

eta cpp

eta cpp: An In-Depth Exploration of ETA in C++ Programming

In the world of software development, understanding algorithms and their efficiencies is crucial for building high-performance applications. One such concept that often appears in algorithm analysis and optimization is the "ETA," which can refer to various aspects like Estimated Time of Arrival in networking or progress estimation in processes. When combined with C++, a language renowned for its performance and control, ETA concepts become even more significant. This article delves into the meaning, implementation, and applications of ETA in C++, providing a comprehensive understanding for developers and enthusiasts alike.

Understanding ETA in the Context of C++ Programming

What is ETA?

ETA, or Estimated Time of Arrival, is a metric used to predict the time remaining for a process or task to complete. In the context of C++ programming, ETA often relates to:

- Progress estimation during lengthy computations
- Network data transmission durations
- Algorithm performance prediction

While ETA is a universal concept, its implementation in C++ requires particular techniques and considerations due to the language's features and performance characteristics.

Why is ETA Important in C++ Applications?

Implementing ETA calculations in C++ applications can enhance user experience and optimize system performance. Some reasons include:

- Providing real-time updates in user interfaces
- Managing expectations during long-running processes
- Allowing adaptive resource allocation based on progress
- Diagnosing performance bottlenecks

Effective ETA estimation can make applications more interactive, responsive, and resource-efficient.

Common Scenarios Where ETA is Used in C++

Performance Monitoring and Profiling

Developers often incorporate ETA estimations during profiling to understand how long certain functions or processes take, especially when dealing with:

- Large data processing
- Simulation runs
- Rendering tasks

Network Transmission and Data Streaming

In network programming with C++, ETA helps estimate how long data transfers will take, which is critical for:

- File uploads/downloads
- Streaming media
- Distributed systems synchronization

Progress Indicators in User Interfaces

For applications with GUIs, ETA can be displayed to inform users about ongoing tasks, such as:

- Data analysis
- File conversions
- Backup processes

Implementing ETA in C++: Techniques and Methodologies

Basic Approach to ETA Calculation

The simplest method to estimate ETA involves tracking:

- The start time of the process
- The amount of work completed
- The total amount of work to be done

Using these, the ETA can be approximated with the formula:

```
```cpp
ETA = (elapsed_time / work_done) (total_work - work_done)
```
```

This approach assumes a relatively linear progression, which may not always be accurate but provides a good starting point.

Step-by-Step Implementation

1. Record the start time:

Use `<<chrono>` library for high-resolution timing.

2. Track progress:

Update the amount of work completed periodically.

3. Calculate elapsed time:

Measure time since process start.

4. Estimate remaining time:

Apply the formula to compute ETA.

```
```cpp
```

```
include
```

```
include
```

```
using namespace std;
```

```
using namespace std::chrono;
```

```
class ProgressEstimator {
```

```
private:
```

```
 steady_clock::time_point start_time;
```

```
 size_t total_work;
```

```
 size_t work_done;
```

```
public:
```

```
 ProgressEstimator(size_t total) : total_work(total), work_done(0) {
```

```
 start_time = steady_clock::now();
```

```
 }
```

```
 void update(size_t work_increment) {
```

```
 work_done += work_increment;
```

```
 print_eta();
```

```
 }
```

```
 void print_eta() {
```

```
 auto now = steady_clock::now();
```

```
auto elapsed = duration_cast(now - start_time).count();
```

```
if (work_done == 0) {
```

```
 cout <return;
```

```
}
```

```
double rate = static_cast(work_done) / elapsed;
```

```
size_t remaining_work = total_work - work_done;
```

```
double eta_seconds = remaining_work / rate;
```

```
cout <<<}
```

```
};
```

```
...
```

## Advanced Techniques for More Accurate ETA

While the basic method provides a rough estimate, more sophisticated techniques include:

- Moving averages: Smooth out fluctuations in progress rate.
- Exponential smoothing: Give more weight to recent progress.
- Progress modeling: Use machine learning models to predict ETA based on historical data.
- Adaptive estimation: Adjust ETA calculation based on observed deviations.

## Challenges and Considerations in ETA Calculation

### Non-Linear Progression

Many processes do not progress linearly. For example:

- Tasks may accelerate after initial setup
- Tasks may slow down due to resource contention

To address this, algorithms often incorporate adaptive models that re-estimate ETA dynamically.

## Variability in Processing Speed

Factors like CPU load, I/O bottlenecks, and network latency can cause fluctuations. Using moving averages or smoothing techniques helps mitigate these issues.

## Handling Edge Cases

- Zero work completed at start
- Very short tasks where ETA may be meaningless
- Tasks with unpredictable durations

Designing ETA systems should include checks and fallback mechanisms for these scenarios.

## Tools and Libraries Supporting ETA in C++

### Standard C++ Libraries

- `<chrono>`: For high-resolution timing
- `<thread>`: To simulate delays and track concurrency

### Third-Party Libraries

- Boost: Provides timing tools and progress bars
- ProgressBar: A C++ library specifically for progress and ETA visualization
- libprogress: For more complex progress management

# Best Practices for Implementing ETA in C++ Applications

## 1. Keep it Simple Initially

Start with a straightforward linear estimation approach. Refine as needed.

## 2. Use High-Resolution Timers

Employ `std::chrono::steady_clock` for accurate timing unaffected by system clock adjustments.

## 3. Update Progress Periodically

Avoid excessive updates to prevent performance degradation.

## 4. Handle Special Cases Gracefully

Implement fallback messages or indicators when ETA cannot be reliably estimated.

## 5. Visualize ETA Clearly

In user interfaces, display ETA in a user-friendly manner, such as minutes and seconds.

## Real-World Example: ETA in a File Download Application

Imagine a C++ application that downloads files over the network. Incorporating ETA involves:

- Tracking total file size
- Monitoring bytes downloaded

- Calculating download speed periodically
- Estimating remaining time based on current speed

