

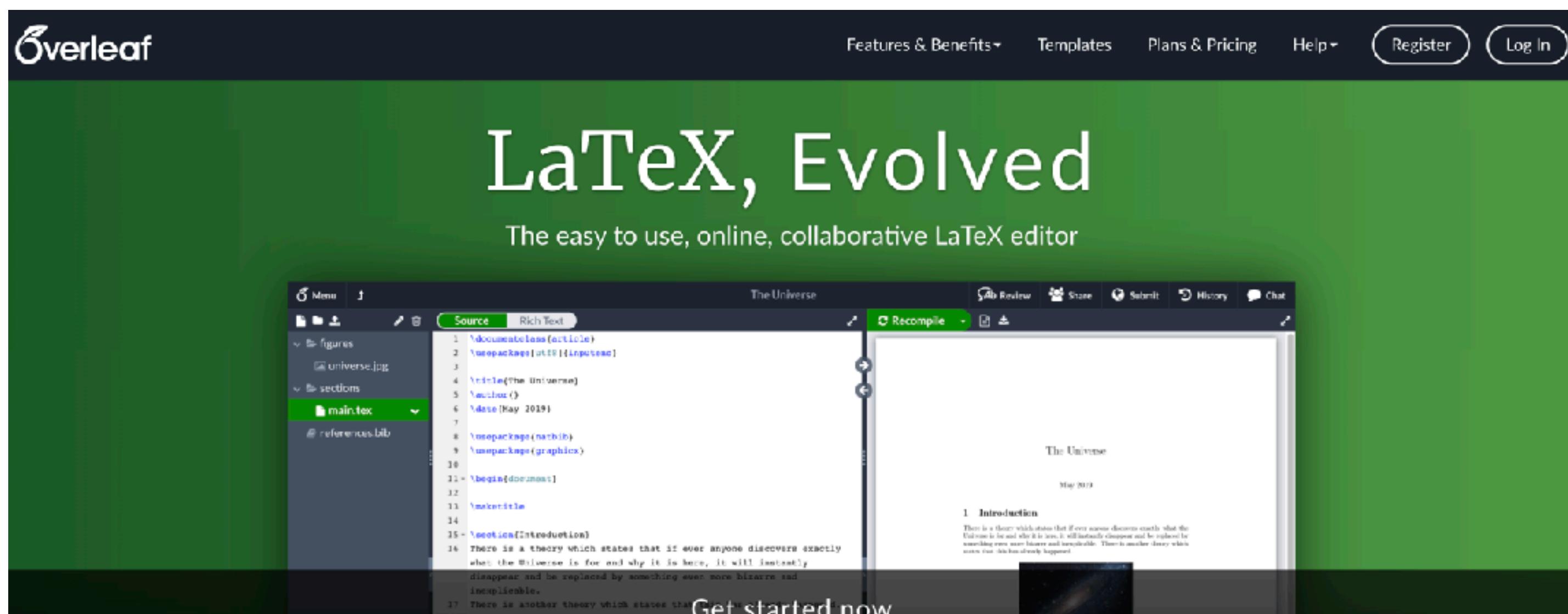
AST1501 - Introduction to Research

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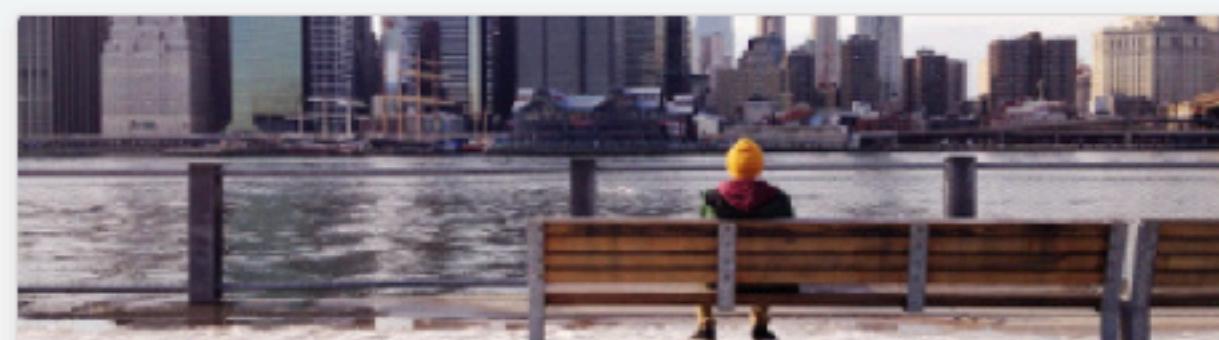
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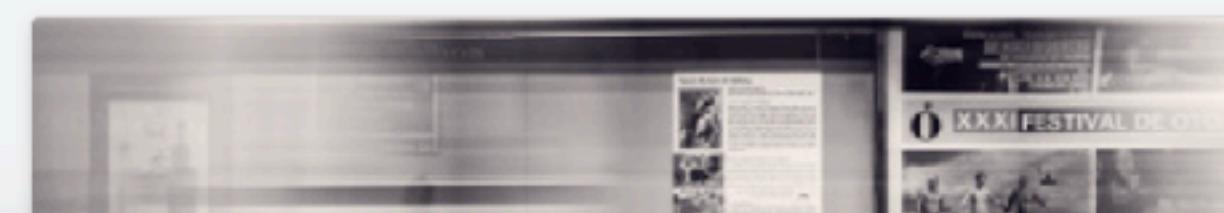
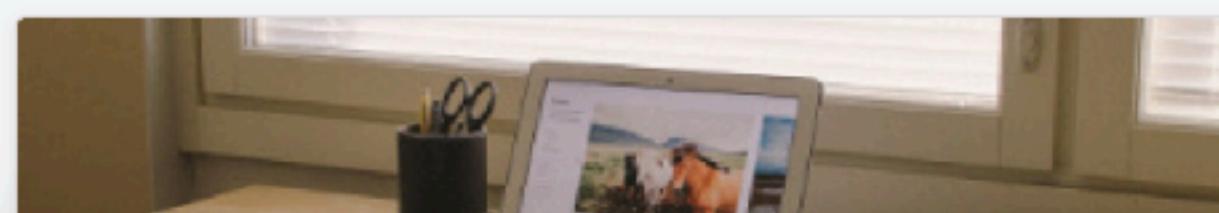
