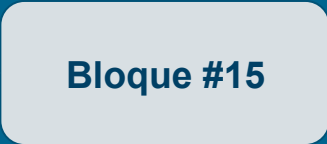
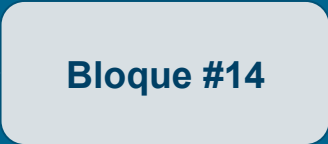
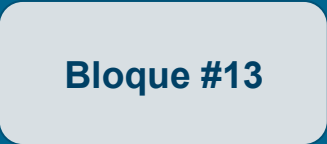
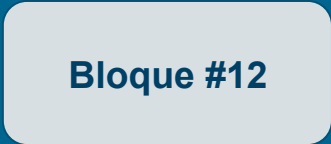


# Introducción a blockchain

SIGNATVRA



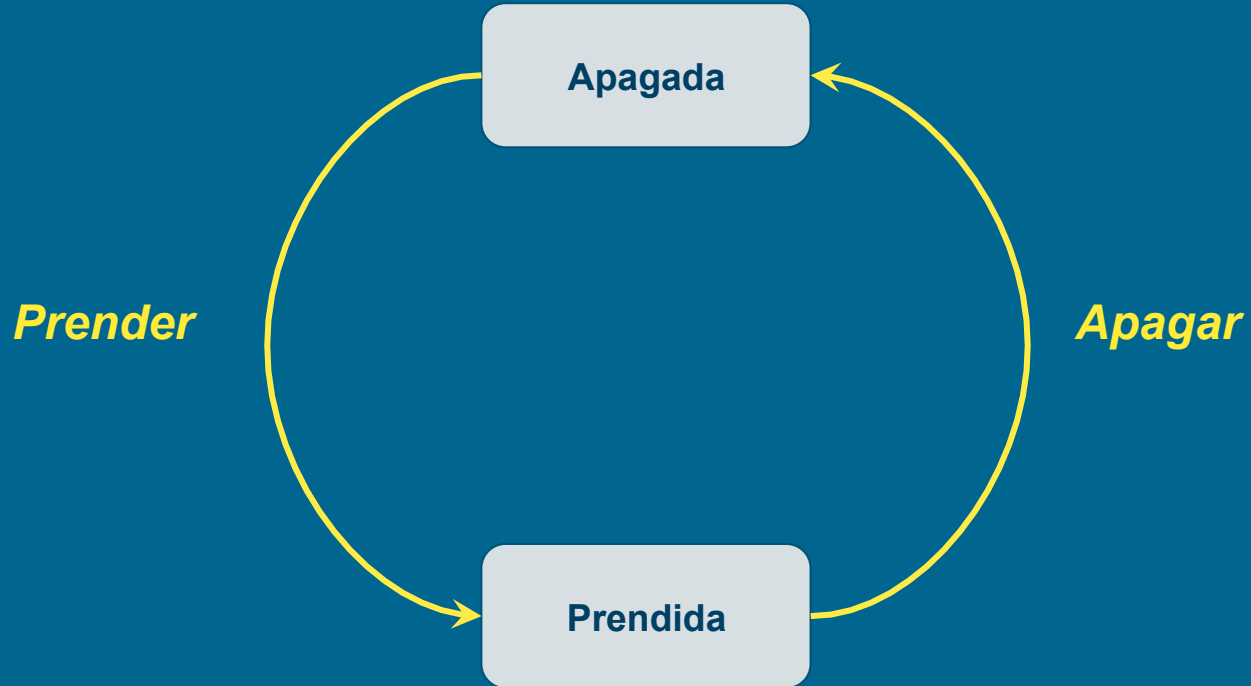
...



