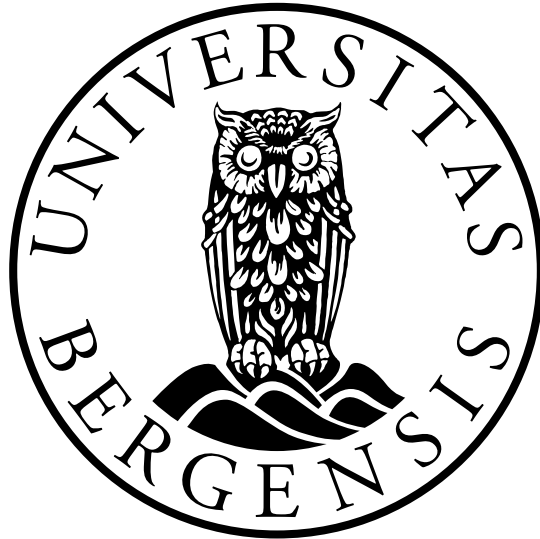


UNIVERSITY OF BERGEN



Department of Information Science and Media Studies

MASTERS THESIS

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# **Some method for verifiable reproducibility**

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*Supervisor: Andreas Lothe Opdahl*

January 7, 2019

*Any negative polls are fake news, just like the CNN, ABC, NBC polls in the election.  
Sorry, people want border security and extreme vetting.*

Donald Trump

# **Abstract**

Here you give a summary of your your work and your results. This is like a management summary and should be written in a clear and easy language, without many difficult terms and without abbreviations. Everything you present here must be treated in more detail in the main report. You should not give any references to the report in the summary – just explain what you have done and what you have found out. The Summary and Conclusions should be no more than two pages.



# Acknowledgment

I would like to thank the following persons for their great help during ...

If the project has been carried out in cooperation with an external partner (e.g., a company), you should acknowledge the contribution and give thanks to the involved persons.

You should also acknowledge the contributions made by your supervisor(s).

O.N.

(Your initials)



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# **Chapter 1**

## **Introduction**



## **Chapter 2**

### **Research Overview**

#### **2.1 Contour**

#### **2.2 Cothority**

#### **2.3 Benjamin**



## Chapter 3

### Theory

In this section we will take a closer look at the theory surrounding supply chains and reproducible builds. Somethingsomething test

## **3.1 Supply Chains**

### **The Supply Chain**

#### **Artifacts**

#### **Verification**

#### **in-toto**

#### **Certificate transparency log**

## **3.2 Reproducible Builds**

### **Determinism**

### **Source Date Epoch**

### **Buildinfo**

## **3.3 Linux Distributions**

### **History of Linux**

### **Debian**

### **Arch Linux**

## **3.4 Rebuilders**





## **Chapter 4**

### **Methodology**



## **Chapter 5**

# **Development**

### **5.1 APT Transport**

### **5.2 Rebuilders**

### **5.3 Visualizer**



## **Chapter 6**

# **Reproducible Builds Summit 2018**

In december of 2018...

### **6.1 Session 1**

### **6.2 Session 2**

### **6.3 Session 3**



## **Chapter 7**

### **Discussion**





## **Chapter 8**

## **Conclusion**