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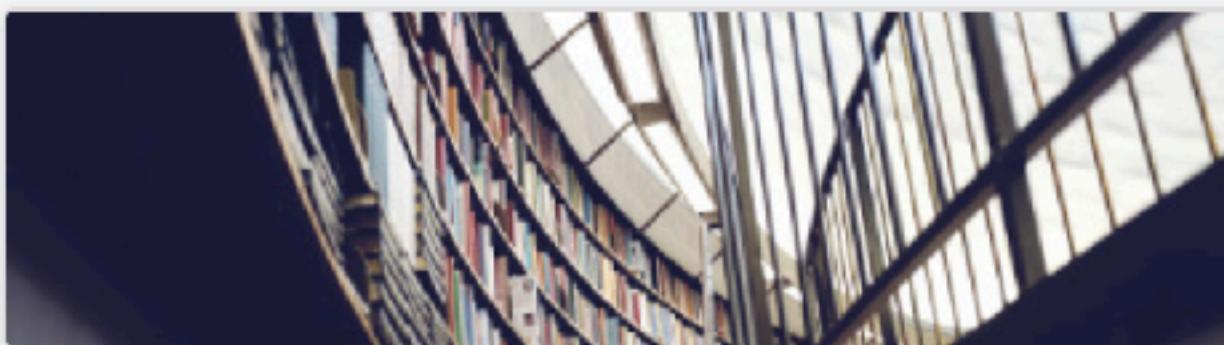
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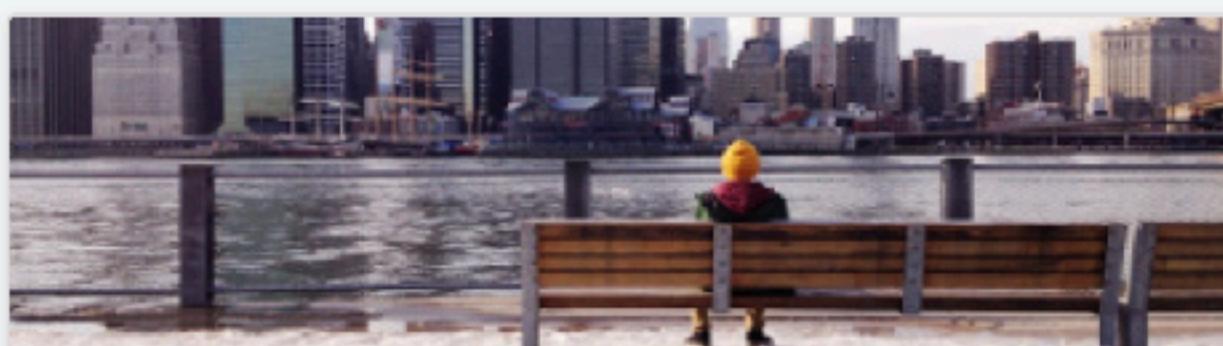
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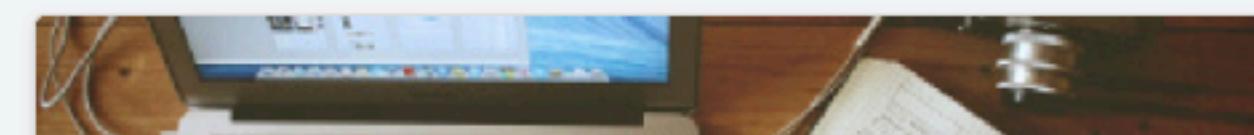
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GREG J. SCHWARZ¹, AUGUST MUENCH,¹
(AAS JOURNALS DATA EDITORS)

