

LABORATORY06: Report and Presentation of work on Bibliography and Citations

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December 2025

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1 The BibLaTeX Workflow With Natbib - BibLaTeX and Natbib Workflow

```
---
```

```
bibliography:
```

```
- learnlatex.bib
```

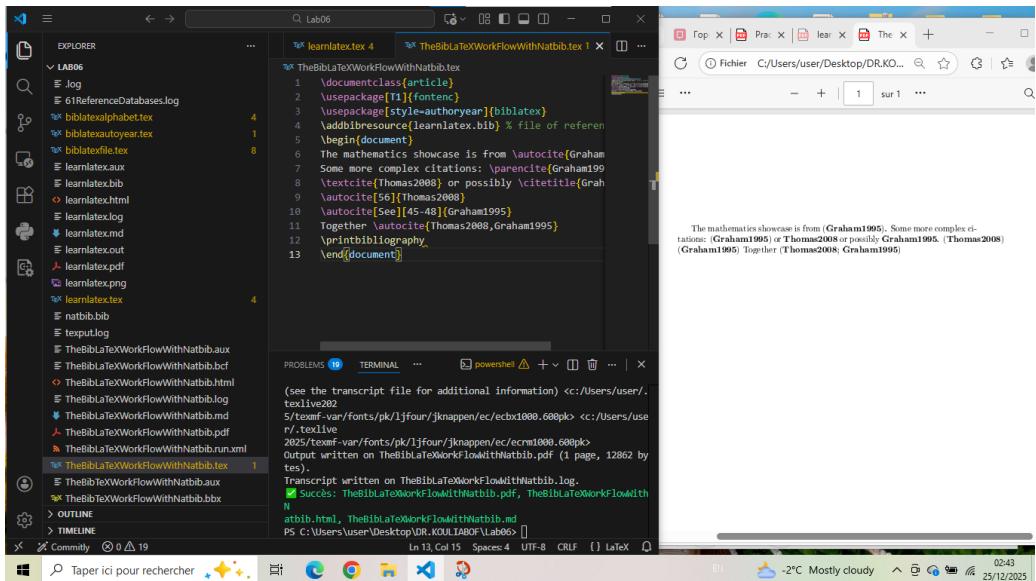
```
--
```

```
The mathematics showcase is from [@Graham1995]. Some more complex citations:  
[@Graham1995] or @Thomas2008 or possibly . [@Thomas2008 56] [See @Graham  
1995 45–48] Together [@Thomas2008; @Graham1995]
```

Generated figure (simulation)

Markdown document with BibLaTeX citations.

Imported image



2 learnlatex - Basic Bibliography Document

```
---
```

```
bibliography:
```

```
- Pratical scientific dissertation KOULYABOV C.bib
```

```
title: Mon Document avec Bibliographie
```

```
--
```

```
# Introduction
```

```
This document demonstrates how to use a bibliography with LaTeX.
```

```
# Citations
```

```
Here somes citations:
```

```
## scientifics Articles
```

L'article de Thomas et al. [Thomas2008] studies iron complexes for hydrogenase modeling. This research is important for understanding the redox properties of catalysts.

```
## Livre de r f rence
```

Le livre *Concrete Mathematics* of Graham, Knuth and Patashnik [Graham1995] is an essential reference in discrete and concrete mathematics.

