------|
| $\mathbb{X}$   | A blackboard bold $X$ . Neat.    |
| $\mathcal{X}$  | A caligraphic $X$ . Neat.        |
| $\mathfrak{X}$ | A fraktur $X$ . Neat.            |
| <b>X</b>       | A boldface $X$ .                 |
| X              | A sans-serif $X$ . Bad notation. |
| X              | A roman $X$ .                    |

## Abbreviations

Long lines in the `sympollist` environment are single spaced, like in the other front matter tables.

- |               |  |
|---------------|--|
| AR            | Aqua Regia, also known as hydrochloric acid plus a splash of nitric acid.  |
| SHORT         | Notice the change in alignment caused by the label width between this list and the one above. Also notice that this multiline description is properly spaced.        |
| OMFGTXTMSG4ME | Abbreviations/Symbols in the item are limited to about a quarter of the textwidth, so don't pack too much in there. You'll bust the margins and it looks really bad. |

# 1

## Introduction

Type your introduction here. This is “technically” your first chapter of the dissertation/thesis.

# 2

## Background

This chapter is an example of how to format normal material in the dissertation style. Most of this information is standard to L<sup>A</sup>T<sub>E</sub>X.

### 2.1 Intra-chapter divisions: Sections

Section headlines are `\Large` and in the standard font. Compare them to subsections below.

#### 2.1.1 Subsections: Wow! Italics!

Yes, italics. You may now dance. Isn't it funny that upright letters are called "roman" while slanted letters are "italic". That's like Italian, and Romans are Italians too. What gives?

*Subsubsections: Smaller and smaller*

Subsubsections are allowed, but are not numbered and don't appear in the table of contents. Likewise, you can use the next level of sectioning.

*Paragraphs* These divisions are unnumbered and do not appear in the Table of Contents.

*Subparagraphs* This is the finest division possible. It's also unnumbered and omitted from the Table of Contents.

## 2.2 Let's do some math

Let's look at an equation:

$$\partial ft = f(t) \quad \text{subject to} \quad f(0) = c. \quad (2.1)$$

We've used the `\newcommand` defined in the preamble of `dissertation.tex` to produce the derivative. You can get a second derivative like  $\partial^2 ft^2$  by adding some sneaky superscripts. Fancy.

More advanced equation formatting is available in the AMS environments. See the guide `amsmath user's guide`. Here are some nice examples of cases people usually have trouble with.

An equation that's too long for one line — use `multline`:

$$\begin{aligned} a + b + c + d + e + f + g + h + i + j + k + l + m + n + o \\ = p + q + r + s + t + u + v + w + x + y + z. \end{aligned} \quad (2.2)$$

An equation with multiple parts and one number per line — use `align`:

$$a_1 = b_1 + c_1 \quad (2.3)$$

$$a_2 = b_2 + c_2. \quad (2.4)$$

The same equation, set inside the `subequations` environment:

$$a_1 = b_1 + c_1 \quad (2.5a)$$

$$a_2 = b_2 + c_2. \quad (2.5b)$$

Notice that by clever placement of labels, I can reference the pair via (3), the first (2.5a), or the second (2.5b). One number for multiple equations can be accomplished using the `split` environment:

$$\begin{aligned} a &= b + c - d \\ &\quad + e - f \\ &= g + h \\ &= i. \end{aligned} \tag{2.6}$$

People often struggle under the complicated and ugly `'eqnarray'` environment. Don't do it! The AMS ones are easy. Other stumbling blocks are cases:

$$a = \begin{cases} b & \text{for } x > 0 \\ c & \text{otherwise,} \end{cases} \tag{2.7}$$

matrices:

$$A = \begin{pmatrix} a_{11} & a_{12} \\ a_{21} & a_{22} \end{pmatrix} = \begin{bmatrix} a_{11} & a_{12} \\ a_{21} & a_{22} \end{bmatrix}, \tag{2.8}$$

and evaluation bars:

$$a = \left. \frac{\partial u}{\partial x} \right|_{x=0}. \tag{2.9}$$

See the source file for details.