```
```cpp
// Pseudocode outline

size_t total_bytes = ...;

size_t downloaded_bytes = 0;

auto start_time = steady_clock::now();

while (downloading) {
    // Download chunk

    size_t chunk_size = download_next_chunk();

    downloaded_bytes += chunk_size;

    // Calculate elapsed time

    auto now = steady_clock::now();

    auto elapsed_seconds = duration_cast(now - start_time).count();

    // Calculate download speed

    double speed = downloaded_bytes / static_cast(elapsed_seconds);

    // Estimate ETA

    size_t remaining = total_bytes - downloaded_bytes;

    double eta_seconds = remaining / speed;

    // Display progress and ETA

    cout <<}
```
```

This approach provides users with real-time feedback, improves transparency, and enhances user experience.

# Conclusion

ETA estimation in C++ is a vital aspect of building responsive, user-friendly, and efficient applications. Whether managing long computations, network transfers, or user interface updates, accurately predicting task completion times helps set realistic expectations and optimize resource usage. Implementing ETA involves understanding process dynamics, employing effective timing mechanisms, and adopting adaptive models to handle real-world variability. By leveraging C++'s powerful features and libraries, developers can craft ETA systems that are both robust and insightful, ultimately leading to better software design and improved user satisfaction.

## Key Takeaways:

- ETA is crucial for progress tracking and user communication.
- Simple linear models serve as a starting point; advanced methods improve accuracy.
- Proper handling of edge cases ensures reliability.
- Combining ETA with visual indicators enhances user experience.
- Continuous refinement and adaptation are necessary for complex or unpredictable tasks.

By mastering ETA techniques in C++, developers can significantly elevate the performance and usability of their applications, making them more transparent and efficient in handling long-running processes.

# Frequently Asked Questions

## What is ETA in C++ and why is it important?

ETA in C++ typically refers to 'Estimated Time of Arrival' in the context of algorithms or processes, but in programming, it can also relate to event timing or performance metrics. Understanding ETA helps developers optimize code execution and improve real-time system performance.

## How can I measure ETA in a C++ program?

You can measure ETA in C++ using timing functions like `<chrono>` to record elapsed time and estimate remaining time based on progress or processing rates. Libraries like `<chrono>` provide high-resolution clocks for precise measurements.

## Are there any C++ libraries that help with ETA calculations?

While there aren't dedicated ETA libraries, you can use standard libraries like `<chrono>` for timing and custom algorithms to estimate remaining time based on current progress and processing speed.

## How can I improve the accuracy of ETA predictions in C++ applications?

To improve ETA accuracy, gather more detailed progress metrics, use adaptive algorithms that account for changing processing speeds, and incorporate smoothing techniques to reduce fluctuations in ETA estimates.

## What are common use cases of ETA in C++ development?

Common use cases include progress tracking in long-running computations, file downloads, data processing tasks, and real-time monitoring systems where estimating remaining time enhances user experience.

## Can I implement ETA in multi-threaded C++ programs?

Yes, but with care. You need to synchronize progress updates across threads to accurately estimate ETA. Using thread-safe mechanisms or atomic variables helps maintain consistent timing and progress metrics.

## What challenges are associated with ETA estimation in C++?

Challenges include variability in processing speed, unpredictable workload, accurately measuring

progress, and handling asynchronous or multi-threaded environments, which can complicate precise ETA calculation.

## **Are there best practices for displaying ETA in C++ command-line applications?**

Yes, best practices include updating ETA periodically rather than continuously, smoothing out fluctuations, providing clear units (seconds, minutes), and ensuring that updates do not interfere with program output or performance.

## **How does the 'eta cpp' community contribute to improving ETA estimation techniques?**

The community shares algorithms, best practices, and open-source tools for more accurate and efficient ETA estimation in C++. Discussions and repositories help developers implement robust solutions adaptable to various applications.

## **Additional Resources**

eta cpp: Revolutionizing C++ Development with Asynchronous Programming and Modern Features

In the rapidly evolving landscape of software development, C++ remains a cornerstone language renowned for its performance, efficiency, and versatility. However, as applications grow more complex and demand higher concurrency, traditional synchronous programming paradigms increasingly hit their limits. Enter eta cpp, a groundbreaking C++ library designed to bring modern asynchronous programming capabilities, inspired by languages like Kotlin and frameworks such as Kotlin Coroutines, into the C++ ecosystem. This review delves into the core features, architecture, benefits, and practical usage of eta cpp, illustrating its potential to transform C++ development workflows.

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# Introduction to eta cpp

eta cpp is an open-source C++ library that introduces advanced asynchronous programming constructs, such as coroutines, futures, and task schedulers, enabling developers to write more concise, readable, and efficient code. Its primary goal is to bridge the gap between high-level language features and C++'s low-level performance, allowing for scalable, non-blocking applications without sacrificing speed.

Originating from the need to handle high concurrency workloads, eta cpp leverages modern C++ standards (notably C++20) to provide a robust framework for asynchronous programming. It abstracts complex thread management, synchronization, and callback chains, empowering developers to focus on business logic rather than concurrency plumbing.

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## Core Features and Capabilities

eta cpp packs a suite of powerful features tailored for modern C++ development:

### 1. Native Support for Coroutines

- Built upon C++20 coroutines, eta cpp offers seamless coroutine support, enabling functions to suspend and resume execution efficiently.
- Simplifies asynchronous code by allowing developers to write code that appears synchronous but executes asynchronously.
- Provides custom promise types and awaitable objects optimized for high performance.

## **2. Futures and Promises**

- Implements a flexible futures/promises system for deferred computation results.
- Supports chaining, composition, and exception handling, facilitating complex asynchronous workflows.
- Integrates with coroutines to provide a unified asynchronous programming model.

## **3. Task Scheduling and Executors**

- Includes customizable task schedulers to manage execution contexts.
- Supports thread pools, work-stealing algorithms, and priority-based task execution.
- Enables fine-grained control over concurrency and resource management.

## **4. Asynchronous I/O Integration**

- Designed to work seamlessly with asynchronous I/O operations, including network, file, and timer events.
- Compatible with popular libraries like Boost.Asio, enhancing its versatility.

## **5. Lightweight and Zero-Overhead Abstractions**

- Emphasizes minimal runtime overhead, preserving C++'s performance advantages.
- Uses compile-time optimizations and template metaprogramming to reduce runtime costs.

## **6. Error Handling and Cancellation**

- Provides robust mechanisms for propagating errors through asynchronous chains.
- Supports cancellation tokens to abort ongoing tasks gracefully.

## 7. Cross-Platform Compatibility

- Designed to work across major operating systems—Windows, Linux, macOS.
- Compatible with various compilers, including GCC, Clang, and MSVC.

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## Architectural Overview

Understanding eta cpp's architecture is crucial to appreciating its power and flexibility. Here's a breakdown of its main components:

### 1. Coroutine Support Layer

- Implements custom coroutine traits and promise types tailored for high-performance asynchronous operations.
- Manages suspension points, resumption, and state preservation efficiently.

### 2. Concurrency Primitives

- Futures: Represent values that will be available at a later time.
- Promises: Set the value or exception for associated futures.
- Awaitables: Objects that can be awaited within coroutines.

### 3. Task and Scheduler Management

- Tasks: Encapsulate asynchronous operations, often represented as coroutine handles.
- Executors: Abstract execution contexts, manage scheduling policies, and thread pools.
- Scheduler: Orchestrates task execution, balancing load and optimizing throughput.

## 4. I/O Integration Layer

- Provides adapters to integrate with asynchronous I/O libraries.
- Ensures non-blocking operations for network sockets, files, timers, etc.

## 5. Error and Cancellation Handling

- Implements mechanisms similar to try-catch for asynchronous flows.
- Cancellation tokens propagate request to abort ongoing tasks, freeing resources promptly.

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## Advantages of Using eta cpp

The adoption of eta cpp brings numerous benefits to C++ projects, especially those requiring high concurrency and responsiveness:

### 1. Improved Code Readability and Maintainability

- Asynchronous code written with coroutines resembles synchronous code, reducing complexity.
- Clear linear flow makes debugging and reasoning about code easier.

### 2. Performance Efficiency

- Minimal runtime overhead due to compile-time optimizations.
- Effective use of thread pools and task schedulers to maximize CPU utilization.

### 3. Enhanced Scalability

- Simplifies writing scalable network servers, real-time data processing, and GUI applications.
- Handles thousands of concurrent tasks without blocking main threads.

### 4. Modern C++ Standards Adoption

- Leverages C++20 features, ensuring future-proof codebases.
- Encourages best practices in asynchronous programming.

### 5. Seamless Integration

- Compatible with existing C++ libraries and frameworks.
- Facilitates integration with popular I/O libraries, networking stacks, and other concurrency tools.

### 6. Cross-Platform Portability

- Enables development of portable high-performance applications across different operating systems.

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## Practical Usage and Code Examples

To illustrate eta cpp's capabilities, here are some typical use cases and example snippets:

### 1. Basic Asynchronous Function with Coroutines

```
```cpp
```

```
include
```

```
include
```

```
eta::task fetch_data() {  
    co_return 42; // Simulate an async fetch  
}
```

```
int main() {  
    auto result = eta::sync_wait(fetch_data());  
    std::cout << result << "\n";  
    return 0;  
}
```

This example demonstrates how straightforward it is to write asynchronous functions using coroutines. The `eta::task` type allows the function to suspend and resume seamlessly.

