

# LABORATORY06: Report and Presentation of work on Bibliography and Citations

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December 2025

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# 1 TheBibLaTeXWorkFlowWithNatbib - BibLaTeX and Natbib Workflow

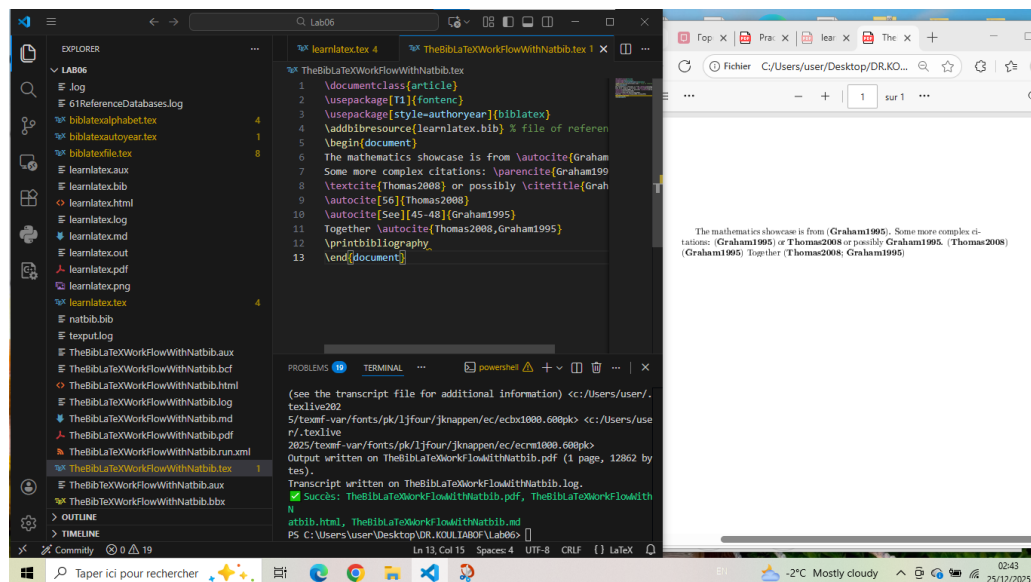
```
---
bibliography:
- learnlatex.bib
---
```

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

## 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 some 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 r e n c e