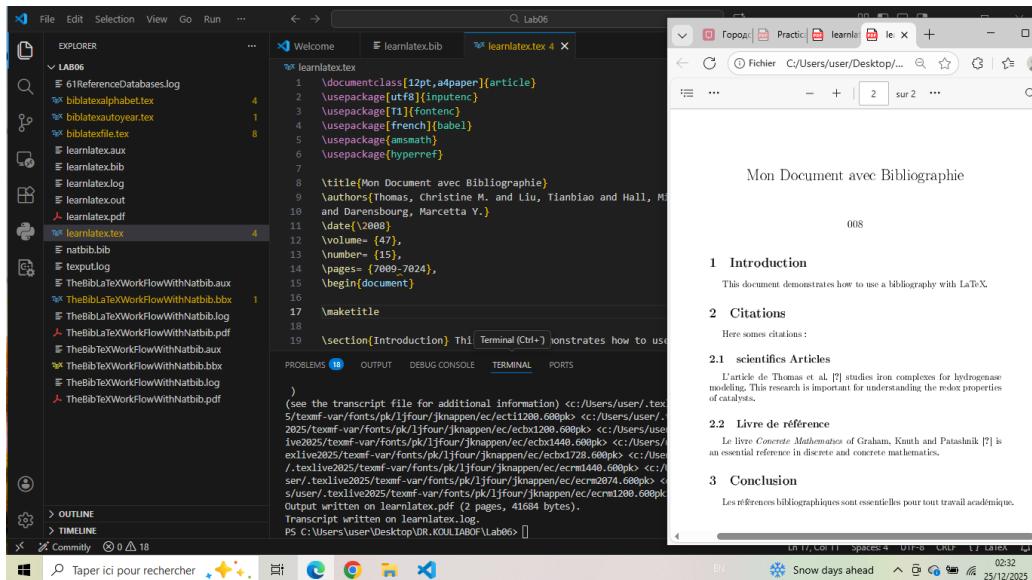
```
# Conclusion
```

Les r f rences bibliographiques sont essentielles pour tout travail acad mique.

Generated figure (simulation)

Bilingual document with bibliography references.

Screenshot



3 exolatexnatbib - NatBib Examples

```
---
author:
- Votre Nom
bibliography:
- references.bib
date: 2025-12-25
title: Exemple avec NatBib
```

```

---  

# Test avec NatBib (Pele T. Koulyabov C. Konstantin L. -2025)  

## Citations  

Voici quelques citations de notre base de données:  

- Citation simple: @Thomas2008  

- Citation entre parenthèses: [@Graham1995]  

- Citation avec pages: [@Thomas2008 pp. 7010-7015]  

- Multiple citations: [@Thomas2008; @Smith2020; @Doe2019]  

## Citation qui n'existe pas  

Essayons une citation qui n'est pas dans la base: @Nonexistent2023  

## New entry  

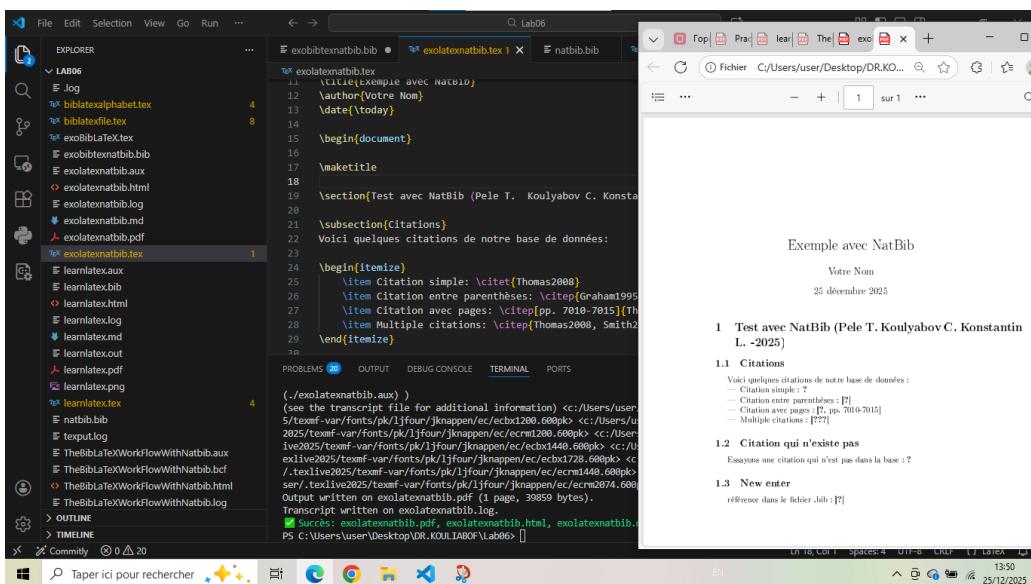
référence dans le fichier .bib: [@Doe2019]

```

Generated figure

NatBib citation examples with metadata.