2. Chaining Asynchronous Operations

```
```cpp
```

```
eta::task process() {
 int data = co_await fetch_data();
 std::cout << "Data: " << data << "\n";
 // Further async operations
}
```

```
int main() {
 eta::sync_wait(process());
 return 0;
}
```

Chaining multiple asynchronous steps becomes intuitive, resembling synchronous code but executing asynchronously.

### 3. Using Executors and Task Scheduling

```
```cpp
include

int main() {
    eta::thread_pool_executor executor(4);
    auto future = eta::async(executor, []() {
        // Perform some heavy computation
        return 123;
    });
    int result = future.get();
    std::cout <return 0;
}
```
```

This snippet shows how to run tasks on a thread pool, optimizing resource utilization.

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## Integration with Existing Ecosystems

eta cpp is designed to complement existing C++ libraries and frameworks, making it highly adaptable:

- Boost.Asio: Can be integrated to handle asynchronous network I/O with coroutines.
- Standard Library: Fully compatible with C++20, leveraging standard coroutines, futures, and threading

primitives.

- Third-party Libraries: Works alongside logging, serialization, and database libraries, facilitating comprehensive application architectures.

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## Challenges and Considerations

While eta cpp offers significant advantages, developers should be aware of potential challenges:

- Learning Curve: Requires familiarity with modern C++ features and asynchronous programming concepts.
- Compiler Support: Full coroutine support depends on compiler maturity; some features may be experimental in certain environments.
- Debugging Async Code: As with any asynchronous framework, debugging can be more complex than synchronous code, necessitating proper tooling.

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## Future Outlook and Developments

The landscape of C++ asynchronous programming continues to evolve, and eta cpp positions itself at the forefront of this movement. Future enhancements may include:

- Expanded I/O adapters for emerging protocols.
- Better tooling support for debugging and profiling async code.
- Integration with task-aware profiling tools.
- Enhanced cancellation and timeout mechanisms.

The community-driven development model ensures that eta cpp will adapt to emerging needs, standards, and hardware innovations.

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## Conclusion

eta cpp stands as a significant step forward in modernizing C++ asynchronous programming. By harnessing C++20 coroutines, combined with a thoughtfully designed architecture, it simplifies complex concurrent workflows, boosts performance, and maintains C++'s hallmark efficiency. Whether developing high-performance servers, real-time applications, or scalable client software, eta cpp provides the tools necessary to write clean, maintainable, and highly concurrent code.

For developers eager to embrace the future of C++ development, exploring eta cpp offers a promising avenue toward more expressive and performant software solutions. As it continues to mature, its impact

## Eta Cpp

**eta cpp:** Advances in Intracellular Fluid Research and Application: 2013 Edition , 2013-06-21 Advances in Intracellular Fluid Research and Application: 2013 Edition is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about ZZZAdditional Research in a concise format. The editors have built Advances in Intracellular Fluid Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about ZZZAdditional Research in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Advances in Intracellular Fluid Research and Application: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

**eta cpp: Advances in Acoustic Microscopy** Andrew Briggs, Walter Arnold, 2013-11-11 This is the second volume of Advances in Acoustic Microscopy. It continues the aim of presenting applications and developments of techniques that are related to high-resolution acoustic imaging.

We are very grateful to the authors who have devoted considerable time to preparing these chapters, each of which describes a field of growing importance. Laboratories that have high-performance acoustic microscopes are frequently asked to examine samples for which the highest available resolution is not necessary, and the ability to penetrate opaque layers is more significant. Such applications can be thought of as bridging the gap between acoustic microscopy at low gigahertz frequencies, and on the one hand nondestructive testing of materials at low megahertz frequencies and on the other hand medical ultrasonic imaging at low megahertz frequencies. Commercial acoustic microscopes are becoming increasingly available and popular for such applications. We are therefore delighted to be able to begin the volume with chapters from each of those two fields. The first chapter, by Gabriele Pfannschmidt, describes uses of acoustic microscopy in the semiconductor industry. It provides a splendid balance to the opening chapter of Volume 1, which came from a national research center, being written from within a major European electronics industry itself. Dr Pfannschmidt describes the use of two quite different types of acoustic microscopes, and points out the advantages of each for specific purposes.

**eta cpp:** Prediction of Span Loading of Straight-wing/propeller Combinations Up to Stall M. A. McVeigh, 1975

**eta cpp: Linear Algebra in Action** Harry Dym, 2013-12-31 Linear algebra permeates mathematics, perhaps more so than any other single subject. It plays an essential role in pure and applied mathematics, statistics, computer science, and many aspects of physics and engineering. This book conveys in a user-friendly way the basic and advanced techniques of linear algebra from the point of view of a working analyst. The techniques are illustrated by a wide sample of applications and examples that are chosen to highlight the tools of the trade. In short, this is material that many of us wish we had been taught as graduate students. Roughly the first third of the book covers the basic material of a first course in linear algebra. The remaining chapters are devoted to applications drawn from vector calculus, numerical analysis, control theory, complex analysis, convexity and functional analysis. In particular, fixed point theorems, extremal problems, matrix equations, zero location and eigenvalue location problems, and matrices with nonnegative entries are discussed. Appendices on useful facts from analysis and supplementary information from complex function theory are also provided for the convenience of the reader. In this new edition, most of the chapters in the first edition have been revised, some extensively. The revisions include changes in a number of proofs, either to simplify the argument, to make the logic clearer or, on occasion, to sharpen the result. New introductory sections on linear programming, extreme points for polyhedra and a Nevanlinna-Pick interpolation problem have been added, as have some very short introductory sections on the mathematics behind Google, Drazin inverses, band inverses and applications of SVD together with a number of new exercises.

**eta cpp: National Security** Kim Masters Evans, 2007 Contains primary and secondary source materials, including graphs, charts, quotes, and articles, that provide information about national security in the United States, covering organization, international terrorism, the War on Terror, homeland security, countries of concern, proliferation of weapons, American civil liberties, human rights, and U.S. relations with the Islamic world.

