

THE LAW OF WAR IN CYBERSPACE

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Terminology:

The *Tallinn Manual* (2013) defines a **CYBER ATTACK** as “a cyber operation, whether offensive or defensive, that is reasonably expected to cause injury or death to persons or damage or destruction to objects.”

(1) *De minimus* damage/injury threshold;

“‘Attacks’ means acts of violence against the adversary, whether in offense or in defense (See *Additional Protocol I, Article 49.1*)

U.N Charter Article 2(4):

“All Members shall refrain in their international relations from the threat or **use of force** against the territorial integrity or political independence of any state, or in any other manner inconsistent with the Purposes of the United Nations.”

Article 51:

“Nothing in the present Charter shall impair the inherent right of individual or collective self-defense if an **armed attack** occurs against a Member of the United Nations, until the Security Council has taken measures necessary to maintain international peace and security.”

(2) “Any decision to employ force must rest upon the existence of a viable legal basis in **International law as well as in domestic law** (including application of the 1973 War Powers Resolution (WPR), Public Law 93-148, 50 U.S.C. §§ 1541-1548).” (See *Law of Armed Conflict (LOAC) Deskbook*, 2015) (p. 29).

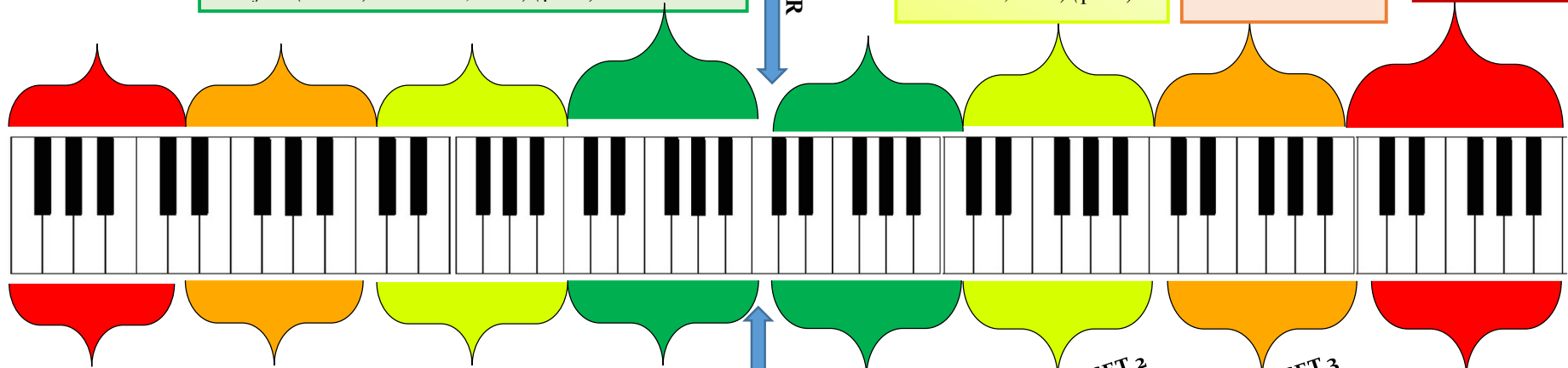
U.N. CHARTER

Anticipatory Self-Defense “justifies using force in anticipation of an **imminent armed attack.**” (See *LOAC Deskbook*, 2015) (p. 37).

Victim state’s response to kinetic attack launched by **non-state entity** – answer may rest on issues of state responsibility and ability to satisfy higher burden of proof to invoke a use of force in self-defense (See *LOAC Deskbook*, 2015) (p.39).

Cyber Intrusion – “(a cyber operation short of an attack) into another state’s cyber systems would not constitute a use of force, nor would it violate international law.” (See Gary D. Solis, *Cyber Warfare*, 219 Mil. L. Rev. 1, *15, (2012).

Preventative Self-Defense – employed to counter non-imminent threats is **illegal under international law.** (See *LOAC Deskbook*, 2015) (p. 39).



A **cyber attack** requires an “effort[] to alter, disrupt, or destroy computer systems or networks or the information or programs on them[.]” (Matthew Waxman, 36 YALE J. INT’L L. 421, 422 (2011). Next, if the act produces “death, damage, destruction or high level disruption,” it yields a **violent effect**. (See Gorman & Barnes, *Cyber Combat: Act of War*, WALL ST. J (May 31, 2011).

“MIDDLE C”

OCTAVE SET 1:
Permissible State
Action

OCTAVE SET 2
Likely Permissible
State Action

OCTAVE SET 3
‘Somewhat’
Permissible State
Action

OUT OF RANGE

According to USAF MAJ GEN. Charles Dunlap, Jr. JAG, (ret.) “**cyber attacks** that have a **violent effect** are the legal equivalent of armed attacks, or what the military calls a ‘use of force.’” In military parlance, “use of force” is regarded as an armed attack. (See Gorman & Barnes).

Thus, a theoretical equation for calculating a “Use of Force” in Cyberspace → Cyber attack(s) + Violent Effect(s) = Use of Force under Article 2(4)