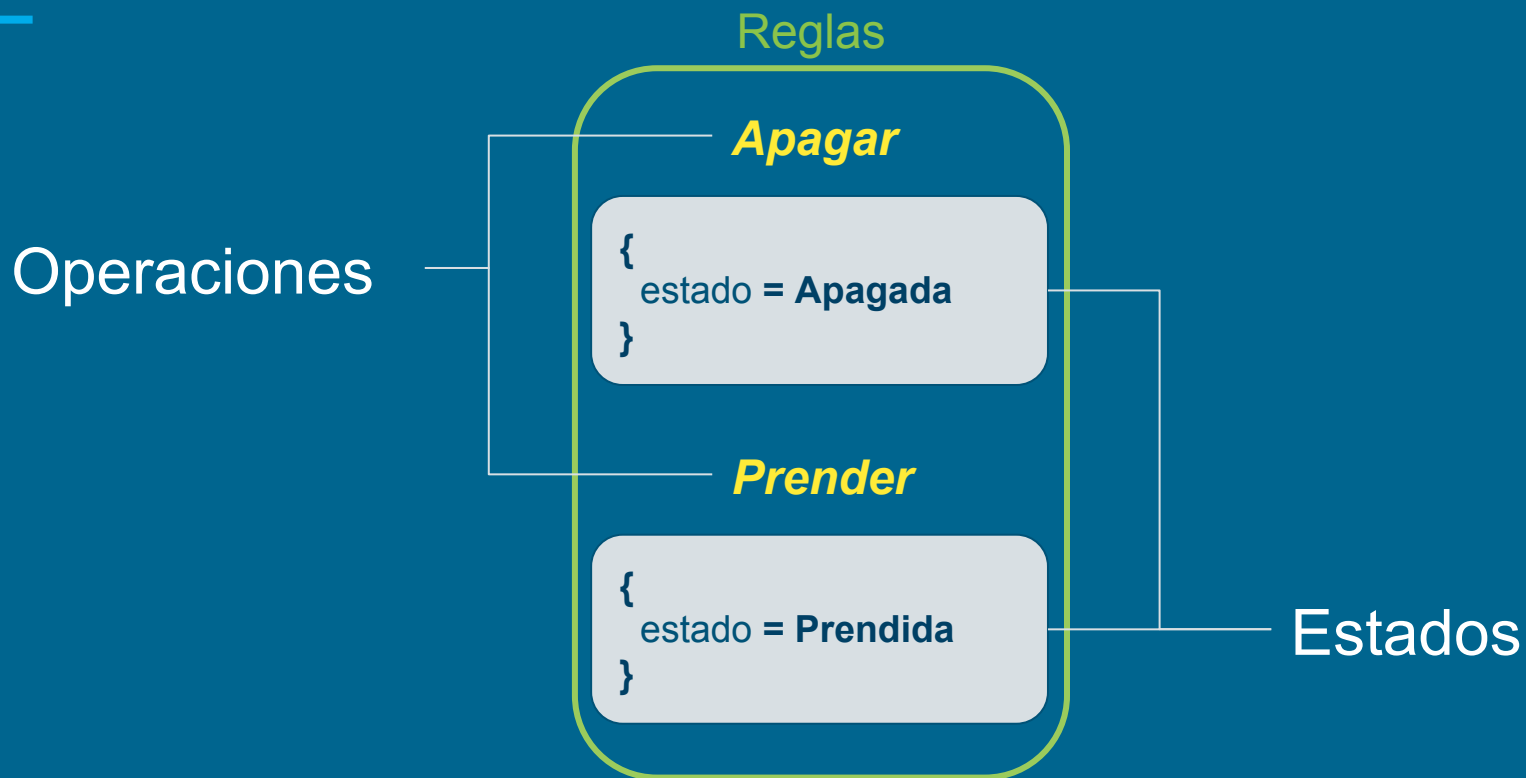
...

# Máquina de estados

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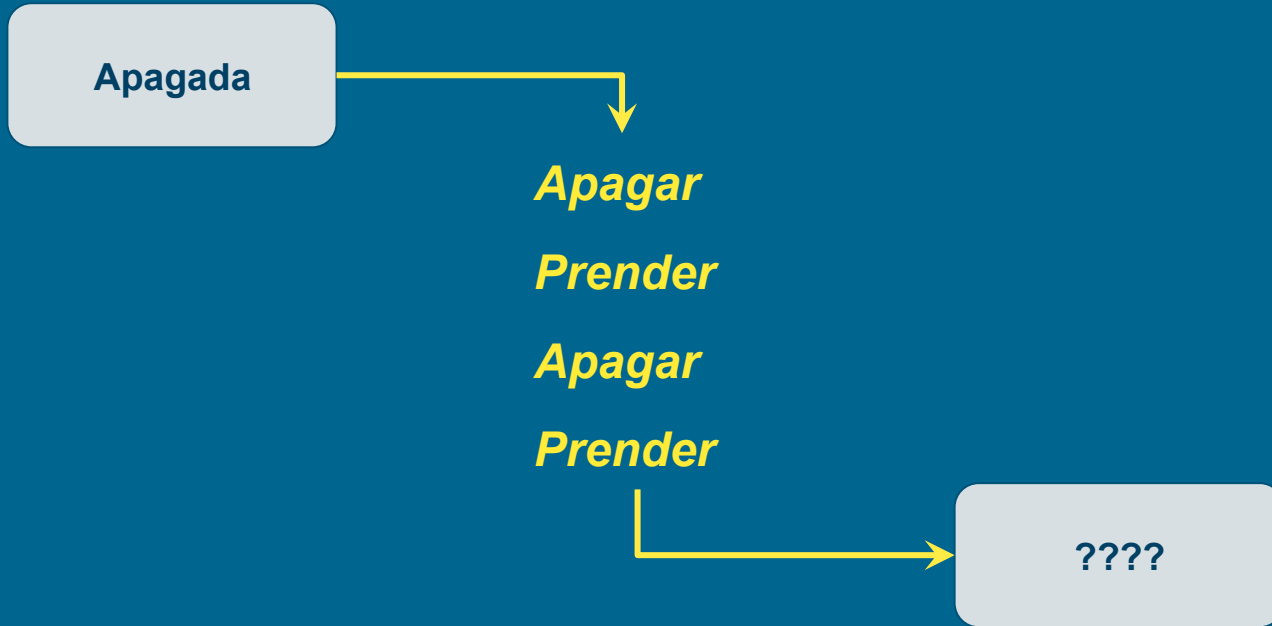