When we reference an equation with something like `\eqref (2.1)`. If you click on the above references in the PDF, your viewer should scroll up to the above equation. It's handy. Labels and references may be attached to all sorts of objects. There is a `\label` attached to this chapter (it appears at the top of this file), and we may reference it by `(Chapter~\ref{chap:example})`, producing "Chapter ??". By default these ref's are hyperlinked as well. Later, we'll see labeled and referenced figures and tables. Particular pages may be labeled with standard `\label` commands in the text and referenced via `\pageref`.

You might also like the links from `\cite` commands to the corresponding bibliographic entry. Go look at this imaginary book by Stephen Colbert ?. If you're not a bibtex expert, look in `mybib.bib` at the `@ARTICLE` that generated this entry. It shows an example of accents on author names and how to preserve upper-case for letters in the title. Other entries show the use of the `and` keyword between author names. You may order a particular author's name as either "first last" or as "last, first". The actual format of the bibliography is controlled by the `\bibliographystyle{}` command in `dissertation.tex`.

### 2.3 Table of Contents Behavior

Now is a good time to look back at the Table of Contents. Notice that you may click on entries here to warp to the corresponding document location. In Adobe Acrobat and many other viewers, you can open a 'bookmarks' pane. This should be populated with named and numbered sections and subsections identical to the Table of Contents.

### 2.4 Figures and footnotes

Figures are set with very little space between the caption and the bottom of the included graphic. This is because most graphics programs pad the edges of images. If you find the spacing unsatisfactory, you may always add a bit manually. The text of the caption is single-spaced, and the word 'Figure' is set in small caps. See Figure 2.1. Notice the use of the nonbreakable space "`~`" between the "Fig." and the reference. Figures (and tables) are examples of 'floats' — objects that  $\LaTeX$  decides where to place for you. You may give  $\LaTeX$  some hints. Change the `\begin{figure}[tbp]` to a `\begin{figure}[b!]` to restrict the placement. Inside the `[ ]`, you can put the following



Figure 2.1: Longer caption for actual body of dissertation. Figure captions should be BELOW the figure.

- t Allow placement at the top of the page
  - b Allow placement at the bottom of the page
  - h Allow placement 'here', in the middle of the page close to the text that the figure environment appears next to.
  - p Allow placement on a separate 'floats page' that has no body text.
- ! Tighten the screws on the placement algorithm. This doesn't force things to happen as you say, but it makes it much more likely. Be careful: the bang option can cause figures to appear above the chapter title and in other bad locations.

Notice that each entry just changes what is *allowed*, but no preference among the entries can be registered. The default is [tbp], which is a very good default for a document like this, since floats in the middle of a page trap too much whitespace for double-spaced text. There is also a prohibition against having a page with more than 75% float. Instead, long floats will get kicked over onto float pages. Float pages are often a bad idea, as the creation of one will often cause a domino effect,

with all subsequent figures appearing on float pages themselves, and all these float pages appearing together at the end of the chapter. (This is more like sinking than floating.) Avoid this by physically moving where the figure environment appears in your source file to an earlier location. Don't be afraid to put the environment before the first spot you reference it! Many float problems can be solved by a combination of relocating the figure environment and a little fiddling with the [ ] options.

Also notice the order of the graphic, caption, and label. If you deviate from this, strange things can happen. The caption of this figure shows the use of short captions (inside []). These caption appear in the List of Tables, while the captions appear in the body. If you omit the [ ] short caption, the long caption will be used in its place.

Another technical note: since this style sheet is designed for processing by `pdflatex`, `\includegraphics` looks for PDFs, PNGs, and JPGs instead of the usual PS, EPS, and TIFF formats. You can convert existing graphics with a vareity of tools. PDF graphics are preferred, as they scale nicely. The open-source software Inkscape runs on Mac OSX, Windows, Linux, and some UNIX variants. Versions 0.46 and beyond have great support for creating and editing PDFs. It can even be used to convert other docs.

### 2.4.1 List of Figures

If you've put even one measly figure in your document, grad school rules say you need a List of Figures. It's automatically generated for you if you do a `\listoffigures` in the master file (heck, it's there right now). Go look at the list of figures now. You should be able to click on the figure number to warp to the figure. You'll also see the result of the 'short caption' used above.