Screenshot



4 exoBibLaTeX - Comprehensive BibLaTeX Exercise

```

---  

author:

```

```

- Votre Nom
bibliography:
- references.bib
date: 2025-12-25
title: Exercice Biblatex - Test Complet
---

# Introduction

Test complet de biblatex avec différentes fonctionnalités.

# Citations de base

## Citations simples

- Article: @Thomas2008

- Livre: [@Graham1995]

- Avec pages: [@Thomas2008 7010-7015]

- Multiple: [@Thomas2008; @Smith2020; @Doe2019]

## Commandes de citation avancées

- Auteur seulement: @Smith2020

- Année seulement: [-@Graham1995]

- Auteur et année: @Thomas2008 ([-@Thomas2008])

# Test de citations manquantes

Citation qui n'existe pas dans la base: @ReferenceManquante2025

# Ajout de nouvelles références

- Référence existante: [@Doe2019]

- Nouvelle référence (ajouter au .bib): @NouveauLivre2024

# Comparaison des styles

Testez en changeant le style dans le préambule:

- 'style=authoryear': (Auteur, Année)

- 'style=numeric': \[1\], \[2\], \[3\]

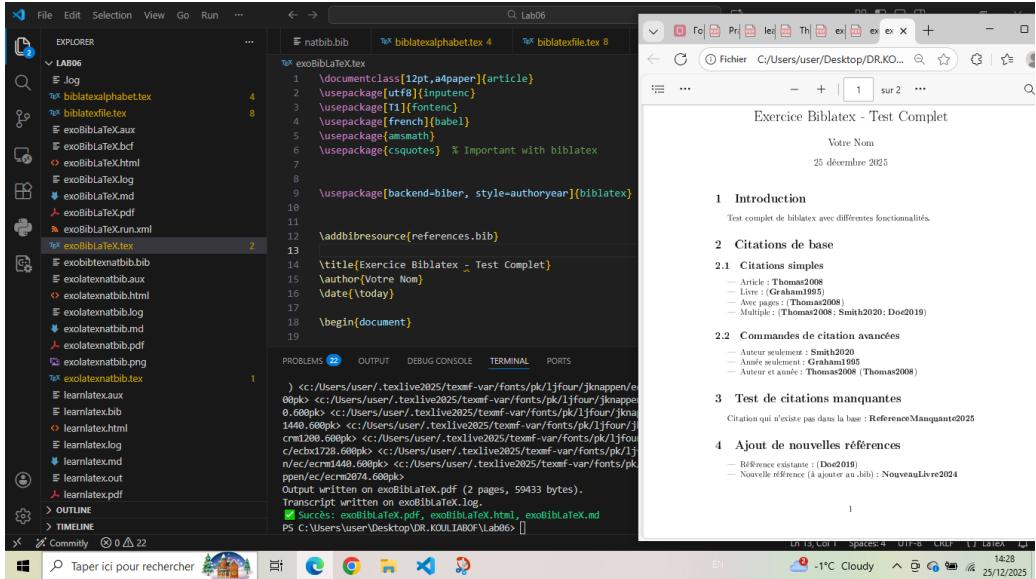
- 'style=alphabetic': \[Tho08\], \[Gra95\]

```

Generated figure

Advanced BibLaTeX testing with style comparisons.