# Máquina de estados



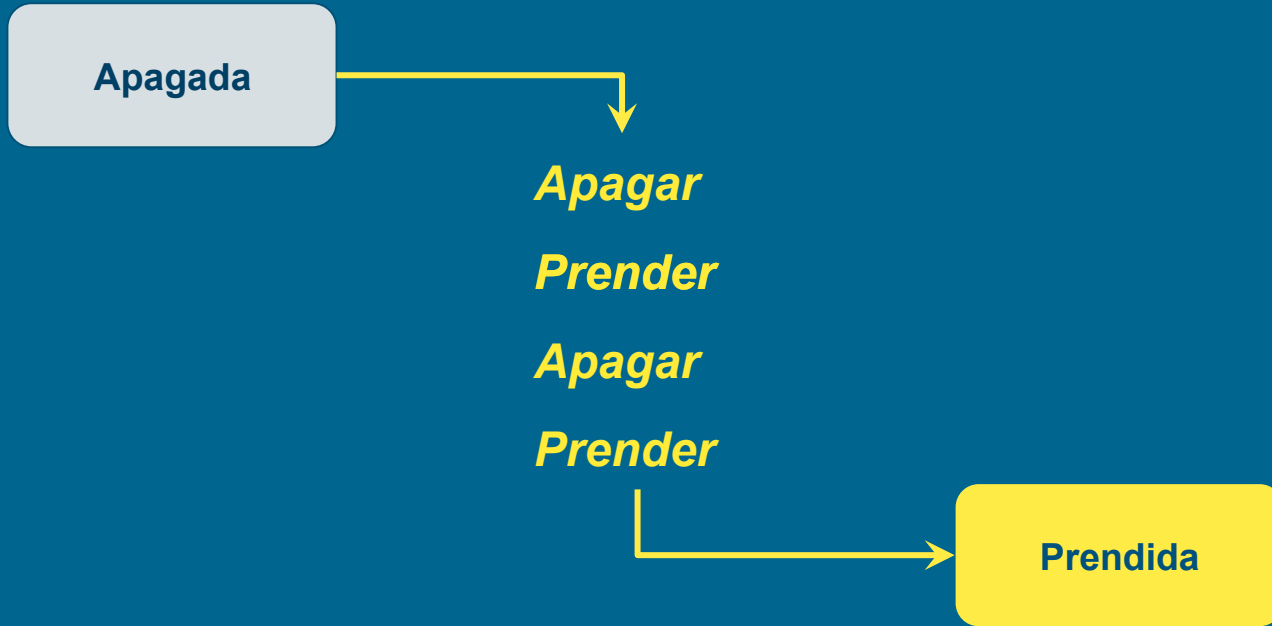
# Máquina de estados

---



# Máquina de estados

---



# Máquina de estados

---

**Estado inicial**

+

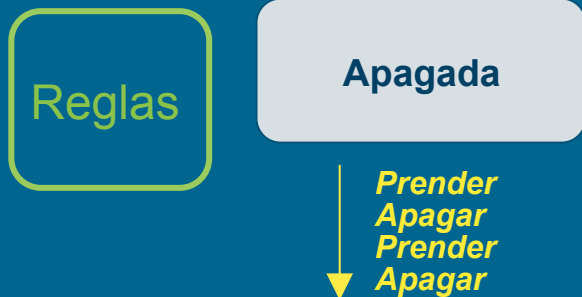
**cronológicamente**

---

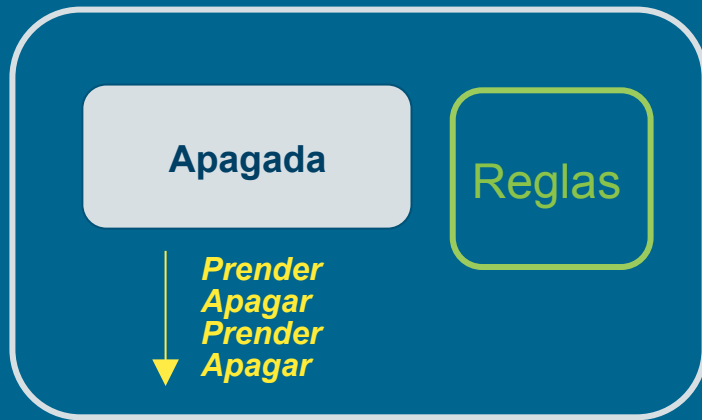