Numbers	Letters	Symbols
1	a	†
2	b	☺
3	c	×
4	d	‡

Table 2.1: This is an example table

## 2.5 Table example

Just to make sure tables are formatted correctly, here's an example of a table float, see Table 2.5. You should note that [b] formatting (`\begin{table}[b]`) can cause floats to appear under the footnotes. Try changing it here and see the ugliness. Tables are identical to figures, except that the word 'Table' appears in the caption and its entry is in the List of Tables instead of the List of Figures.

### 2.5.1 Footnotes

Footnotes are allowed.<sup>1</sup> They are numbered with arabic numerals inside each chapter and appear at the bottom of the page.<sup>2</sup> The little footnote numbers are also hyperlinks. Try clicking them. You should place the footnote command immediately following the period of the sentence it is attached to. Any spaces or newlines will result in strange spacing between the number and the sentence.

## 2.6 Corner cases in formatting, such as very very very long section titles. Man, this goes on forever.

Common corner-cases involve very long titles (like above). In these cases, the long titles are set single-spaced both here and in the Table of Contents.

---

<sup>1</sup> But, you should probably just work them into the text since it's annoying to jump around when reading.

<sup>2</sup> ... rather than the end of the chapter or the thesis. Those would properly be endnotes, I guess.

### 2.6.1 Figure and Table caption cases are neat, and this is an absurdly long subsection heading

Consider the shield logo again with an absurd caption, as in Fig. Figure 2.2. Also examine the new table, Table 2.6.1. Both of these have been forced onto a floats page so you can see what that looks like.



## Nonsense text for layout proofing

Enjoy some Lorem Ipsum text! This should create about two full pages of text so you can verify the margins are correct (especially if you're doing two-sided).

### 3.1 Lorem Ipsum

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed vitae leo. Pellentesque quis nisi id orci consectetur posuere. Quisque malesuada rhoncus dui. Vivamus mi. Mauris commodo. Phasellus lacus magna, feugiat ac, blandit ut, rutrum id, massa. In consectetur magna vel justo. Cras eu diam. Nullam tortor turpis, bibendum non, consequat ac, tincidunt non, nisi.

Curabitur sagittis dignissim arcu. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Vestibulum ullamcorper. Curabitur faucibus euismod nulla. Vivamus sagittis. Sed fermentum neque a risus vestibulum convallis. Morbi id massa ut arcu mollis commodo. Aliquam erat volutpat. Pellentesque fringilla pellentesque nisi. Morbi tristique ornare libero. Vestibulum turpis sapien, iaculis ut, cursus non, condimentum in, tortor. Aenean vehicula. Integer egestas tincidunt erat. Aenean euismod ante vel lectus. Duis ac sapien vel erat eu-

ismod aliquet. Vivamus tempor placerat nibh. Curabitur pharetra, orci consequat pulvinar ultricies, orci enim tempor augue, non lacinia orci nisl et nibh. Nunc gravida dictum turpis. Duis sollicitudin commodo massa. Nam ac nunc. Fusce sodales posuere velit. Nunc ullamcorper sodales urna. Donec consectetur accumsan ante. Morbi feugiat rutrum mauris. Praesent malesuada auctor est. Pellentesque quis odio non nulla ornare imperdiet. Aliquam dapibus. Suspendisse posuere, magna in molestie varius, ipsum velit rhoncus nisi, nec bibendum pede mauris in urna. Morbi purus lectus, molestie quis, laoreet id, tincidunt at, ligula.

Praesent sit amet libero id arcu adipiscing tristique. Quisque libero erat, bibendum nec, malesuada in, gravida et, urna. Phasellus molestie vulputate nisi. Nullam massa magna, dignissim ac, accumsan a, scelerisque eu, erat. Nam tellus augue, tempus nec, molestie sit amet, rhoncus vel, libero. Vestibulum at neque. Aliquam laoreet tincidunt mi. Ut laoreet ligula ac urna. Nullam nisl pede, posuere id, dictum a, fermentum vitae, turpis. Nulla ante mauris, euismod et, mollis eu, tempor in, quam.