**eta cpp: Naval Engineers Journal** , 1962

**eta cpp:** Accertamenti sull'età e la personalità del minore nel procedimento penale Corrado Rizzo, 2007

**eta cpp: Canadian Bankruptcy/Insolvency and Companies' Creditors Arrangement Law: Provisions, Precedents and Materials** Lyndon Maither,

**eta cpp: Patterns of Global Terrorism** , 2003

**eta cpp: The Massacre in History** Mark Levene, Penny Roberts, 1999 The role of massacre in history has been given little focused attention either by historians or academics in related fields. This is surprising as its prevalence and persistence surely demands that it should be a subject of serious and systematic exploration. What exactly is a massacre? When - and why - does it happen? Is there a cultural, as well as political framework within which it occurs? How do human societies

respond to it? What are its social and economic repercussions? Are massacres catalysts for change or are they part of the continuity of the human saga? These are just some of the questions the authors address in this important volume. Chronologically and geographically broad in scope, *The Massacre in History* provides in-depth analysis of particular massacres and themes associated with them from the 11th century to the present. Specific attention is paid to 15th century Christian-Jewish relations in Spain, the St. Bartholomew's Day massacre, England and Ireland in the civil war era, the 19th century Caucasus, the rape of Nanking in 1937 and the Second World War origins of the Serb-Croat conflict. The book explores the subject of massacre from a variety of perspectives - its relationship to politics, culture, religion and society, its connection to ethnic cleansing and genocide, and its role in gender terms and in relation to the extermination of animals. The historians provide evidence to suggest that the massacre is often central to the course of human development and societal change.

**eta cpp: Pretoria Student Law Review 2020-14-2** Simon Motshweni, 2020-01-01 About the publication Honoured to present to you, the reader, the 2020 edition of the Pretoria Student Law Review (PSLR), an annual publication which is the pride of the best law faculty in Africa (according to the Times Higher Education World University Rankings). The University of Pretoria's Law Faculty ranks in the top 100 law faculties in the world, a feat unequalled in Africa. The PSLR is a student driven law review that creates an interactive forum for students, academics and legal professionals to discuss topical legal matters that challenge the status quo. At the beginning of this year, lay the fantasy of newness — presenting an opportunity to do great things. But as I reflect on the journey leading to this publication, I understand that the 2020 edition of the PSLR had an engine that ran on hope; faith; dedication; perseverance; commitment and hard work. Our predecessors had a vision to create a boldly outlined legacy for the PSLR, they spearheaded the setting up of a system that would last the lifespan of the PSLR. Today, some 13 years after the first edition of the PSLR, South Africa, the continent and the world at large are on the cusp of a new era — socially, economically and politically. When my journey as Editor-in-Chief commenced, I imagined the PSLR as a ship, whose captain was myself. Customarily, it is easy to be a captain of a ship in calm seas, but unlike most of my predecessors, I have had to be the captain of a ship through the heftiest of storms. The world was not truly prepared to face challenges presented by the Covid-19, let alone the PSLR. In the wake of the 4IR and this new age of technology, sailing this ship to success was still a heavy task to complete. It is therefore with great honour to have been able to successfully complete the task for which we, the 14th cohort of the Editorial Board, were called for. We have upheld the esteemed reputations that have been left by our predecessors. Fittingly, I wish to applaud my team for their inspiring commitment, outstanding contribution and service in maintaining the elevated standard of the PSLR. For indeed it is a publication, par excellence. Amidst the storms, we have spearheaded the establishment of a 'free-floating' PSLR Collection in the OR Tambo Law Library. This collection is dedicated to house all published PSLR editions, dating since the inception of the PSLR in 2007. We have established and strengthened relations with other Law Faculties in the country, and even beyond. We published the very first special edition of the PSLR, a focused edition that covers a critical issue brought before the South African Law Deans Association — the Decolonisation of Legal Education. We have established a system by which all authors who publish with us, ought to have an ORCID iD. We have adopted internal regulations that outline the principles that govern the Editorial Board. We have spearheaded the adoption and implementation of a policy that forces us to comply with DHET Standards in order to be a DHET Accredited Journal so as to encourage and foster a student culture of critical research & writing in legal academia. I am truly proud of the work that the authors have put into their articles and I would like to thank them for their submissions and tireless efforts to produce quality articles. More-so, I am proud of the Editorial Board for being able to work under immense pressure. This edition would have not been possible without the dedication and hard work of this dream team. I remain indebted to you all: Adelaide Chagopa, Kayla Thomas, Marcia van der Merwe, Nicholas Herd and Phenyio Sekati. It has been a great pleasure and a privilege to have worked with you on this annual edition. A note of thanks to Dr Gustav Muller in his capacity as the

Guardian of the PSLR. To the reviewers, your adjudication lays the foundation for each edition, year-in-yearout. Your support and contribution to the PSLR remains invaluable. To Lizette Hermann, Elzet Hurter and Mornay Hassen, thank you for your continued and immeasurable support throughout this journey. To Primrose E.R Kurasha, thank you for believing in me and for guiding me. I am forever indebted to you my friend. To my family: Elizabeth Mtshweni; Jostina Mtshweni; Clayton Mtshweni; Lucas Berto Mateus; Stephine Mashilo and Lerato Mashilo, words cannot begin to express my gratitude for all the support you have given me throughout this journey. Thank you for keeping me sane through one of the toughest times of my 'publishing' career. Thank you for the endless amount of support and the unconditional love you give me always. You are the power & oil that kept this engine running, all by the sufficient grace of God. I hereby pass the baton and entrust the next Editor-in-Chief with the difficult task of running faster and running a better marathon than myself and my predecessors. To you future author, I implore you to start writing, for the water does not flow until the faucet is turned on. To you the reader, Jurgen Zwecker was right: enjoy the read — without fear to question what is in front of you, for that is the only way we, as scholars, grow. Simon Motshweni Editor-in-Chief 2020 Table of Contents Editors' note by Simon Motshweni Statutory utility rights to realise access to services as a characteristic of adequate housing by Gustav Muller The experiences of women and barriers for career advancement in tertiary institutions in a South African context by Bernardete Mendes 'I've changed' says South African law: Has the judiciary opened up to black women lawyers? by Cebolenkosi Makhaye Sexual orientation and gender identities (SOGI) law and social change by Chanelle van der Linde Game of Thrones: The battle of the Mphephus by Gudani Tshikota Critical race theory and feminist legal theory: Perspectives on transformation of the judiciary by Hayley C. Warring International law rules relating to migration arising from rising sea-levels by Keketso G. Kgomo Sotho The constitutionality of warrantless search and seizure operations by Khalipha