**Lista de operaciones ordenadas**

**Estado actual**

# Máquina de estados



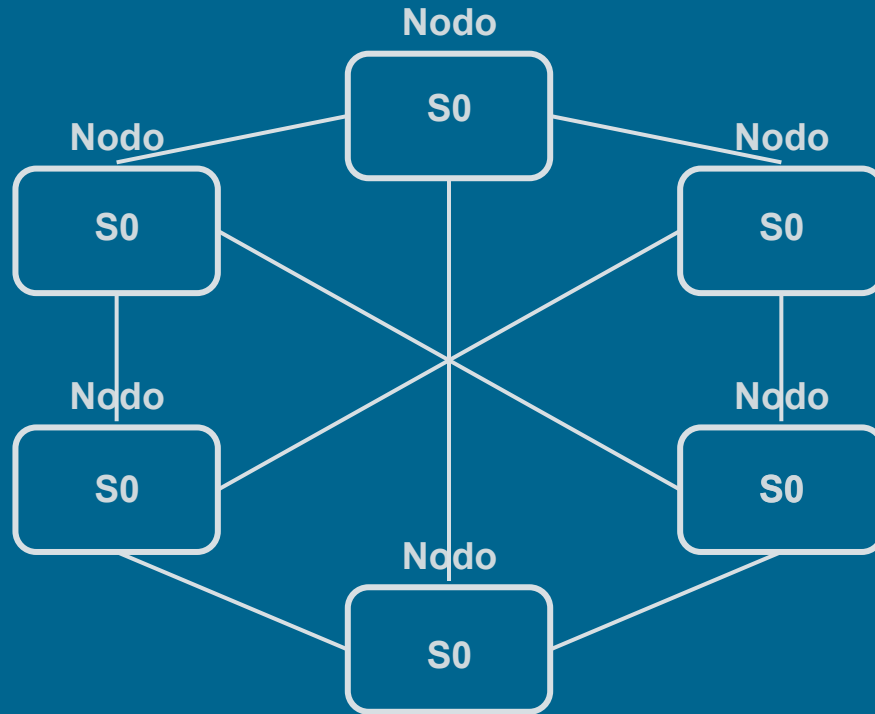
Nodo!





# Red P2P

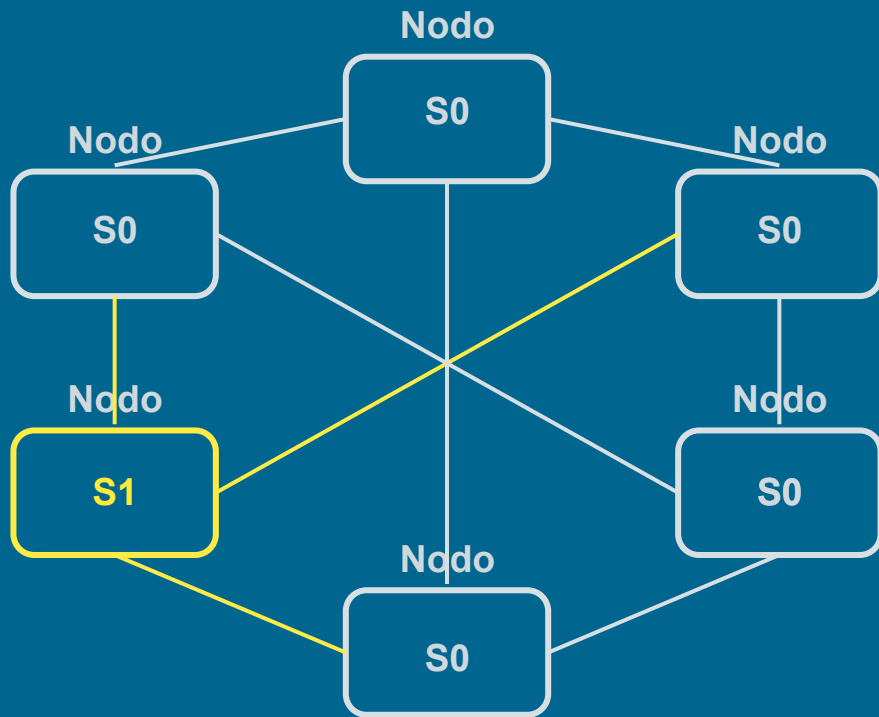
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*Apagar*



