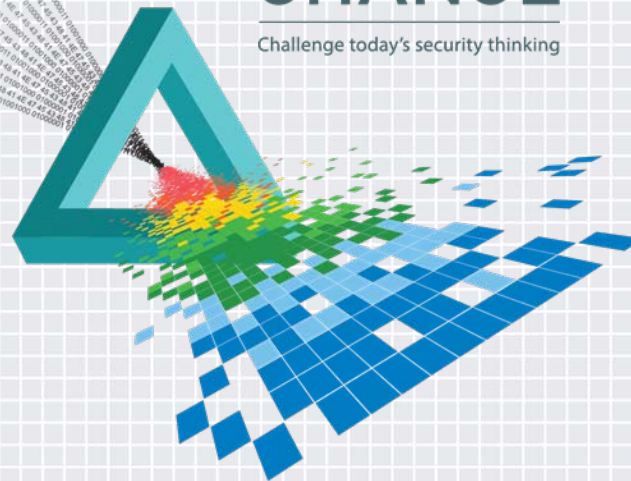


RSAC[®] Studio

CHANGE

Challenge today's security thinking

The Sound of Metrics: Using Musical Principles to Contextualize Security Events



David Scott

Chief, Software Development
CSG Invotas

@cannotbesilent / david.scott@csginvotas.com

“We Will ~~Rock~~ Block You”



My Instrument...



Photo Credit: Sharon Steele-Smith

A vibrant concert scene with purple and blue stage lights and a crowd of people with their hands raised. The text "Music and Security are Connected" is overlaid in the center.

Music and Security are Connected



PEOPLE



2 3 4 5 6 7 8 9 10 11 12 13 14 +



PATTERNS



Synth Bells



Interpret – Create – Perform

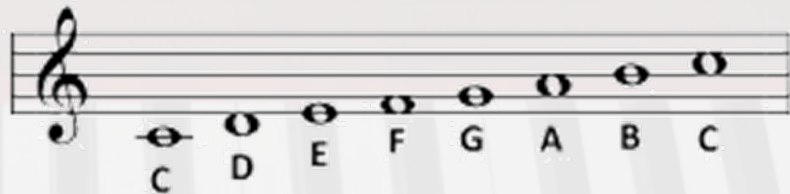
PRINCIPLES

Confidentiality – Integrity – Availability

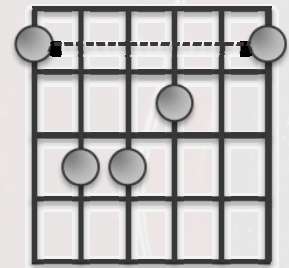


Facteur de Claviers et Orgues perfectionnés
et autres
Paris.

SCALES



CHORDS



SYMPHONY V

C Minor Opus 67

Ludwig van Beethoven

Allegro con brio $\text{♩} = 108$

1770-1827

Flauti

Oboi

Clarineti in B♭

Fagotti

Corni in E♭

Trombe in C

Timpani in C

MOTIF

Violino I

Violino II

Viola

Violoncello

Contrabbasso

2

Musical score for woodwinds and strings, page 2. Instruments include Flute (Fl.), Oboe (Ob.), Clarinet (Cl.), Bassoon (Fg.), Cor Anglais (Cor.), and Trumpet (Tr.). The score shows various dynamics such as *ff*, *p*, and *cresc.* across measures 10, 15, and 20.

A musical motif in 2/4 time, marked *ff*. The motif consists of a quarter note G4, a quarter note A4, a quarter note B4, a quarter rest, a quarter note C5, a quarter note B4, a quarter note A4, and a quarter note G4. The key signature is C minor.

Musical score for woodwinds and strings, page 2 (continued). Instruments include Oboe (Ob.), Clarinet (Cl.), Bassoon (Fg.), Cor Anglais (Cor.), Violin I (Vl. I), Violin II (Vl. II), Viola (Via.), Violoncello (Vic.), and Contrabbasso (e.Cb.). The score shows various dynamics such as *ff*, *p*, and *cresc.* across measures 25, 30, and 35.

Musical score for strings, page 2 (continued). Instruments include Cor Anglais (Cor.), Trumpet (Tr.), Timpani (Timp.), Violin I (Vl. I), Violin II (Vl. II), Viola (Via.), Violoncello (Vic.), and Contrabbasso (e.Cb.). The score shows various dynamics such as *ff*, *p*, and *cresc.* across measures 40, 45, and 50.

IMPROVISATION

Fungii Mama

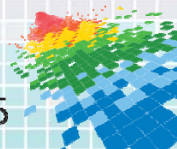
Music by Blue Mitchell

Chord progression for the first staff: F, (D7), Gm7, C7, F, (D7), Gm7, C7.

Chord progression for the second staff: F, F/A, Gm7, C7, F, Dm7, Gm7, C7, F, E7.

A Few More Comparisons...

Music	Security
Style	Event Analysis, Operational patterns
Instruments	Software
Volume	DoS attacks, Support Level Agreements
Rhythm	Attack patterns, Operational patterns
Timing	Response latency
Form & Analysis, Music History	Forensics



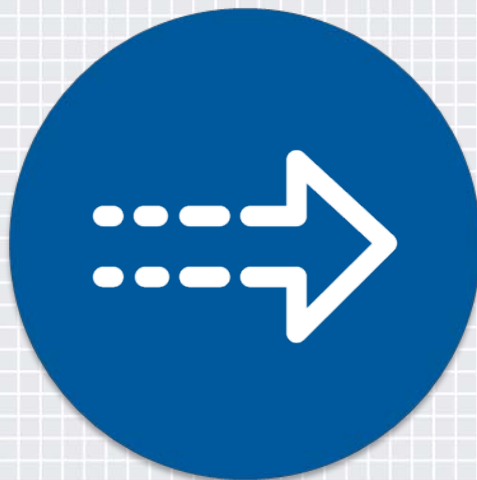


Now the Fun Starts

Consistent Creativity



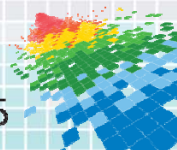
Break it down



Move it over



Twist it up



A wide-angle photograph of a sunset over the ocean. The sky is filled with soft, white and yellow clouds, with the sun low on the horizon, creating a bright orange glow. The water is a deep blue, and a small sailboat is visible in the distance on the right side.

Now What?

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david.scott@csginvotas.com

Twitter: [@cannotbesilent](https://twitter.com/cannotbesilent)

download “We will Block You” at
<http://invotas.cgi.com/sound-of-metrics>



 #RSAC