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Digital Locks, Real Freedoms: Technological Protection Measures in Bill C-32

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Digital Locks, Real Freedoms

Technological Protection Measures

in Bill C-32

Dr. Thomas Margoni

Bill C-32

1) What it says

(brief analysis)

- 2) Why it says that (international obligations or US deference?)
- 3) Could have said something different?

(what international agreements require)

4) Alternatives

(Free Licences)

1. Some definitions

TPM — Technological Protection Measures

RMI — Rights Management Information

DRM -- Digital Rights Management

TC — Trusted Computing

TPM

any effective technology, device or component that, in the ordinary course of its operation:

a) controls access to a work ...

or

b) restricts the doing of any act referred to in sec. 3, 15, 18, 19 (which means to produce, reproduce, perform or publish any translation of the work, etc. etc.)

What is prohibited

"to circumvent access control TPMs (a), even if the work subject to the TPM is legally acquired.

Important difference between access control (access to the work itself) and copy control (copying the work)

Is circumvention of copy-control TPM legitimate?

Plain meaning of the bill suggests yes...

HOWEVER

Without access there is no technical possibility of making a copy...

Circumvention

a) to descramble a scrambled work or decrypt an encrypted work or to otherwise avoid, bypass, remove, deactivate or impair the technological protection measure, unless it is done with the authority of the copyright owner;

b) to avoid, bypass, remove, deactivate or impair the technological protection measure.

Copy Control TPM (and access control TPM)

Prohibited:

distribution, marketing, manufacture, importation, offer for sale or rental, of devices, technologies or components, such as software, that can be used to circumvent TPMs [no distinction, so arguably a) + b)]

RMI

Information that:

(a) is attached to a copy of a work,

AND

(b) identifies or permits the identification of the work or its author, or concerns the terms or conditions of the work's use

RMI

what is prohibited

removal or alteration of rights management information, if the person doing such acts knows that the removal or alteration will facilitate or conceal any infringement of copyright, or adversely affect a copyright owner's right to remuneration

DRM

"Digital rights management (DRM) is a term for access/copy control technologies that can be used by hardware manufacturers, publishers, copyright holders and individuals to limit the usage of digital content and devices"

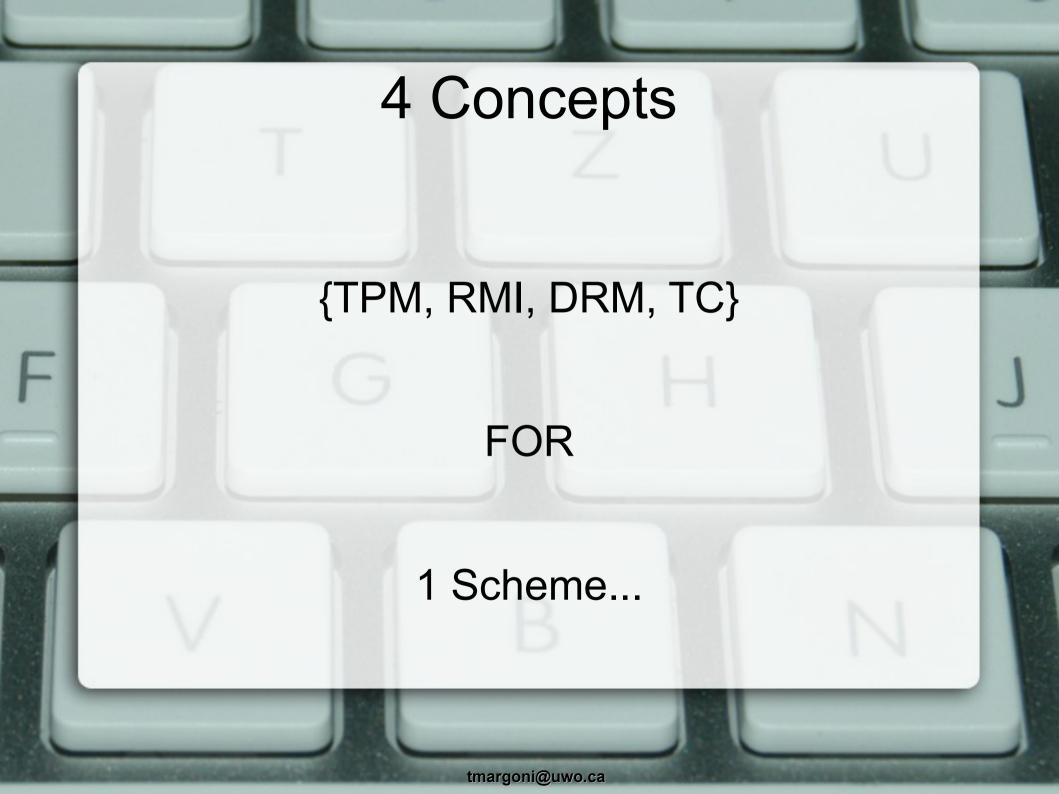
From: www.wikipedia.org

TC

"With Trusted Computing, the computer will consistently behave in expected ways, and those behaviors will be enforced by hardware and software"