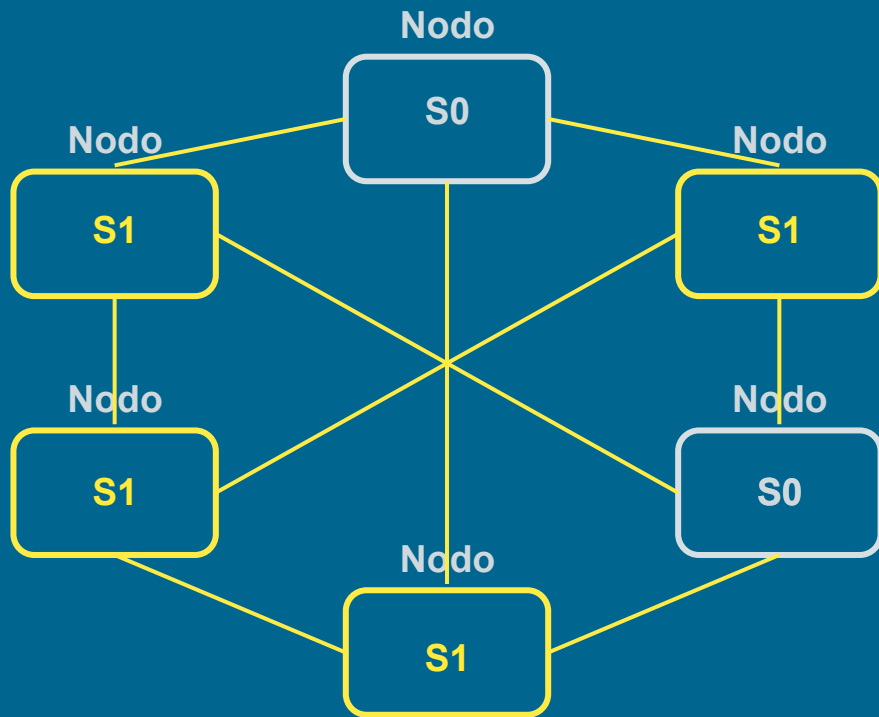
# Red P2P



*Apagar*

# Red P2P

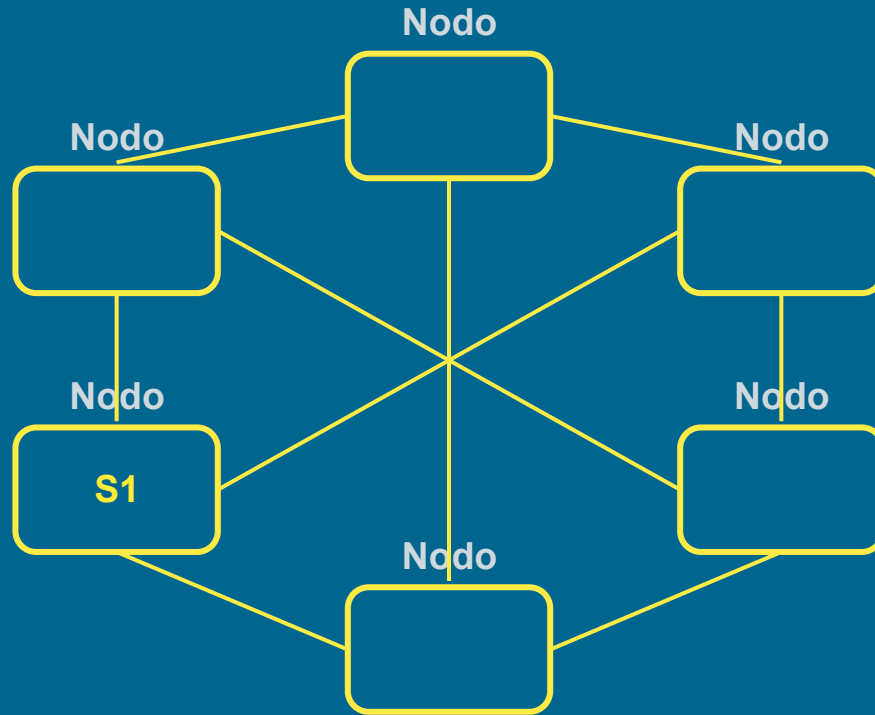
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*Apagar*