Shange The constitutionality of warrantless search and seizure operations by Lehlohonolo January A comparative analysis of the proposed mandatory nature of employment legislation and its interaction with the choice of law of an international contract by Marcia van der Merwe Property rights and the basic structure of the Constitution: The case of the Draft Constitution Eighteenth Amendment Bill by Martin van Staden Speak no law without justice: Evaluating the retrospective force of declarations of unconstitutionality with specific reference to *Qwelane v SAHRC & Others* (686/2018) [2019] ZASCA 167 194 by MP Fourie & Marno Swart A critique of the determination of a composite supply for VAT purposes in South Africa: Lessons from selected countries by Mzwandile Ngidi Workers of the world, un-united: A discussion through a gendered lens on why stronger protection of workers in the informal economy will better equip South Africa to cope with labour market changes of the Fourth Industrial Revolution by Shaniaé Maharaj Dismantling the status quo: Prohibiting unfair discrimination on the grounds of poverty under capitalism by Sohela Surajpal Neoliberalism and inequality in post-apartheid South Africa by Thabiso Mfete When life gives you law, make lemonade: Exploring the 'legalised' oppression of black women in the United States of America and South Africa and their musical response thereto by Thandeka N. Khoza The Fourth Industrial Revolution: A case for educational transformation by Thembekile M. Mtshweni The Gabriel Fernandez case: A comparative analysis of a 'mandated reporter' in light of the Children's Act by Thiavna Subroyen Transformative adjudication and the place of administrative law in South African jurisprudence: *ABSA Bank Limited v Public Protector* by Tshepo Twala & Mpho Mogadime The pas de deux between education and recreation: Facilitating the realisation of Articles 11 and 12 of the African Charter on the Rights and Welfare of the Child in Schools by Thandeka N. Khoza & Cebolenkosi Zuma

**eta cpp: Innovation, Communication and Engineering** Teen-Hang Meen, Stephen Prior, Artde Donald Kin-Tak Lam, 2013-10-08 This volume represents the proceedings of the 2013 International Conference on Innovation, Communication and Engineering (ICICE 2013). This conference was organized by the China University of Petroleum (Huadong/East China) and the Taiwanese Institute of Knowledge Innovation, and was held in Qingdao, Shandong, P.R. China, October 26 - November 1, 2013. The conference received 653 submitted papers from 10 countries,

of which 214 papers were selected by the committees to be presented at ICICE 2013. The conference provided a unified communication platform for researchers in a wide range of fields from information technology, communication science, and applied mathematics, to computer science, advanced material science, design and engineering. This volume enables interdisciplinary collaboration between science and engineering technologists in academia and industry as well as networking internationally. Consists of a book of abstracts (260 pp.) and a USB flash card with full papers (912 pp.).

**eta cpp: Improved Aeroprediction Code** Frankie Gale Moore, Roy Mitchell McInville, Thomas C. Hymer, 1993 New and improved version of the Naval Surface Warfare Center, Dahlgren Division aeroprediction code (AP93) has been developed. The new code contains new technology that allows planar aerodynamics of axisymmetric solid rocket-type weapons to be computed with engineering accuracy over the entire Mach number range and for angles of attack to 30 deg. New technology developed and included in the AP93 includes; A new engineering method to compute aeroheating information at a high Mach number; Extension of the second-order shock-expansion theory to include real-gas effects, including several new pressure prediction techniques; An improved body-alone nonlinear normal-force method; New methods for computing nonlinear aerodynamics of wing alone, wing body, and body wing due to angle of attack, and wing body due to control deflection; and a new base-dmg database and improved empirical base-drag estimation technique. ... Aeroprediction code (AP93), Planar aerodynamics, High mach number.

**eta cpp: Canadian Bankruptcy Reports** , 1993

**eta cpp: Patterns of Global Terrorism 2002** ,

**eta cpp: *Clinical Tuberculosis*** Peter Barnes, Peter D. O. Davies, Stephen B Gordon, 2008-04-25 Over three previous editions, *Clinical Tuberculosis* has established itself as an indispensable guide to all aspects of tuberculosis diagnosis and treatment. This fully revised and updated fourth edition provides practical guidance to healthcare professionals involved in any aspect of patient management or disease control; chapters are included on epidemiology, pathology, immunology, disease presentation, diagnosis, treatment and management options. The problem of TB associated with HIV infection is given special emphasis, as are the increasing problems of multi-drug resistant strains and environmentally opportunistic mycobacteria. Chapter authors have been hand-picked to represent the most up-to-date thinking in their particular subject areas, making *Clinical Tuberculosis* the essential reference work for the bookshelves of respiratory physicians, infectious disease specialists, public health workers and other individuals involved in the management and control of tuberculosis worldwide.

**eta cpp: The Canada Income Tax Act: Enforcement, Collection, Prosecution - A Case Compilation, 6th Ed.** The "First Book" I really wrote. Another, written for Kim Neufeld [of McGill Law School][who made her 18 yr successful career evaluating legal talent in NYC and across America back in the early 2000's] for being Proper - and Professionally Conservative, w/ historic Discipline (something I value, still, the most) - her dry professionalism is the memory that kept me going, from what I merely observed in her while academically interacting, as my Originating Destined-to-be-a-Great-Lawyer-Too, Tax I Professor back in 1987 <https://www.youtube.com/watch?v=7duPNQCp-w4> : I was researching and writing FOR A JUDGE all the way along (I always had drive to do her proud since contact - she has too-nice a face, and definitely manner (She CARRIES Herself, Perfectly), not to smile ... <https://www.youtube.com/watch?v=WTetM-jo83M> I remember thinking "I'm going to win her writing a book on Her subject...but what do I know about The Law of income tax!!? Everyone will tell you about the forms and the math...but She looks at it, humbly, maturely, from a gentle, - serious and simply sincere - feminine, dry, 'lawyerly' perspective, all w/ professional "curiosity" - as anyone in a scientific academic stream should have to excel...from the cases of fact, Judges, and, ACT, a beautiful woman, with a highly insightful, at-that-early-stage studious mind...THAT, I'll remember and treasure on my death bed. More than a mere tax accounting teacher: a pending GREAT

lawyer too!" - who did pan out, YOU, prepared me so so so well - All By Yourself: ALL my successes, before and afterwards, are yours, all my failures are mine alone! YOU, got ME to "LIVE IN" court-rooms all my life Kim - where the qualified adjudicate the punishing of Act-violators who stain our Cdn landscape w/ their contempt for it, rather than build it, and the "paternally"-caring back-bone of the country is unquestionably acknowledged and accepted. THIS IS WHERE WE DETERMINE OUR LIVES, THIS IS WHERE, AS A SOCIETY, grossly and minutely, we regulate and govern ALL ourselves, You captured my heart on contact - from "where I came from" - where "I, Lyndon Maither" could apply myself, the mind would mature the more I "studied your language", in time. You, showed me Great Light Kim! Where I applied myself. YOU earned well and can rest on your laurels, and I Will Only Honour Them. <https://www.youtube.com/watch?v=sMmTkKz60W8> - for us all (Crowns who only-possible logically process, - and their law student aspirants I get to now help - to Judges for the only-possible stern logical outcome - adhering to our law, to be followed by lay-observers for them to TRY to learn and adhere also)...