"The main functionality of TC is to allow someone else to verify that only authorized code runs on a system. This authorization covers initial booting and kernel and may also cover applications and various scripts"

From: www.wikipedia.org



The control of information

Work (perhaps)

RMI (which rights)

TPM

Technological enforcement of rights

DRM (TPM + RMI) Bill C-32 Legal Enforcement of DRM







Performance



Presentation



Identity

General Options



Appearance

- Show scroll<u>b</u>ars
- Link the thumbnails with the page
- Show hints and info messages

Program Features

- Obey DRM limitations
- Reload document on file change
- Show backend selection dialog

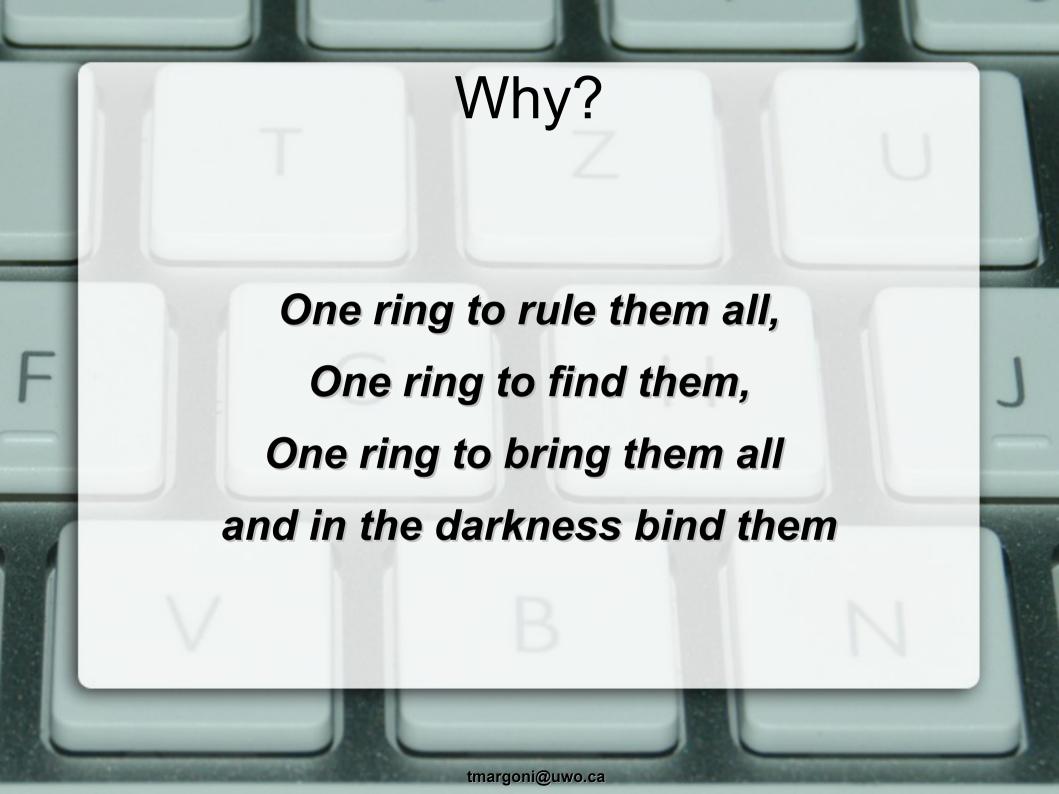
View Options



Work (perhaps)

Trusted Computing (hardware enforcement of rights rules

(TPM + RMI)



Start thinking that I am paranoid?

Maybe... but before reaching a final judgment have a look at this:

Stefik, M., Shifting the possible: how digital property rights challenge us to rethink digital publishing, Berkeley

Technology Law Journal. 1997; 12 (1): 137-159. (BTW, Stefik was Principal Scientist at Xerox)

Privatization of Justice

Identification in the same person of:

- Creator of the rule
- Interpreter of the rule
- Enforcer of the rule
- Person who benefits from the rule

(modern legal theories, market and competitive economies, division of powers, check and balances, modern constitutionalism, enlightenment, Voltaire Montesquieu, participative democracy, etc. notwithstanding...