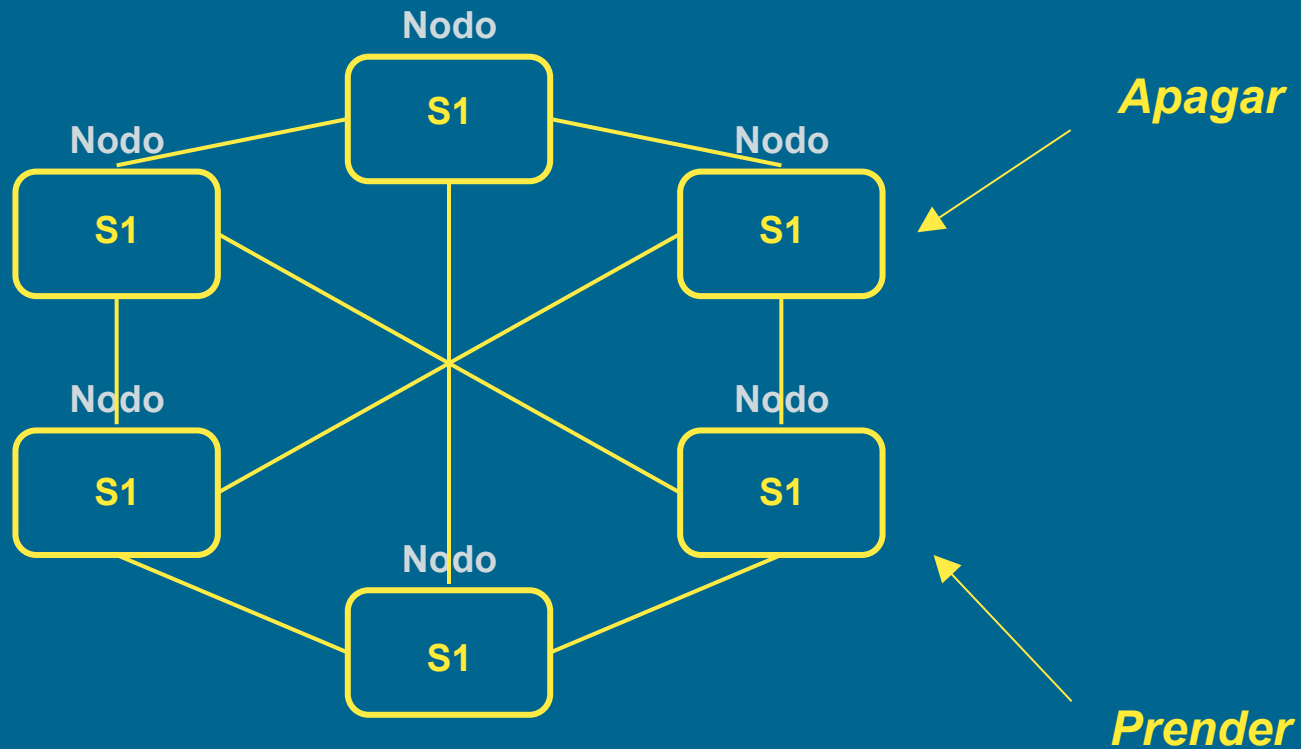
# Red P2P

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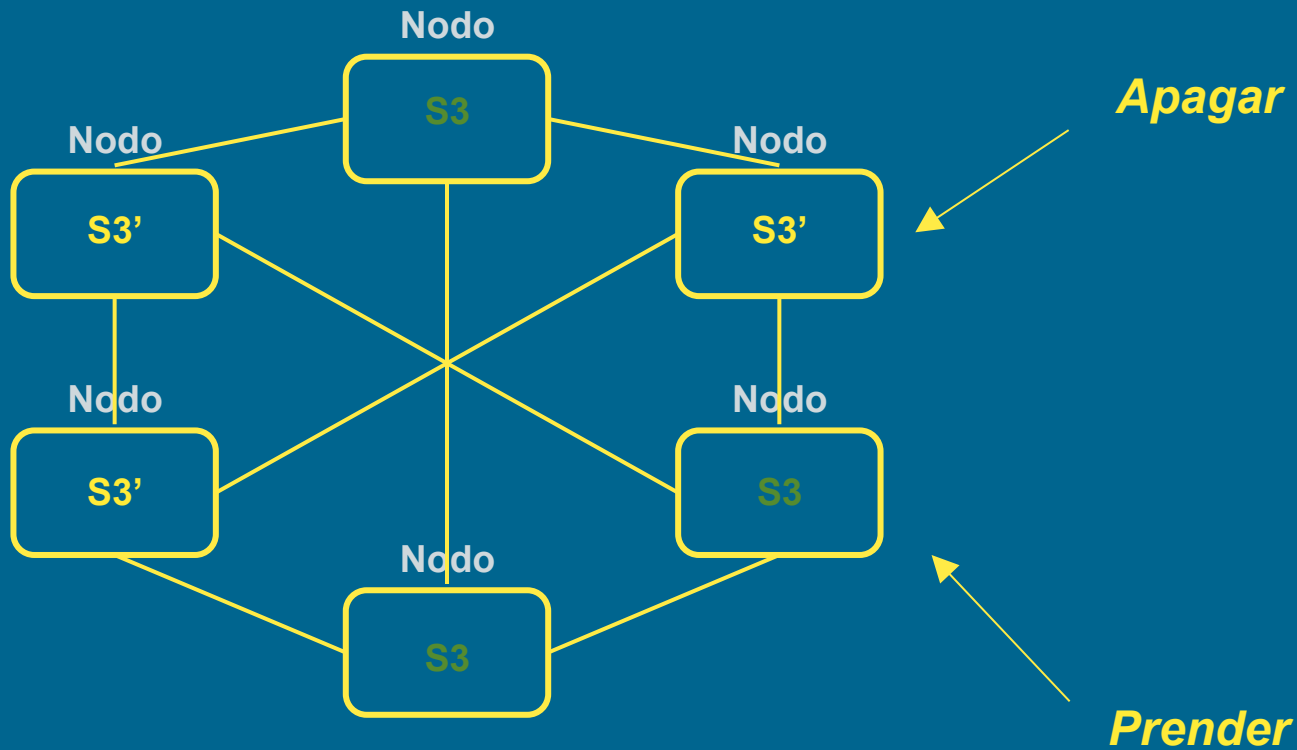


# Red P2P

---



# Red P2P



# **Registro cronológico de operaciones**

**Ok .. pero quien escribe  
en el registro?**