<https://www.youtube.com/watch?v=cPtMgsN8Tpo> ...for only all of your immortal utter beauty Kim, (hard work - to carry The Standard, and v successful effort, and life-long integrity) into perpetuity now...<https://www.youtube.com/watch?v=izZtr5g-4WY> So, of course this book is about and for You Kim: it's your very language - that You started me with - the imposition and collection of income taxes, which is secularly universal - "The Simplier 'Yes/No' Question" - fact-meeting-Act: as said, "I just took it and RAN". AND, just what would I know about it? (While you wouldn't want me to actually practice the avoidance of tax with trusts - which I never did, where I canvassed as many issues as possible...I did write You a foundational specimen on partnerships, w/out pointing out any weaknesses as well. All, cognizant of THESE RIGHT HERE embedded provisions, that you were there to teach me, 38 years ago: the payment of tax. ...you'll note the deep questioning of all case circa when it comes to the others: THESE I never questioned, only illustrating.)

[https://www.youtube.com/watch?v=cPtMgsN8Tpo&list=RDcPtMgsN8Tpo&start\\_radio=1](https://www.youtube.com/watch?v=cPtMgsN8Tpo&list=RDcPtMgsN8Tpo&start_radio=1) ...

<https://www.youtube.com/watch?v=rmydvz5uyGA> BECAUSE, I DON'T research and write books on the imposition/application of "only our very" Law (whatchya think, of my Life's work? Everything did indeed come from YOU Kim...), with its Investigatory Procedures (to be cherished for adherence to/severely sanctioned for break-down) as is the instance w/ this one, and the judicial cases that they generated (giving you solid steady guidance, in our less reasoned always darkly-ulteriorly-motivated present World), which are created out of love for US ALL by ALL of US, for ANYONE ELSE: and that started in 1987, which I never out-grew, staying forever young. ..."Miss Neufeld, is it true that a little bit of law can get you into a lot of trouble, because, the ITA is a little bit of law isn't it?"

[https://www.youtube.com/watch?v=RRfASjZu9mI&list=RDfRRfASjZu9mI&start\\_radio=1](https://www.youtube.com/watch?v=RRfASjZu9mI&list=RDfRRfASjZu9mI&start_radio=1) [My eyes are sore: you're The Person who alleviates that...because I read that case too.] ... it's a great reason to live: that I did, indeed! From meeting You Kim.

[https://www.youtube.com/watch?v=NGorjBVag0I&list=RDNGorjBVag0I&start\\_radio=1](https://www.youtube.com/watch?v=NGorjBVag0I&list=RDNGorjBVag0I&start_radio=1)

Lyndon Maither, The Most Intensive of Love happened to me when I was 23...in the form of a tax professor...my Queen of Wisdom, of Rightful, Respectable Adoration, and about as strong plutonic can be: a Sacred Place for me, The Mother of my Mind and Spirit (who taught me how to read, and to write, of a Act, and facts 'meeting it', right from Her start)...of my moral disposition.

[https://www.youtube.com/watch?v=6jG8qcnicKI&list=RD6jG8qcnicKI&start\\_radio=1](https://www.youtube.com/watch?v=6jG8qcnicKI&list=RD6jG8qcnicKI&start_radio=1) When I had nothing, She gave it to me thru my inadvertant need and dedication to please Her - and I HOPE there's only one way to win a towering lawyer's heart: develope your mind - the 'Pure Addiction. [As my 'questions' she implicitly performed A+'s on I remember thinking, I'll do ANYTHING for her chuckles!, hoping She'd find me in Her Law Library whispering shyly to myself HERE I AM! like 'Amy Farrah Fowler of TBBT fame, writing, HER, two such good books NO ONE will hold a light to

them. ...darn joke, what else was I to do..with what I had? I was 'deemed to be in That Library'...took me a year and a half to figure out I was LOST there too! ...maybe I still am eh.... ...errr... ok!!!?  
[https://www.youtube.com/watch?v=nRx-kk\\_opiI](https://www.youtube.com/watch?v=nRx-kk_opiI) ...if I could take Your smile and chuckle [and obviously brains and accomplishments because], and go global...?  
[https://www.youtube.com/watch?v=xdD\\_P3s2wBw&list=RDxdD\\_P3s2wBw&start\\_radio=1](https://www.youtube.com/watch?v=xdD_P3s2wBw&list=RDxdD_P3s2wBw&start_radio=1)  
<https://www.youtube.com/watch?v=Y0pdQU87dc8> ] That, has lasted my life-time. As I too worked hard with what I had, and accomplished too with same. ...  
[https://www.youtube.com/watch?v=Y0pdQU87dc8&list=RDY0pdQU87dc8&start\\_radio=1](https://www.youtube.com/watch?v=Y0pdQU87dc8&list=RDY0pdQU87dc8&start_radio=1) The Lady chuckled at my one-liner when I was sincerely interested in getting to know her (I projected out she'd be a Great lawyer, a lot of people go on to do that, when I wanted to be one, so, follow the Best you see: and, I'm very detailed. How do you like my books on tax jurisprudence?  
<https://www.youtube.com/watch?v=BRYqNfHcJsE> , so ya, She walks like an Egyptian... That respect prevailed towards all those who taught me all the way thru Concordia U. ): I took my chance and worked, and lived a good life, fighting the Good fight, appreciating its beauty in peace at the end of all the strife I've lived. <https://www.youtube.com/watch?v=f7131IkiSCg> For us All. But, it all started with Her. <https://www.youtube.com/watch?v=HKh6XxYbbIc> Because when that's all you have, that's an awful lot. That's how you advocate for the community spirit and principles of your deceased parents - while honouring them (loyally settled in gratitude, where it all started and witnesses to my early life), survive on practically no money, truly be involved on best relations with practically everyone, forgive debt (your last 'money', to help that girlfriend/mortgagee), and ...share half an egg. <https://www.youtube.com/watch?v=RRLrKR6pOA8> We are all, but feathers on the breath of God. Everyone can be a reptile: you compelled me to be a mammal Kim...but I'm just so so tired. [When you go to study at a Cdn University, you're there to STUDY - you're not there to make your clique chuckle w/ your smart-ass insulence, only to LEARN, to improve your MIND - TO CONTRIBUTE, TO YOUR WHOLE SOCIETY and ADVANCE KNOWLEDGE (but what do I know eh, having had TWO books on advanced commonwealth tax case analysis after 6 yrs in E. Cdn best law libraries, AS I WAS FINISHING a mere BComm in Accountancy, accepted in two law faculty libraries, for Kim, as always) - so while you may not have the resources or brain-power to 'be the best', you do tend to try to admire and respect your professors, remembering their syllables, hoping they'll remember you and you'll always have their basic guidance as you professionally mature. You're there to acquire maturity - by honestly immersing yourself in the milieu, as maturely as you can - w/out resentment/tongue-in-cheek or mere mouth honour (or worse). They're a COSMOPOLITAN 'World' where you meet and exchange thought on broad classes of issues with those from all parts of the World, not just those local. All true universities are. Concordia U. in Accounting was/is a GREAT university for that: it has no law program, let alone tax. Yet. Soon?  
<https://www.youtube.com/watch?v=oQ0oImqUZ4c> ] And that guided me, since 1987, to try to fill the World w/ love (except for '93-'95), giving a 61 yr-old's worn out polluted body. I tried to document it, all along, as always. I left my mark, as fleeting emotive memories are the last to fade w/ a mental illness: strong bi-polarity from caring too much. <https://www.youtube.com/watch?v=MIVl6gkqRxU> This case compilation, meant to be d/loaded as merely a stepping stone to get you INTO as a mere intro to the case-stream, was put together in 2016. The law has evolved onwards, so use CANLII.org to acquaint yourself accordingly. Income tax is a cost of doing business in Canada. is a phrase I remember so well, from an accounting prof as she taught me the liability side of our Balance Sheet, a pro. [And you can ask Harris if there's almost ALWAYS an accrued tax liability, tho, maybe the NDP can try and still 'collect it' eh? I haven't forgot a thing about 'Concordia'.]  