Bill C-32

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(Fair dealing and Free Licences)



 World Intellectual Property Organization (WIPO) Copyright Treaty (WCT) 1996

 WIPO Performances and Phonograms Treaty (WPPT) 1996

WCT

Art. 11:

"... provide <u>adequate</u> legal protection and <u>effective</u> legal remedies against the <u>circumvention</u> of effective technological measures that are used by authors in connection with the exercise of their rights ..."

WCT

Art. 12

- "... provide adequate and effective legal remedies against any person [who] knowingly ... induce, enable, facilitate or conceal an infringement rights:
- (i) to remove or alter any electronic rights management information ...; (ii) to distribute, import for distribution, broadcast or communicate to the public ... works or copies of works knowing that electronic rights management information has been removed or altered ..."

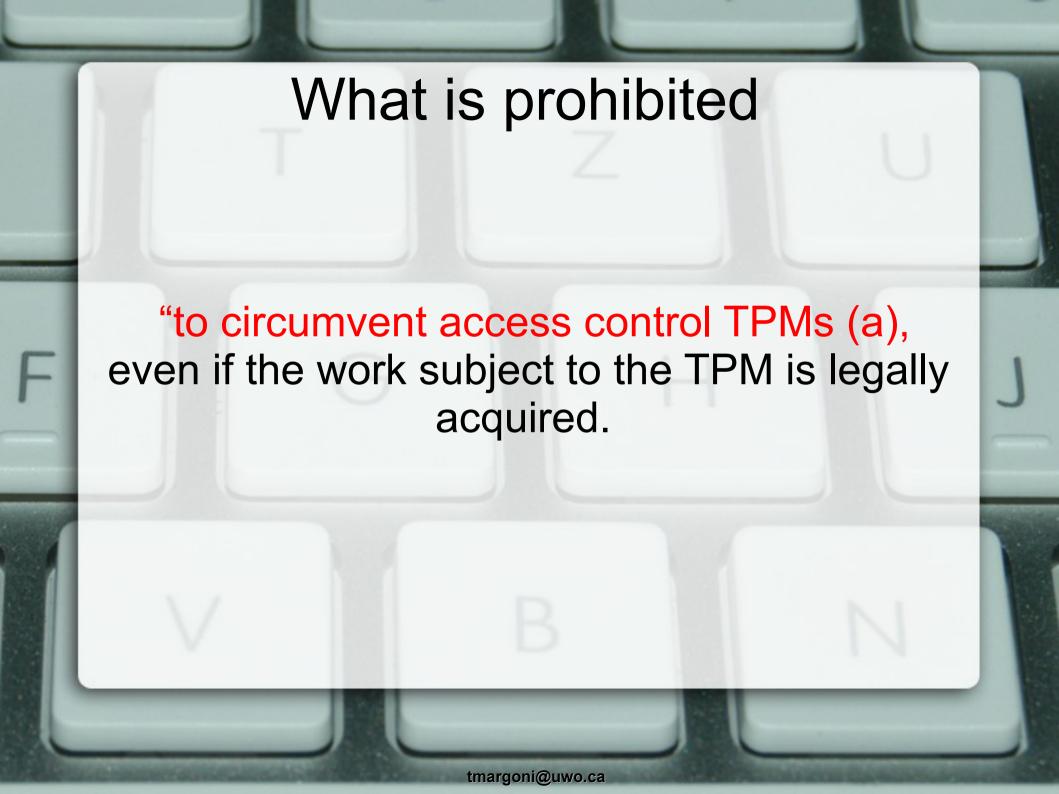
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Why it says that?

Bill C-32 wording on TPM is only partially connected to international obligations

Let's have a look at some other legislation... for example:

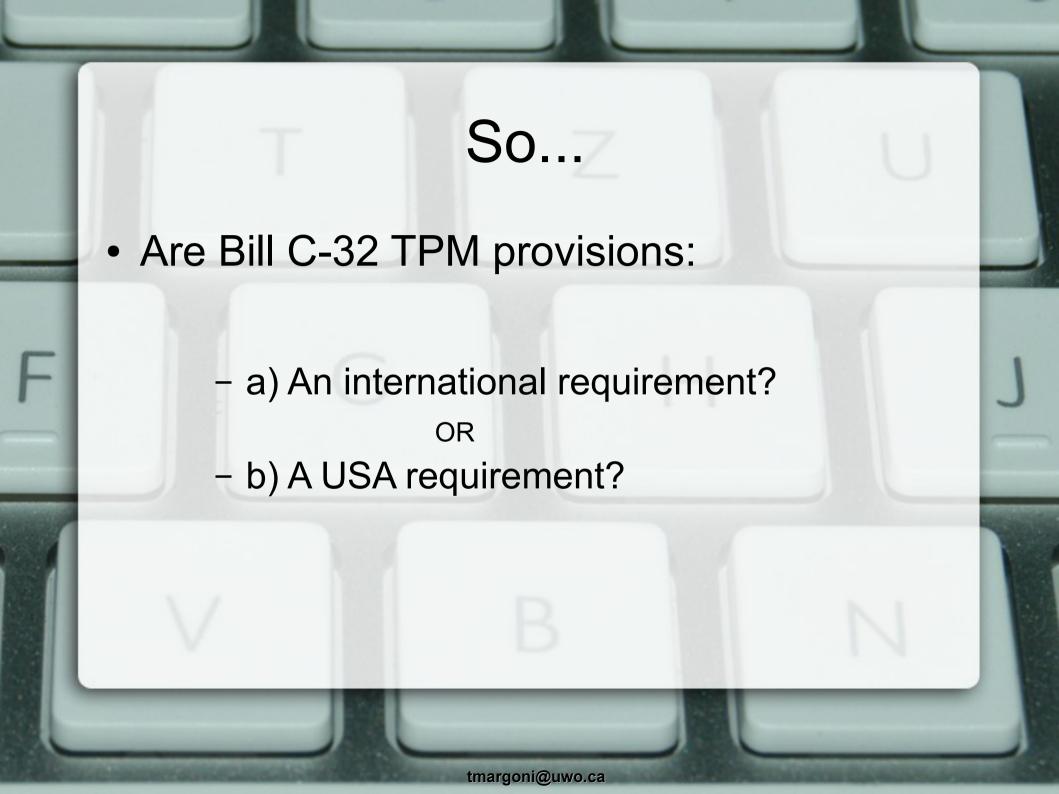
U.S. Digital Millennium Copyright Act, [Pub. L. 105-304, 1998]

DMCA

- Sec. 103 DMCA (17 U.S.C. Sec. 1201(a)(1):
- No person shall circumvent a technological measure that effectively controls access to a work protected under this title
- (b) No person shall manufacture, import, offer to the public, provide, or otherwise traffic in any technology, product, service, device, component, or part thereof, that ... is primarily designed or produced for the purpose of circumventing protection afforded by a technological measure that effectively protects a right of a copyright owner ...



- Defines Access control and Copy control TPM
- 2) Prohibits circumvention for access control
- 3) Prohibits production, manufacture and distribution of both access and copy control



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WCT

- Does not require distinction of copy and access control (No Access right!)
- Does not require limitations to Fair Dealing/Use or other Exceptions or Limitations to Copyright (ELC)
- Does not require limitation to use, production, manufacturing, importation, etc of devices or technologies

Examples

- Bill C-60 (fair dealing provision and no limitation on tools or devices)
- AUSFTA 2004 (WCT-plus provisions? Mandate to include use of circumventing devices)
- EUCD similar to DMCA but leaves to member states an open door... (so many have limited to actual copyright infringement or only to copyprotection, denying any "access-right"
- Japan (no access right and actual infringement)

ACTA?

- Anti Counterfeiting Trade Agreement
 - In consolidate text for public release 06
 Oct. 2010, in footnote 14 (...):
 - technological measure means any technology, device, or component that, in the normal course of its operation, is designed to prevent or restrict acts, in respect of works ... Without prejudice to the scope of copyright or related rights contained in a Party's law, technological measures shall be deemed effective where the use of protected works ... is controlled by authors ... through the application of a relevant access control or protection process, such as encryption or scrambling, or a copy control mechanism, which achieves the objective of protection.