In pede augue, elementum varius, tincidunt in, condimentum ut, erat. Etiam vulputate faucibus velit. Aliquam porttitor. Nam fringilla adipiscing nisi. Sed in magna. Aenean non ante. Aenean facilisis, nunc sed aliquam porta, magna est aliquam nisi, vitae semper turpis orci ac dolor. Praesent nec tellus. Cras vulputate rhoncus sem. Curabitur eu mi. Mauris euismod lacinia nibh. Suspendisse eget sapien et nunc accumsan elementum. Nulla dapibus. Donec interdum elit mattis velit imperdiet aliquet. Mauris feugiat, ante vel faucibus rutrum, eros mauris sollicitudin neque, ut varius diam ipsum et massa. Nullam non nisi sit amet tortor rhoncus molestie. Cras consectetur condimentum ante. Phasellus fermentum risus fermentum turpis. Mauris dignissim iaculis sem. Fusce nisi lorem, viverra id, auctor et, scelerisque ut, massa. In hac habitasse platea dictumst. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Aliquam pulvinar

neque ac dolor.

### 3.2 More nonsense

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed vitae leo. Pellentesque quis nisi id orci consectetur posuere. Quisque malesuada rhoncus dui. Vivamus mi. Mauris commodo. Phasellus lacus magna, feugiat ac, blandit ut, rutrum id, massa. In consectetur magna vel justo. Cras eu diam. Nullam tortor turpis, bibendum non, consequat ac, tincidunt non, nisi. Curabitur sagittis dignissim arcu. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas.

Vestibulum ullamcorper. Curabitur faucibus euismod nulla. Vivamus sagittis. Sed fermentum neque a risus vestibulum convallis. Morbi id massa ut arcu mollis commodo. Aliquam erat volutpat. Pellentesque fringilla pellentesque nisi. Morbi tristique ornare libero. Vestibulum turpis sapien, iaculis ut, cursus non, condimentum in, tortor. Aenean vehicula.

Integer egestas tincidunt erat. Aenean euismod ante vel lectus. Duis ac sapien vel erat euismod aliquet. Vivamus tempor placerat nibh. Curabitur pharetra, orci consequat pulvinar ultricies, orci enim tempor augue, non lacinia orci nisl et nibh. Nunc gravida dictum turpis. Duis sollicitudin commodo massa. Nam ac nunc. Fusce sodales posuere velit. Nunc ullamcorper sodales urna. Donec consectetur accumsan ante. Morbi feugiat rutrum mauris. Praesent malesuada auctor est.

Pellentesque quis odio non nulla ornare imperdiet. Aliquam dapibus. Suspendisse posuere, magna in molestie varius, ipsum velit rhoncus nisi, nec bibendum pede mauris in urna. Morbi purus lectus, molestie quis, laoreet id, tincidunt at, ligula. Praesent sit amet libero id arcu adipiscing tristique. Quisque libero erat, bibendum nec, malesuada in, gravida et, urna. Phasellus molestie vulputate nisi. Nullam massa magna, dignissim ac, accumsan a, scelerisque eu, erat. Nam tellus augue, tempus nec, molestie sit amet, rhoncus vel, libero. Vestibulum at neque. Aliquam

laoreet tincidunt mi. Ut laoreet ligula ac urna. Nullam nisl pede, posuere id, dictum a, fermentum vitae, turpis. Nulla ante mauris, euismod et, mollis eu, tempor in, quam. In pede augue, elementum varius, tincidunt in, condimentum ut, erat. Etiam vulputate faucibus velit. Aliquam porttitor.

Nam fringilla adipiscing nisi. Sed in magna. Aenean non ante. Aenean facilisis, nunc sed aliquam porta, magna est aliquam nisi, vitae semper turpis orci ac dolor. Praesent nec tellus. Cras vulputate rhoncus sem. Curabitur eu mi. Mauris euismod lacinia nibh. Suspendisse eget sapien et nunc accumsan elementum. Nulla dapibus. Donec interdum elit mattis velit imperdiet aliquet. Mauris feugiat, ante vel faucibus rutrum, eros mauris sollicitudin neque, ut varius diam ipsum et massa. Nullam non nisi sit amet tortor rhoncus molestie. Cras consetetur condimentum ante. Phasellus fermentum risus fermentum turpis. Mauris dignissim iaculis sem. Fusce nisi lorem, viverra id, auctor et, scelerisque ut, massa. In hac habitasse platea dictumst. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Aliquam pulvinar neque ac dolor.

# 4

## Overview

Ea dico populo saperet nam, atqui mundi viris et vim. Te choro aperiri vim.