**Y cada cuanto tiempo?**

# Registro cronológico

- ~~Siempre el mismo nodo?~~

○ De un grupo de quince

PoW →

- ~~Siempre el mismo nodo?~~ de un "sup participante a la vez?

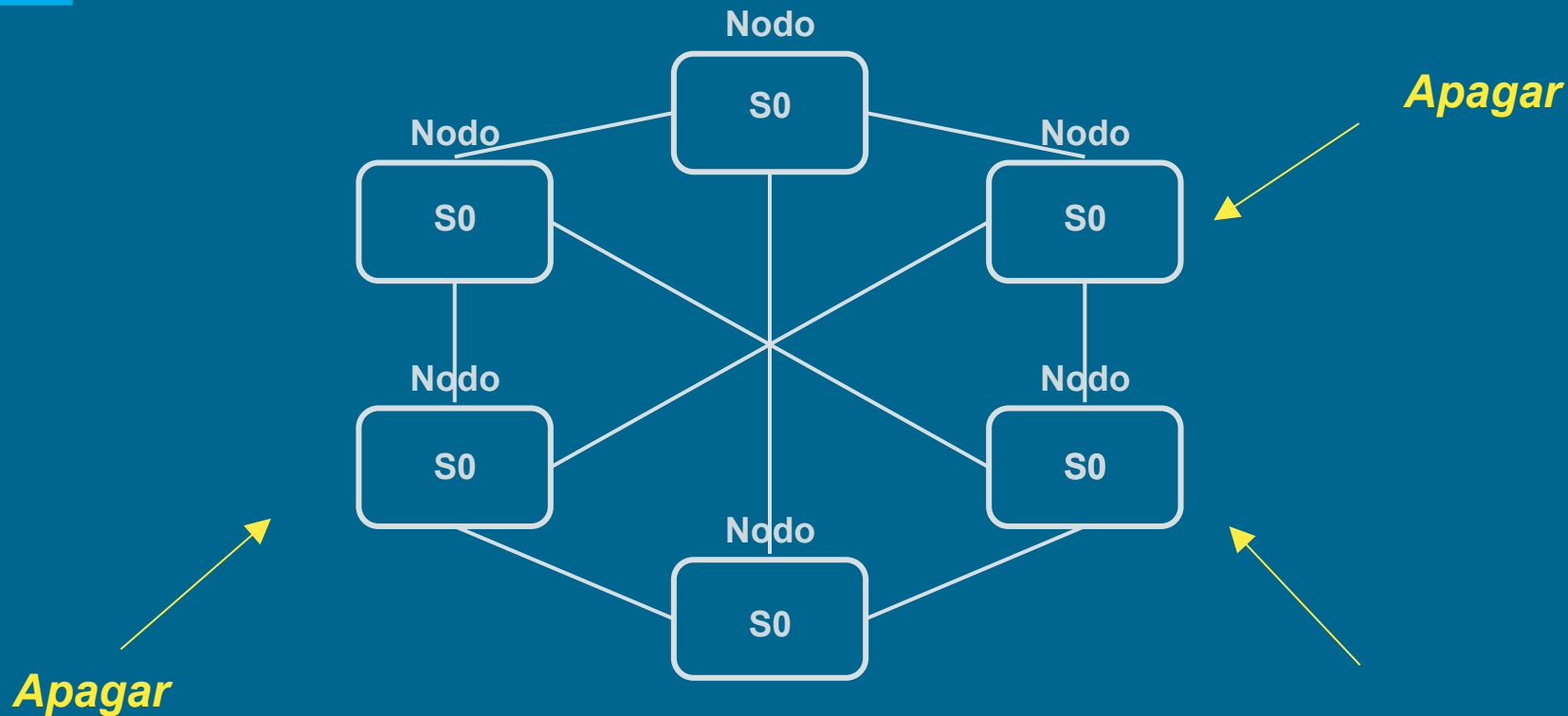
- Que muestre el resultado de elegido por los participantes un "sudoku".