Screenshot



5 biblatexfile - BibLaTeX with Numerical Style

```
---
bibliography:
- references.bib
---

# Test biblatex avec style numérique {#test-biblatex-avec-style-numérique
.unnumbered}

Voici quelques citations pour tester biblatex :

- Une citation simple [@Thomas2008]

- Une citation de livre [@Graham1995]

- Une citation de conférence [@Smith2020]

- Une citation multiple [@Thomas2008; @Graham1995; @Smith2020]

# Test d'une citation non existante {#test-d'une-citation-non-existante .
.unnumbered}

Essayons de citer quelque chose qui n'existe pas dans la base : [@Unknown
2023]

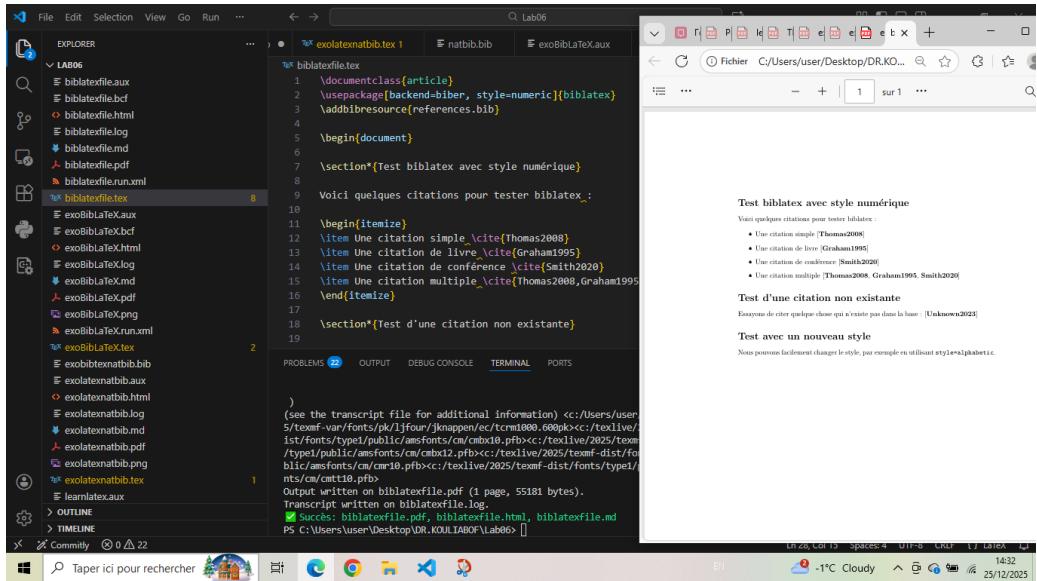
# Test avec un nouveau style {#test-avec-un-nouveau-style .unnumbered}

Nous pouvons facilement changer le style, par exemple en utilisant 'style=
alphabetic'.
```

Generated figure

BibLaTeX with numerical style and custom sections.

Screenshot



Conclusion: Methodology for Bibliographic Work

After analysis of bibliography and citation examples, here is the structured methodology for academic referencing:

1. Essential document structure for bibliographies

```
---
author:
- Your Name
title: Document Title
date: YYYY-MM-DD
bibliography:
- references.bib
---
```

2. Basic citation patterns

Type	BibLaTeX/Natbib	Description
Simple	@AuthorYear	In-text author citation
Parenthetical	[@AuthorYear]	Citation in brackets
With pages	[@AuthorYear pp. X-Y]	Citation with page range
Multiple	[@Author1; @Author2]	Multiple references
Author only	@AuthorYear	Cites author in text
Year only	[-@AuthorYear]	Cites only year

3. Recommended workflow

Step 1: Prepare bibliography file

- Create .bib file with references
- Use consistent formatting
- Include all required fields

Step 2: Document setup

1. Specify bibliography file in YAML header
2. Choose citation style
3. Configure citation commands

Step 3: Cite references

- Use appropriate citation format
- Check reference existence
- Include page numbers when needed

Step 4: Generate bibliography

- Compile document
- Generate bibliography
- Verify citations

4. Best practices

Practice	Description
Consistent formatting	Same style throughout document
Complete references	All required fields in .bib entries
Regular updates	Keep bibliography current
Style compliance	Follow journal/format requirements
Error checking	Verify all citations resolve
Backup .bib files	Keep bibliography files safe

5. Common citation styles

Selecting the right style:

1. **Authoryear:** (Author, Year) - for humanities and social sciences
2. **Numeric:** [1], [2], [3] - for sciences and engineering
3. **Alphabetic:** [Gra95], [Tho08] - for specific journal requirements
4. **Chicago:** Author (Year) - for history and some social sciences

6. Troubleshooting guide

- **Missing citations:** Check .bib file entries and compilation order
- **Formatting errors:** Verify style package compatibility
- **Duplicate entries:** Use unique keys for each reference
- **Unresolved citations:** Ensure citation keys match .bib entries

Final recommendation: Start with a well-organized .bib file, use consistent citation practices throughout your document, and always verify the final bibliography before submission. Bibliographic management is crucial for academic credibility and proper attribution of sources.