Duo ignota nonummy ei. Ex augue latine luptatum eum. Omnesque scaevola vis ne, erat perpetua convenire ius in. Duo cu movet sonet corrumpit. Ex eos reque prodesset.<sup>3</sup>

In sint veritus singulis pro, at audire regione luptatum eam. Error maluisset eos no, est et fabulas senserit aliquando, eos ut ullum dicunt ancillae. Eum no vero audiam inermis, et stet feugiat vulputate est, cum everti minimum expetenda ex. Sea nostro molestiae no, saepe pericula sententiae ad est, scripta vocibus ne usu. Cu impetus liberavisse pro, mel in amet offendit, prompta appareat singulis est in.

Te labitur petentium quaerendum sed, ut pro ipsum saepe splendide. Vel cu quidam facilisis, usu harum possit alienum ad. His id fuisset pertinax, ea diceret periculis principes mel. Cu vis aequae utamur deleniti, simul salutatus voluptaria vim cu. Stet natum decore ut eum, mel nulla tibi que et. Et sit commodo conceptam accommodare, per at altera impedit albucius.

#### 4.1 Ea cum sanctus propriae forensibus, mea vidit iriure reprimique ut, ea nam agam kasd comprehensam Pro ei inani facilisi, labores detraxit ad cum

Congue consequat sed ne. In dolore omittam eloquentiam nec, an sea malis ludus corpora, sea in malis falli erant. Id veniam persequeris eam. Augue inani nemore usu at, sea an reque dicam, vis porro animal in. Alii dolorem prodesset quo eu.

Eu aequae definiebas voluptatibus pri. Vel ne meliore elaboraret, propriae scaevola omittantur an mei. His ei mucius ornatus delicata, diam etiam patrioque ea sed. Ut eos persius intellegam dissentiunt, causae impedit te mei. Torquatos signiferumque ut quo.

Vix nibh voluptat ad, an cum mutat facer possit. Pro possit causae facilis ex. Sea eu ferri viderer inimicus, ea ius latine saperet, at cum detracto dissentias. Mea ex epicurei atomorum mandamus, an his dicam molestiae. Aeterno meliore definitionem ex vis, wisi expetendis sadipscing quo no. Eos inermis accumsan ne.

Modo tritani ea duo, vis mazim affert argumentum no. Usu ne ferri utamur nominati. Mei ad modo oportere. Brute minim scribentur ex cum, te vel agam epicuri consetetur. Ea vel mundi ridens inimicus, ad eruditi interpretaris mea, eum eu ferri rebum lorem. Dolore populo quaeque sit ex.

In accusata urbanitas vituperata quo, consulatu torquatos eam ex, tota definitionem quo et. Atqui suscipit suavitate at sea, intellegam theophrastus qui no, te homero temporibus per. Id meis mucius petentium usu, cu nam sonet elaboraret. Sumo accommodare cu pro, ne ornatus delectus consulatu duo, exerci laboramus assentior duo et.

Ea eos dicat everti appetere. Tota lorem scribentur ius ad, an possim noluisse adversarium pro. Everti adipiscing voluptatibus ius an, in ullamcorper necessitatibus vis. Te pro nibh invenire, porro putant salutandi quo ad. Id exerci equidem

suavitate nec, cu sed erat veniam postea. In tale facilisi posidonium per, pri suscipit deterruisset an.

## 4.2 Ipsum

Lorem ipsum vis at liber dicit diceret. Id fierent omittam est, vis natum electram eu, prompta sensibus at vix. Ut mea modus novum reprimique, vel euismod referrentur an. Ne legimus placerat abhorreant nec, no deleniti interesset vis. Vel adhuc graeci cu, ea est graecis fabellas.

Vel ex facer suscipiantur definitiones, mea vituperatoribus sale porro no, ut aliquip disputando sit. Ad graece albucius oporteat nec, vim voluptatum interesset in. Autem mundi eos ei, omnesque voluptaria et pri, falli quaerendum quo cu. Dicit equidem ceteros ne duo, ad oratio nostrud fierent usu, ei aliquyam periculis intellegam vim. Audiam principes sententiae sed et, ex his dicant facilis. Posse primis melius an per, quod assueverit duo id, cu usu animal propriae.