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

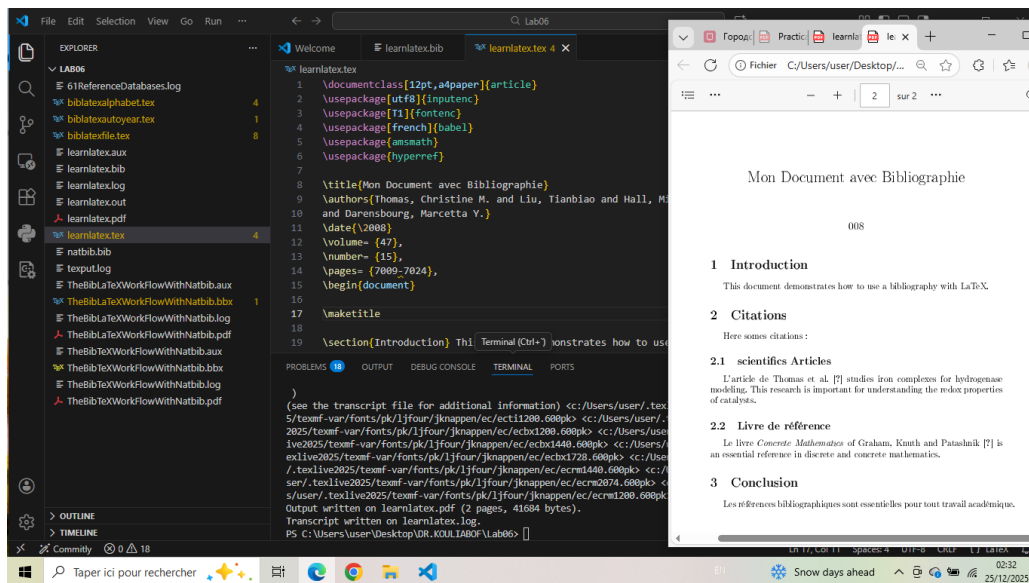
# Conclusion

Les r f r e n c e s 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 enter

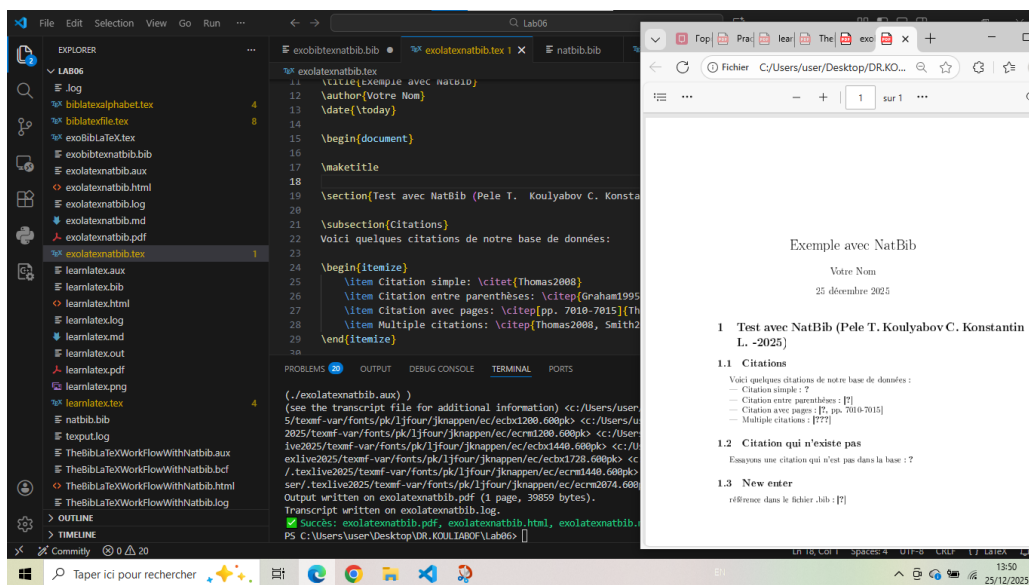
r f r e n c e dans le fichier .bib: [@Doe2019]

```

## 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 diff erentes fonctionnalit s.

# Citations de base

## Citations simples

- Article: @Thomas2008

- Livre: [@Graham1995]

- Avec pages: [@Thomas2008 7010-7015]

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

## Commandes de citation avanc es

- Auteur seulement: @Smith2020

- Ann e seulement: [-@Graham1995]

- Auteur et ann e: @Thomas2008 ([-@Thomas2008])

# Test de citations manquantes

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

# Ajout de nouvelles r f rences

- R f rence existante: [@Doe2019]

- Nouvelle r f rence ( ajouter au .bib): @NouveauLivre2024

# Comparaison des styles

Testez en changeant le style dans le pr ambule:

- 'style=authoryear': (Auteur, Ann e)

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

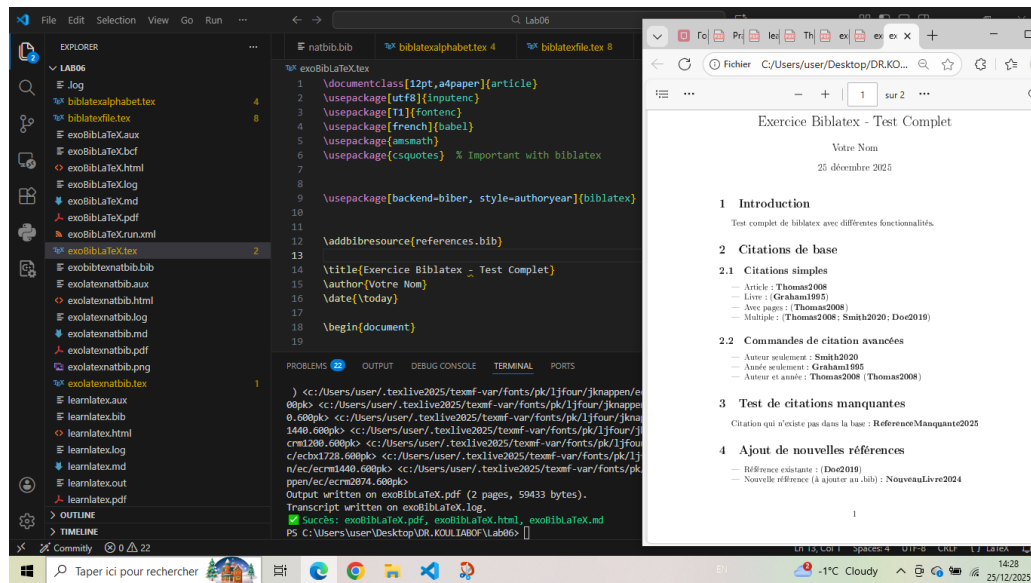
- 'style=alphabetic': \[Tho08\], \[Gra95\]

```

## 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-dune-citation-non-existante .
unnumbered}

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

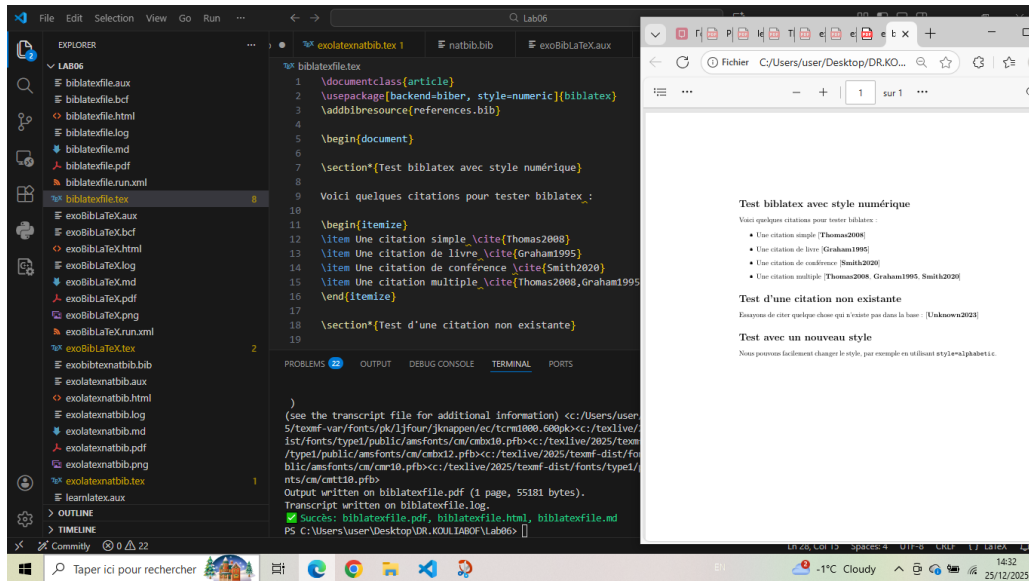
# Test avec un nouveau style {#test-avec-un-nouveau-style .unnumbered}

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 <code>.bib</code> entries
Regular updates	Keep bibliography current
Style compliance	Follow journal/format requirements
Error checking	Verify all citations resolve
Backup <code>.bib</code> 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.