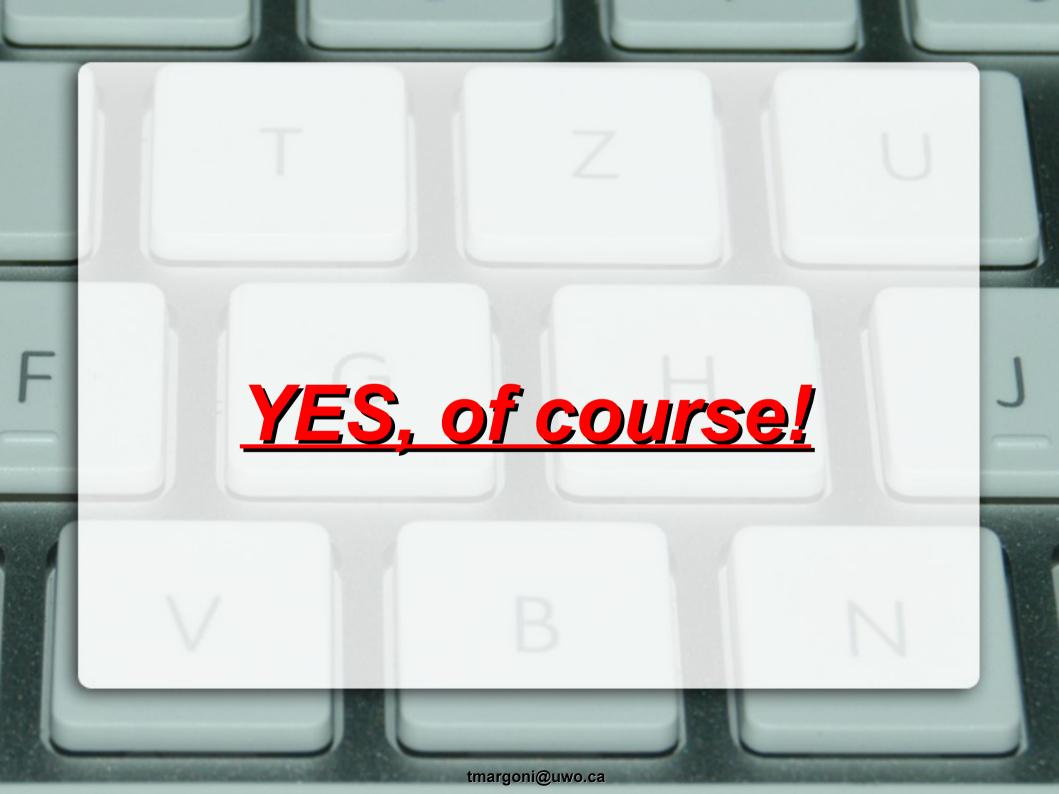
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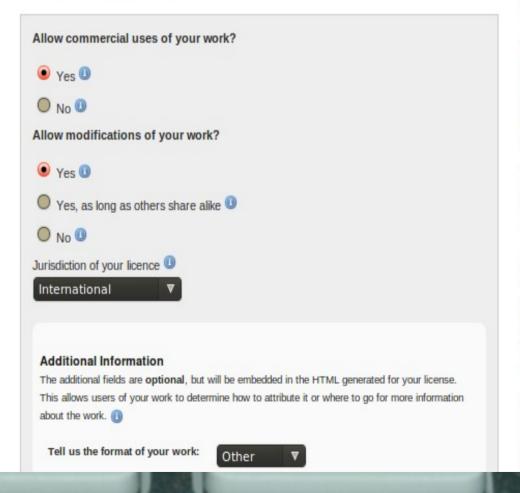
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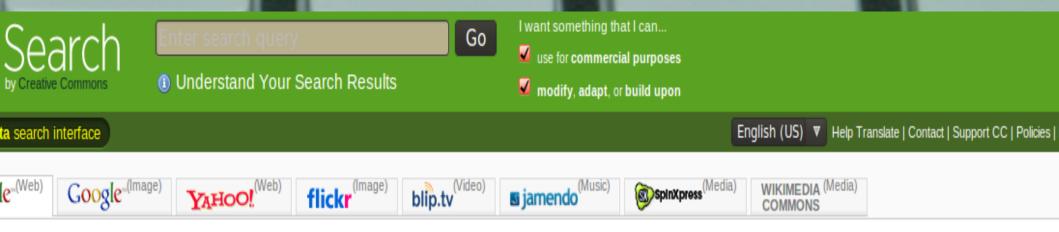
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- Distribute copies of the program (freedom 2)
- Improve the program and distribute the modifications (freedom 3)
- Pre-requisite: The source code availability ("the better form of the work in order to modify it, in a format which is publicly documented, without protection systems as password, etc")

GPLv3 and TPM?

- 3. Protecting Users' Legal Rights From Anti-Circumvention Law.
- No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

GPLv3 and TPM?

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That's all

Thank you for your attention!

Questions? tmargoni@uwo.ca

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