An natum nemore est, et eum quidam semper voluptua, meliore euripidis ei sea. Mei mutat invidunt ex. Vix choro delicata te. Causae mediocrem an his, choro vidisse id est. Mundi dolor id mei, an duo tation omittam.

Ex magna facer torquatos vel. Te pro sumo legere consequat, duo ea luptatum phaedrum. Nec in laboramus interesset cotidieque, deleniti vivendum ex eam, at senserit hendrerit vel. Est rebum falli ad, cu latine viderer efficiendi nec. Vidisse delectus te mei. Eu sanctus patrioque philosophia usu.

At veniam malorum iuaret his, eos soluta ullamcorper ut. Zzril integre sit ut, sed regione percipitur contentiones et, mea no aliquyam efficiendi. Vix et neglegentur definitiones, ne graeco dictas omittam est. Id mel eros soluta corrumpit, oportere torquatos vim an.

An est eligendi efficiendi intellegam, illud putent labitur eu duo. Id fabellas salutatus argumentum has. Qui malorum prompta ex, eu sea nostrud admodum

sensibus. Ex tamquam complectitur has, diceret volumus eam cu. Eam nusquam deleniti ponderum cu. No eam tale moderatius.

Est saepe dicam abhorreant ut, omnes soleat quo no. Duo ceteros pericula inter- esset ut. Nec eu iudico option, persius euismod no eum. Per ea luptatum oporteat qualisque.

Dico veri nec ei, est ne audiam graecis corrumpit. Dico possit an pri, illum feugiat cum ne, ne duo lorem corpora platonem. Cum no aequae feugait, in vis odio nihil. Iusto sadipscing scriptorem ne est. Ius ad salutandi intellegebat.

Nonummy mentitum his an, viris maiorum assentior pri cu, duo errem partiendo quaerendum ad. Cum aperiam sententiae ex. Dolor salutandi pro in, nec ei utinam causae, praesent concludaturque quo te. Id fuisset consequat eum, vide eirmod qui et. Cu tollit ubique concludaturque has, his id sale consecetuer, eu mel discere scripserit. Mei diceret efficiantur eu, no sea doctus meliore reformidans.

Nihil accommodare sit ea, nec et mutat dolorum. Ut conceptam persequeris vis, ea luptatum consetetur nam. Vix ea deleniti evertitur. Has enim consequat id, falli clita duo an.

# Bibliography

# Appendix 1

## Populo Ornatus

Ut quando convenire scripserit mei, ut accusam noluisse eam. At scripta democritum quo, reque everti an qui, posidonium efficiendi ut mel. Pro an reque habemus, augue nemore conceptam in vim. Eu cibo ancillae takimata usu.

No vis albucius rationibus, eum doming ceteros constituto id. Ad suas zzril laudem cum. Natum mollis singulis vel te, ea elit imperdiet duo, odio inermis et eos. Nam ad vocibus tractatos, sit no vidisse diceret omnesque, mollis omnesque ea mea.

Ut est ridens principes scribentur, menandri interesset adversarium ius ut. Ut duo elit dissentias, at sea eleifend scripserit, eam nibh rebum definitiones an. Cum te quaeque epicuri mentitum, his elitr essent et, in sea habeo aliquid convenire. Quo euismod sadipscing definitionem an, ut duo iusto aliquando, graece appetere ne nec.

Consul imperdiet dignissim vis et, mei liber vidisse principes et, eu nam docendi voluptua democritum. Qui no dicat tamquam sanctus, saepe tincidunt no mel. Pro ignota albucius consetetur in, sint qualisque assueverit eam ut, vis graeco denique signiferumque ne. Sale appellantur contentiones eu his, pro magna ornatus ut, ad vidit omnesque euripidis pri. Sea congrue moderatius in, his dicit suscipit no, mei ei incorrupte assueverit. Nusquam nominavi et quo, idque delenit vim an, posse

quaeque an mea.

Suas elitr lucilius sit an, aeterno persius vel eu. Mel at essent aperiam repudiare. Tale consul eum ne, eam no meis delenit iudicabit, an sint mutat pri. Nec no clita propriae pericula, duo explicari gubergren ei. Ne sit autem nominavi, te falli deserunt per. Quo tractatos suscipiantur ex, electram dignissim usu no, cu congue iriure vivendo vim.