<https://www.youtube.com/watch?v=KVl5kMXz1vA> I have thought all along that I was brought into my existence to honour and adore you - from what I perceived in you in 1987, to what you did through your life! All of you: my pillars of intergity and discipline. Probably to what you'll do to the end of it Kim: a STANDARD that I never saw again! You've been the most satisfying of Dreams! End of my day (and days) always aimed for that since nothing compares to you. And I now know that I'll probably never see you again, and I wouldn't recognize myself anyway: I brought back the World, not just

some puny flash-in-the-pan gang. And you and your like have been the mastheads of my ships. On my LinkedIn I note that I abide by law, not business goals, because of you all that I met at Concordia U., as I spent so much time in your Libraries and ors.

[https://www.youtube.com/watch?v=N0tOm2mjWAw&list=RDN0tOm2mjWAw&start\\_radio=1](https://www.youtube.com/watch?v=N0tOm2mjWAw&list=RDN0tOm2mjWAw&start_radio=1) ...this gurl ain't no lawyer, just a singer looking for some bucks...!

[https://www.youtube.com/watch?v=Zs3pIvHhUq8&list=RDZs3pIvHhUq8&start\\_radio=1](https://www.youtube.com/watch?v=Zs3pIvHhUq8&list=RDZs3pIvHhUq8&start_radio=1) (I wonder if Madonna would cheapen herself to unethically disenfranchise the US Treasury through an artificial tax argument, like Sting once did to the Cdn? Because the attitude and taste can be popularly attractive to those who don't have, What do you truly do with your money and the US IRC?)

[https://www.youtube.com/watch?v=yWcGtLbLBxs&list=RDyWcGtLbLBxs&start\\_radio=1](https://www.youtube.com/watch?v=yWcGtLbLBxs&list=RDyWcGtLbLBxs&start_radio=1) Anti-fraud Professional, Proud, with the same accomplished smile (not grin), 38 yrs later. Yes, little did we know, that I take care of the promoters too....the whole slew.

[https://books.google.ca/books/about?id=z\\_fZEAAAQBAJ&redir\\_esc=y](https://books.google.ca/books/about?id=z_fZEAAAQBAJ&redir_esc=y)

[https://books.google.ca/books?id=crfSEAAAQBAJ&printsec=frontcover&source=gbs\\_ge\\_summary\\_r&cad=0#v=onepage&q&f=false](https://books.google.ca/books?id=crfSEAAAQBAJ&printsec=frontcover&source=gbs_ge_summary_r&cad=0#v=onepage&q&f=false) I only know lines, where things meet - how parties actions were as they interacted: that's what I've studied since 1987...

[https://www.youtube.com/watch?v=\\_BlBA590sE](https://www.youtube.com/watch?v=_BlBA590sE) though now I'm practically irrelevant, a bundle of known memories. [But, a line is a series of dots, and a dot can be an atom, with its characteristic electron elasticity, as you live in the pipe of a series of dots, intuitively sensing its 'ceilings and floors', curved or straight, ...as I first started getting up at 4:00 AM to redo calculus quizzes, before I met Kim, though 'back at school TO be a lawyer! this time!' (...when you don't know what one iz!). ~

~ ~ 239 (1) Every person who has (a) made, or participated in, assented to or acquiesced in the making of, false or deceptive statements in a return, certificate, statement or answer filed or made as required by or under this Act or a regulation, (b) to evade payment of a tax imposed by this Act, destroyed, altered, mutilated, secreted or otherwise disposed of the records or books of account of a taxpayer, (c) made, or assented to or acquiesced in the making of, false or deceptive entries, or omitted, or assented to or acquiesced in the omission, to enter a material particular, in records or books of account of a taxpayer, (d) wilfully, in any manner, evaded or attempted to evade compliance with this Act or payment of taxes imposed by this Act, or (e) conspired with any person to commit an offence described in paragraphs 239(1)(a) to 239(1)(d), ~ ~ ~ ...yes Kim and your Al Capone, he did go to jail for tax evasion. THERE ARE QUITE A FEW WHO GET CHARGED AND CONVICTED: YOU CAN LOOK THEM UP ON CANLII.org - like anyone!

<https://www.youtube.com/watch?v=EoA6HqLai-Q> ...but OUR law talks about co-conspirators too.

And maybe we all need more R. vs. eBay and its progeny. 2008 FCA 141 More auditors and fines do pay for a lot - collecting \$38.12 or Bentleys AND leveraged, tasteless, sheds, tho what can our population sustain? Maybe our population needs to be clamped down on, as the little guys are always, ALWAYS, looking for their little loop-holes, but in the arena of our tax law, of YES or NO, only, who is more guilty and a contributor, he who offers or he who assents to or acquiesces?

Bookkeepers swim in a sea of small business tax cheats out there (that's why I finally got back to picking up the CFE, for Cda), and that's where a vast amount of unsophisticated tax evasion occurs, since NO ONE wants to simply PAY THEIR, so called, DAMN TAXES, ridiculing those who have their own discipline to not cheat the Tax Man and sacrifice to NOT do it. But, you don't grow your country, any country, CHEATING its tax system!! REMEMBER THAT! BUT, I once wrote a bunch of books on tax law, and this is the one I put together on Collection / Enforcement / Prosecution. Just in case people didn't think I didn't know how, but never worked for the CRA as an employee. Grow a brain, discipline it to want more and add to it while you can, then maybe try your hand at adding to the milieu w/ your own: maybe yours will encompass the evolving, thankfully growing spirit thereof in your time too. Kim got me to study tax law, I merely got to make it my life-long study.

<https://www.youtube.com/watch?v=s1gr3KGxUjc> Kim Neufeld, CA only was a Sessional Tax I Professor in 1987 when I took her class, wanting to be a lawyer too. She moved on from it in her professional life, I stuck w/ it and focused perhaps too much wanting to specialize in tax, thus the

reason to spend 5-6 yrs cloistered in Cda's Eastern Law and or. Libraries, where ideas meet, in front of Judges. I learned a lot there. And then I met Larry Jacobson teaching Professional Tax at Concordia, last class (Ya Kim, I'm 'that guy' who stuck around. I grew highly addicted to 'your magic'...that's my 'personal mortgage' to you: owed into perpetuity. An Ode to a Very Very Particular 'Law' Professor: who gave me a SPECTACULAR honest hard-working life...and got me to 'pay my dues, early'. ) This is why you shouldn't argue and BE PATRIOTIC as a bookkeeper/client/business-man: if you prosper, contribute! THE MONEY HAS TO COME FROM SOMEWHERE!!! <https://www.youtube.com/watch?v=pdNRNDrgKTE> (In my idealist World there's hardly any 'what's mine is mine: what's yours is yours': I don't like hogs or extreme capitalism - just contributions to everyone else.) I could just as easily show you vids on our health care system, since we do have to pay for that: In fact, why don't you inform yourself by looking up some shorts on Youtube. But sorry, We tax the wine too!...better than poisoning yourself operating a basement coke-bottle still... It was Kim who set me off on this path of, God knows, World.... YOU TOO, GET TO HELP BUILD A COUNTRY! As advised by the Person at the Podium: you're just as important as they are, but they have far broader responsibilities... You have a far more narrow scope of responsibilities: work if you can w/out mental/physical disability, don't break the laws of the country to draw our resources in our courts and prison, and pay YOUR TAXES: that's all, NOTHING compared to an elected official carrying the yoke of a public office. In other words, be a simpler consuming constructive citizen. So, don't complain about the quality of the wood or the size of the nails...just get busy. Since IT IS The Best Deal In Your Life, for what others, professionally and legally compliant and caring, use it to Your Benefit! [I once spent the better focus of my life in the taxation of trusts and estate planning, heard the phrase where there's a will there's a way. Have you? BTW, that got me pretty far. Where can your will lead you!? [IF YOU SPENT AS MUCH TIME SCHEMING TO NOT PAY TAX ON ACTUALLY MAKING THE MONEY JUST IMAGINE WHERE YOU'D BE, eh?]] Keep applying, your thoughts and 'keep your stick on the ice'.]

