



Digital Tokens: A Candidate for Standardization

BALAJI RAJENDRAN

CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING

BANGALORE INDIA

Digital Tokens – all about it !

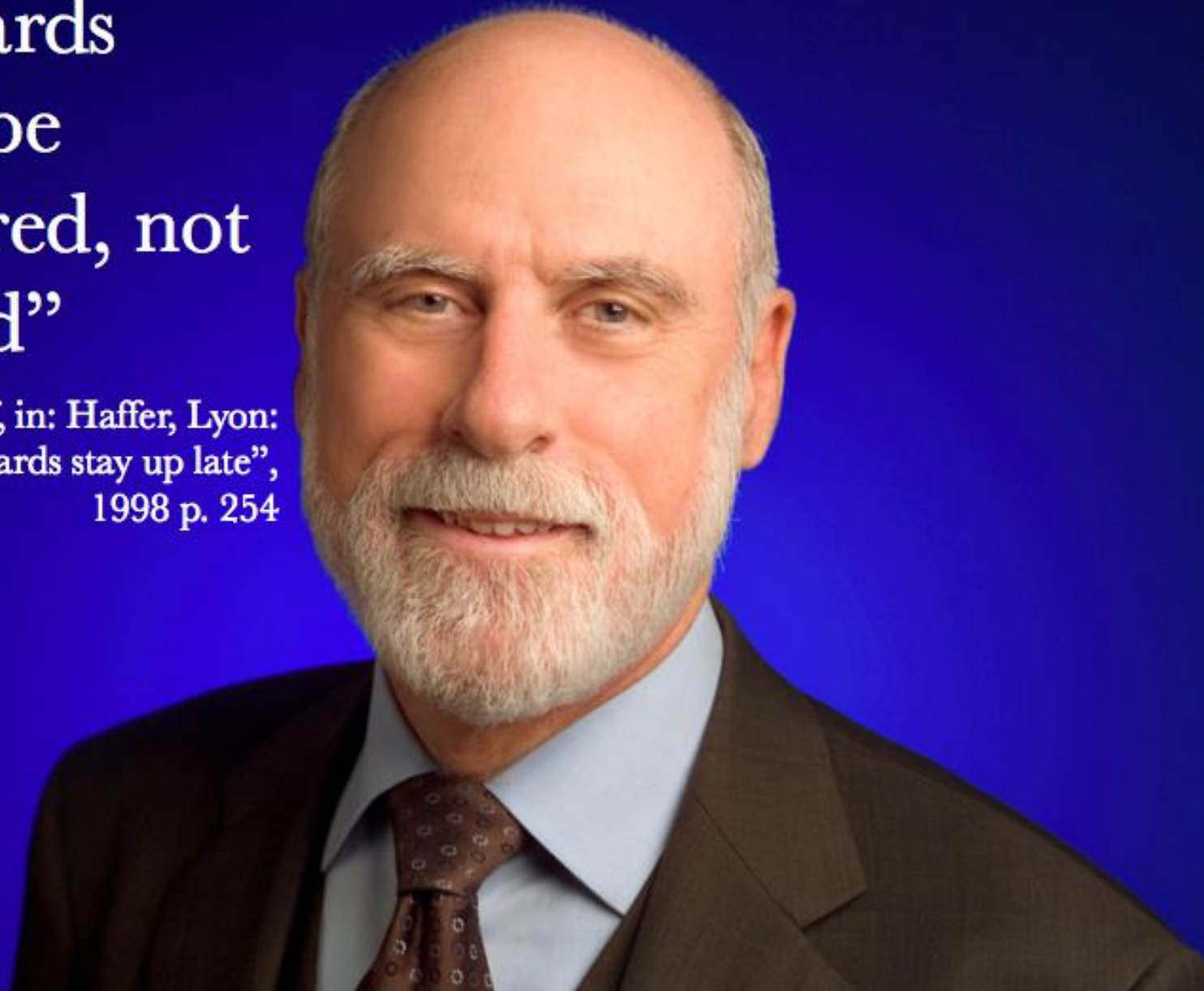
- ▶ What's it ?
 - ▶ A piece of code that serves as an instrument to access specified resources for a specified time by a specific entity.
- ▶ Where is it being used ?
 - ▶ Several WGs (oauth, ace, secevent, tokbind) already use it with variations to meet their respective objectives
- ▶ Are there formats ?
 - ▶ CBOR, and JWT are widely used formats for representing digital tokens

So what ?

- ▶ Define them as a (slightly) abstract concept, make them extensible and usable in different contexts and by many applications
 - ▶ (and of course ensure scalability! So that some one does not need a light-weight digital token 😊)
- ▶ Few Potential Use cases:
 - ▶ Reserving shared resources
 - ▶ Positional Tokens (Prevent XML Digital Signature Wrapping Attacks)
 - ▶ Transfer of value between entities (?)
- ▶ An uniform way to define and use will help everyone!
 - ▶ Developers to use and Users to Understand

“Standards
should be
discovered, not
invented”

Vincent Cerf, in: Haffer, Lyon:
“Where the Wizards stay up late”,
1998 p. 254





How about a BoF ?

THANKS!

BALAJIRAJENDRAN@GMAIL.COM