At vero graeci fuisset his, quo similique persequeris ad. Ex est graece mandamus, antiopam voluptatum his ea. Assum appellantur mel an, ei mea veri commune efficiendi. Pri blandit urbanitas no. Nam ex enim reque, ut nec iusto regione ullamcorper, facer harum pertinacia mei ei. Erant veniam imperdiet an eam, veniam mucius equidem ius eu, at scripta labitur est.

Et quo soluta graecis accommodare. Tamquam mentitum menandri vim ut. Ut nec melius senserit, ut mei sale aequae. Prompta delectus mea te, fierent adipisci ad per, mei odio pertinax senserit et. Per ut persius singulis. Id qui malorum iracundia, semper conceptam cu sed.

Vis nominavi urbanitas intellegat an, ut numquam deseruisse sea. Et quo dico aequae adipiscings, ius ea commodo epicurei, eum cu nulla imperdiet efficiantur. Ea cum simul scripserit. Ius reque decore voluptaria ei, nec sensibus mediocrem eu, sit iriure vivendo ad. At munere maiestatis mel, ex persius honestatis nec. Nihil omnes definiebas duo cu, dicat ancillae no vix. No est prompta apeirian, mel ad quaestio theophrastus mediocritatem.

Persequeris intellegebat disputationi et nec, nam ne alia solum reque, ad pri clita appellantur reprehendunt. Clita iracundia ex cum, placerat invidunt dissentias ius id. Possit dictas recteque sed ne. At eam singulis recusabo intellegat, ius in probo clita posidonium, id atqui paulo rationibus pro. Ut elit mucius qui. Mel ea ubique nostrud takimata. Cu eos vituperatoribus temporibus feugait.

Per putent nusquam oportere cu, nullam discere te sea, an vix quot mutat. Cibo

reque nostrum nec eu, justo mucius aeterno vis id. Facer tempor cu vix, ex saepe similique maiestatis qui, ne pro eripuit offendit. Id mel cetero efficiantur. Cum homero aeterno euismod an, vulputate definitiones ne quo.

Sed exerci incorrupte et, usu mundi molestiae reformidans in, at probo vocibus quo. Ex vel aliquip maluisset. Qui enim error an, molestie incorrupte an ius. Id maiestatis temporibus mei, tantas oporteat occurreret id pri. Ei nam velit doming utroque.

Suas vituperata mel eu, ex veri omnes duo, an modo molestie ius. At vis moderatius dissentias scripserit, nullam aliquam usu no. Cibo diceret sed an. Sea cu ridens convenire.

Pro prima blandit no. His ut dicit iriure oblique, eos meis urbanitas abhorreant te. Usu cu perpetua principes. Mutat utinam insolens id cum. Quo tale iudicabit conclusionemque ex. Eos id harum accommodare.

Vel legere liberavisse ut, et aequae timeam usu. Vis eu dico sanctus appetere, id vix graecis repudiare, ad persecuti mnesarchum mei. No atqui nemore deseruisse eum. Meliore accumsan accommodare in qui, an tation rationibus has, ea nulla aliquip euismod his.

Utinam ridens cum eu. Duo aliquam omnesque cu, sea elitr appetere ea. Mea no quas discere apeirian, munere hendrerit conceptam duo an, nec ad habeo tritani. Vis exerci volumus no. Omittantur reprehendunt no has. Malis accusata necessitatibus no nam.

No solet assentior ius, an ferri dissentiet pro, vix ad tantas offendit. Pro tollit consequat gloriatur ne, eu vix amet posidonium. Errem utamur veritus vix ea. Sed laboramus omittantur id, ut sonet voluptatum has, cu doctus iriure menandri eos.

Regione iudicabit ei per. Cum ea aliquip voluptatibus. Sit in partem explicari. Ne probo labores placerat mei. Ullum pertinax ea his, per cu persius impedit adipisci. Fabulas ancillae dignissim ei his, ius no nulla melius suscipiantur, ne vel laudem

eripuit gubergren.

Ei qui equidem adolescens. Has ad accusata urbanitas voluptatum, no pri ferri dicit. Ne qui veritus omittam neglegentur, usu et lorem audiam mediocrem. Vim falli dictas labitur cu, dolores laboramus constituto id has, sit ea sint summo utroque.