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<https://www.youtube.com/watch?v=IsoqRvYqWDg> After all, do you like the condition of this country? Its homeless camps, its food programs, its small business environment, its entrepreneurial environment, its academic environment, its EFFICIENCY and its TRADE w/ The World, its VERY HUMANITY? We have great dreams in Canada: and we can systematically work towards realizing them, individually, jointly, or en masse. BUT, the government NEEDS its money - BECAUSE IT'S - ALL OF US - OUR MONEY! Would you stop a purse-snatcher, NOT house a wild-fire victim when you could, NOT respect law enforcement when responding, NOT CONTRIBUTE when it would be such a great warming experience, for everyone? PAY YOUR TAXES! It's a MORAL OBLIGATION! On each and every one of us! Complain all you want about what they do with it - THERE ARE PLENTY OF CHECKS AND BALANCES on that - BUT THE SYSTEM WORKS. Do YOU manage YOUR resources as well!? [https://www.youtube.com/watch?v=sSN\\_MSiqsM](https://www.youtube.com/watch?v=sSN_MSiqsM) So please don't grow cynical: just CONTRIBUTE, HONESTLY. AND, BE PROUD OF IT. There is no Limitations on tax evasion - it's an indictable: it's a CC offence and it's a very slippery slope when you start, and you don't want to be looking back 10 years, etc. when a junior investigator gets the bit between his teeth in your life, and they have all the time in their World and resources to do it: THEIR CALLING, honing it all along thru experienced supervision! As I have myself seen spoken, the CRA can tell you how much sliced bread costs, in Nova Scotia - we have the best databases in the country. Better not lie to him (now I know why he was smiling so much) - and net worth assessments can be acute - down to \$100.

<https://www.youtube.com/watch?v=zLiA4SM3LEY> <https://www.youtube.com/watch?v=rY0WxgSXdEE>

<https://www.youtube.com/watch?v=cyZdgmBzguk> This tome of case compilation was meant for you to read, thoroughly, and Yes, I did read them, like you should too: there are no short-cuts to developing your mind. KNOW THE LAW! And follow it! Since in your hands money, individually, is, while rare and squeezed, it's much more useful to the experts who enact and administer our laws. Our ITA law has moved on from this, thankfully CRA's ability to collect has been honed to high finesse to ferret out tax cheats/advisors. Perhaps it's just a question now of having more acute collection capacity/technique, court capacity and jails, since why so many...Why So Few!!? I've seen my share of tax cheats and larger fraud artists in my life: when do we all say ENOUGH IS ENOUGH, and collect! WITHOUT a glitter in our eyes...since there's only ever One truth, with all its contributing attendant reason: it's OUR money too! I was noting on LinkedIn a populace website the other day that someone was criticizing the CRA for sending out a FORM 3812 collection letter. Everyone 'jumped on and laughed' unfortunately. No one commented about when that same process spending that same stamp and envelope sends out a demand letter for \$480,000 or \$3,800,000 'coz then you know you've garnered the attention of The Whole Glory of Our Processes and - Our - Teams. And this is why this book is about collection etc thereof. It was composed a long time ago, but its principles, its processes and committed people remain the same: Thankfully for us all. Not much gets by the CRA: we rely on them for the collection of our funding, so why cheapen yourself, needing it all, when your parents didn't bring you into this World to NOT contribute if you could, legally, and you have a great chance to be a simple warmly-hearted philanthropist: legal and settled? Tax evasion is ILLICIT! It's A LIE you're perpetrating on the World and it cheapens you - you're CHEATING the application of the King's statute/regs to YOURSELF and your OBLIGATIONS to those who don't (how would you like it if EVERYONE, everyone, did that to you? - just like you would stealing a purse or running a traffic signal, thinking You're more important and the law doesn't apply.): like your first tasting of an environment that you think you can handle as EVERYONE is telling you to NOT! I've met MANY who think they can stop some day, but they become addicted: after all A little pinch here won't hurt? when it's THEFT, on EVERYONE! And the line is fine, but don't go near it, since I have met enough who can't control themselves. [That all leads to an underground economy and more illegalities 'once that ball gets rolling'. Wanta go there? For yourself and your fellow stranger? 'Neighbour'?] After all, would you LIE to your parents when they know or could investigate your dealings like the back of their hand? YOU'D BE STUPID TO as they too were sent into the World like lambs amongst the wolves and had to grow to having YOU!!! ...You were born in a hospital in Cda and had your care - at least one time in your Cdn life - taken care of there, like your parents - or, would you disrespect them too/your family's pedigree/name - where do you think that ALL comes from!!!!? The NEED to avoid taxes thru GAAR-sanctionable planning, or straight-out evasion is because you're driving your car too fast in effort to get There outside the norms of the rules. If you were to take your foot off the gas and respect the rules you would/could get there, thru discipline/restricted need, more surely, without causing mishap to yourself and, thru the full measure of s. 239(1), at least someone else, damageless, and feeling relieved you made it another day in a World where you have to drive for everyone else too. And able to sleep at night. In each case you read herein you have to ask yourself, WHY DID THEY DO THAT!!? WERE THEY THAT SO DESPERATE FOR SOMEONE ELSE'S MONEY ILLEGALLY OBTAINED thru AVOIDANCE PLANNING THAT THEY HAD TO CONNIVE THEMSELVES TO SUCH A LENGTH!? And that's the tragedy: the NEED for more, faster, better BEYOND your means to obtain it legally. That's my pulpit, my religion: it's secular and you can march straight into any court in this country with it and have a truly, nationally-minded, LEARNED judge accept it, and it came from respecting far smarter people than I made their careers on it, treasuring the paths they made to follow. Whose commitment BUILT ... everything around you, appeasing thru consensus all those who would be affected, including as a footnote, a spec, you.

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truth also. In our lives of law, order, and good government.

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<https://www.youtube.com/watch?v=kD1ruD7-2-I&list=RDOOmoRkLonRE&index=10> ...of 'forbidden love', forever there, law libraries, and tax. <https://www.youtube.com/watch?v=7xvGX64Nvn4>

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[https://www.youtube.com/watch?v=w9LkmS-6W0A&list=RDw9LkmS-6W0A&start\\_radio=1](https://www.youtube.com/watch?v=w9LkmS-6W0A&list=RDw9LkmS-6W0A&start_radio=1) Yes Miss Neufeld CA of 1987, imagine that... You Kim.

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**eta cpp: Understanding International Counter Terrorism** Axel Hunsicker, 2006  
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