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ABSTRACT

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1. INTRODUCTION

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15 %% already be present in the modern TeX distributions but not always.
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17 %% TexLive 2020. One should be able to get all packages from www.ctan.org.
18 %% In particular, revtex v4.1 can be found at
19 %% <https://www.ctan.org/pkg/revtex4-1>.
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21 %% The first piece of markup in an AASTeX v6.x document is the \documentclass
22 %% command. L^AT_EX will ignore any data that comes before this command. The
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28 %% using aastex version 6.3
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aasjournal bst
aastex631.cls
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File outline

- Introduction
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Keywords: Classical Novae (251) — Ultraviolet astronomy(1736) — History of astronomy(1868) — Interdisciplinary astronomy(804)

1. INTRODUCTION

LaTeX¹ is a document markup language that is particularly well suited for the publication of mathematical and scientific articles (Lamport 1994). LaTeX was written in 1985 by Leslie Lamport who based it on the TeX typesetting language which itself was created by Donald E. Knuth in 1978. In 1988 a suite of LaTeX macros were developed to investigate electronic submission and publication of AAS Journal articles (Hanisch & Biemesderfer 1989). Shortly afterwards, Chris Biemesderfer merged these macros and more into a LaTeX 2.08 style file called AASTeX. These early AASTeX versions introduced many common commands and practices that authors take for granted today. Substantial revisions were made by Lee Brotzman and Pierre Landau when the package was updated to v4.0. AASTeX v5.0, written in 1995 by Arthur Ogawa, upgraded to LaTeX 2e which uses the document class in lieu of a style file. Other improvements to version 5 included hypertext support, landscape deluxetables and improved figure support to facilitate electronic submission. AASTeX v5.2 was released in 2005 and introduced additional graphics support plus new mark

```
1 %% Beginning of file
2 %%
3 %% Modified by aastex631.cls
4 %%
5 %% This is
6 %% AASTeX
7 %%
8 %% AASTeX
9 %% (Copyright)
10 %%
11 %% AASTeX
12 %% Latexsy
13 %% Oct 202
14 %% AASTeX
15 %% already
16 %% For exa
17 %% TexLive
18 %% In part
19 %% https://
20 %%
21 %% The fir
22 %% command
23 %% documen
24 %% The com
25 %% typeset, one-column, single-spaced document. It is the default and thus
26 %% does not need to be explicitly stated.
27 %%
28 %% using aastex version 6.3
29 \documentclass[linenumber]{aastex631}
30 %%
31 %% The default is a single spaced, 10 point font, single spaced article.
32 %% There are 5 other style options available via an optional argument. They
33 %% can be invoked like this:
34 %%
35 %% \documentclass[arguments]{aastex631}
```

Intro to computing

Overview

- The Terminal
- Code editors
- git
- GitHub



The Terminal

The Terminal

- Even in the age of powerful code editors, will spend a lot of time in the terminal, especially when doing remote computing
- Things to cover:
 - Basic commands: cd, ls, rm (-i and -rf), rmdir, less, cat, grep, top, df/du, wget/curl,
 - Basic structure of UNIX file systems
 - Environment variables, echo
 - Start-up files
 - Aliases



Code editors



git

Why use Version control?

- Version control keeps the history of changes to your code (or documents, images, etc., but text files work best), allowing you to trace changes over time. This frees you from having to track changes manually.
- Most version control systems use a *central location* for the main copy of your code, which acts as
 - A crucial back-up of your work
 - A central place to share your code with yourself (for use on multiple machines) and others (e.g., collaborators)
- Branches allow you to keep multiple in-progress versions of your code that can be developed in-parallel and merged later

git version control

- git is the latest and greatest version control system, probably the only one you've heard of
- git has a decentralized approach to version control: by default, each version (“clone”) of the code *repository* has the *full history of changes*
- git is now closely associated with GitHub although technically they are independent from each other