Mei graecis definiebas eu, ad his brute omittam elaboraret. Ridens laoreet eos ne, diam mnesarchum ne sea. Idque everti ea pro, eruditi probatus patrioque eu has. Cum omnes gubergren ex, cum te noster offendit indoctum. Putant dissentiunt duo ex, dicat etiam cu quo. Duo esse probatus complectitur ex, vitae eripuit nostrum no sed, cum odio veri reformidans ex.

Vide ipsum ei vel, at diam nominavi his. Etiam assueverit nam eu, ut habeo nusquam eleifend mei. Pro eirmod perpetua id, minim urbanitas usu no. Vim elitr nominati definitionem ex. Ex tollit quaerendum has, nonumy inciderint eos ne. Vis posse munere honestatis ut.

Eu ornatus meliore usu, enim aequae possim eu cum. Pri ad everti fabellas, at pro omnium convenire repudiare, ut mel hinc minimum. Eam et puto reque mollis. Sed ad ponderum lobortis, cu pro viris vitae. Est et iriure inimicus, eos eu laoreet feugait voluptatum, agam aliquando voluptatibus pro eu.

Ex tale eirmod nec. Illud conclusionemque ad his. Sit augue error in, eu mea labitur voluptua, labores ullamcorper vis te. No usu enim aperiri facilisi. Ad vis brute soluta fastidii, meis mundi iuaret his ea. Has eu cibo rebum. Mundi numquam repudiare ei cum, pri dicam tritani recusabo ea, pri id appareat qualisque.

Eu facete perfecto nec, te vel tale choro petentium. Mel in essent quodsi, occurreret corrumpit in pri. Est in fabulas similique elaboraret, in viderer delenit vim. Eu vel paulo graeco viderer. Et ius elit debet latine, ad vel ferri voluptaria appellantur.

Vis ad docendi albucius, ne nam sale prima comprehensam. Adhuc inani accusam ex vis. Utamur labitur adipisci nec ei. No persius conceptam adversarium pro, ei dicunt officiis lucilius usu. Te pri petentium vituperata, vis at solum dicit quaeque,

minimum delectus singulis ei vim. His te nibh patrioque dignissim, qui ne euismod argumentum. Quo lucilius sensibus cu.

Est ea nihil debitis deseruisse, mea ne malis nostrum. Vel cu doctus euismod disputationi. Eos ut harum habemus, minim verear maiestatis mei ut. Te nam mundi deseruisse sententiae, pri an nibh eros velit. Ne omnium torquatos ius. Sit id congrue quaeque intellegebat, homero volutpat dissentiunt ne usu, ei elit vituperata reformidans eum.

Ut sed corpora accumsan, his cu vero iriure probatus. Ubique latine ea per, usu no erant facilisis. Augue diceret eruditi ea vel, in diam maiorum ullahcorper eum. Vel no iriure latine suscipiantur, cu nec omittam liberavisse disputationi.

Congue repudiandae delicatissimi ut duo, fastidii iudicabit ut sea, eum integre sadipscing an. Cu vel alii liber, ceteros nostrum expetendis per eu, ne congrue gloriatur vulputate cum. Eius fierent pericula has cu. Ea has atqui perfecto. Pericula torquatos ius ei, convenire theophrastus id sea, in dicit facilis facilisis mel. Nam modo diam occurreret an.

Ferri sensibus eloquentiam quo et, mel an nullam vituperata, mollis dignissim sententiae sit ne. An pro perpetua democritum, te eam feugiat delicata deterruisset. Per minim choro ad, prodesset voluptatum ea usu, ea tempor putent quo. Mazim facete scribentur ea sea. Ea pri doctus feugait, ius eu vituperatoribus menandri, dico munere ubique ne his.

Mel no assum nusquam intellegebat, ius platonem consulatu an. Populo ornatus in sea. Sea soleat salutatus ne. Quo error saepe adolescens at, id cum duis voluptatum. Per maiorum mentitum te. Quem iudicabit percipitur per ea. Qui aliquid eruditi ad, ne vix veritus scripserit.

An duo postea aliquip. Nusquam luptatum id vis. Vim no magna inani. Eos et agam aliquid ancillae, verear ponderum no qui.