← DPoS

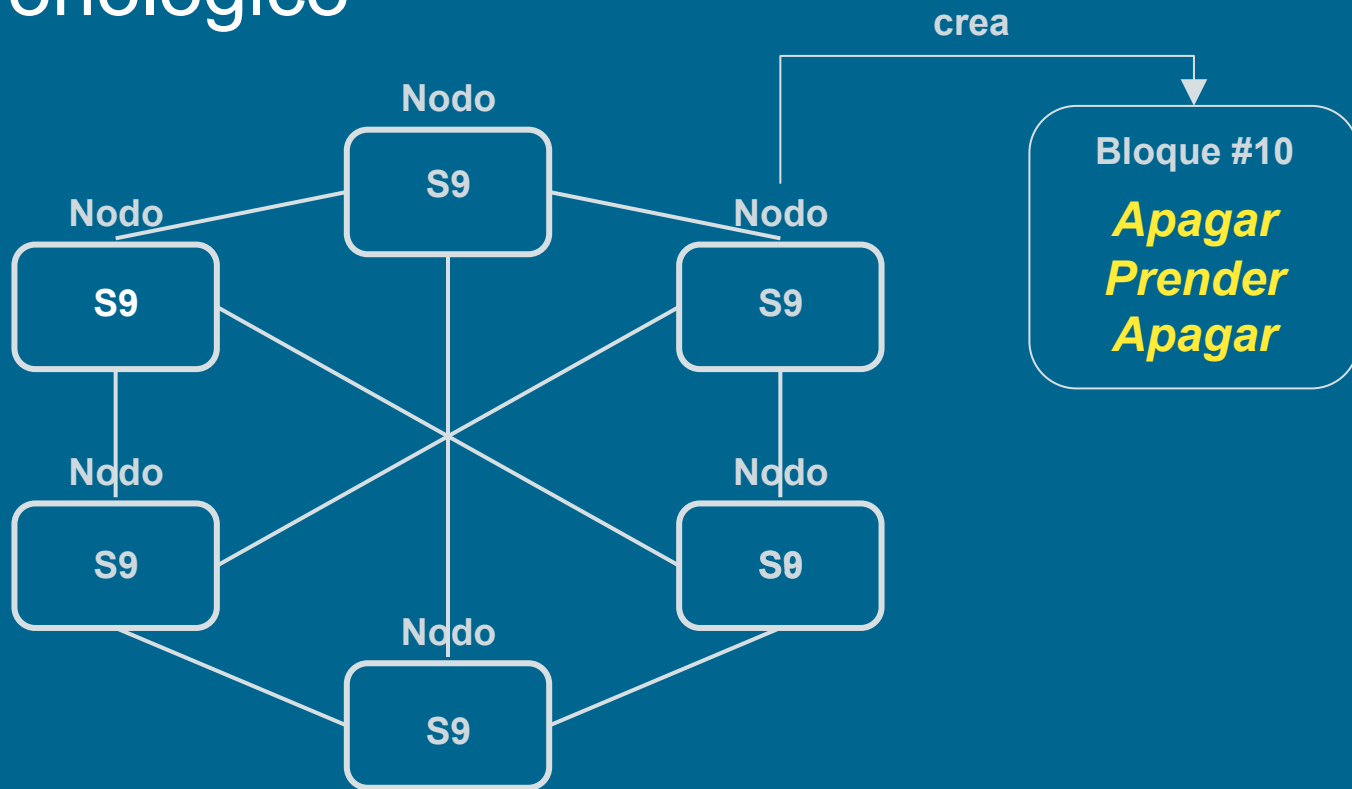


# Registro cronológico

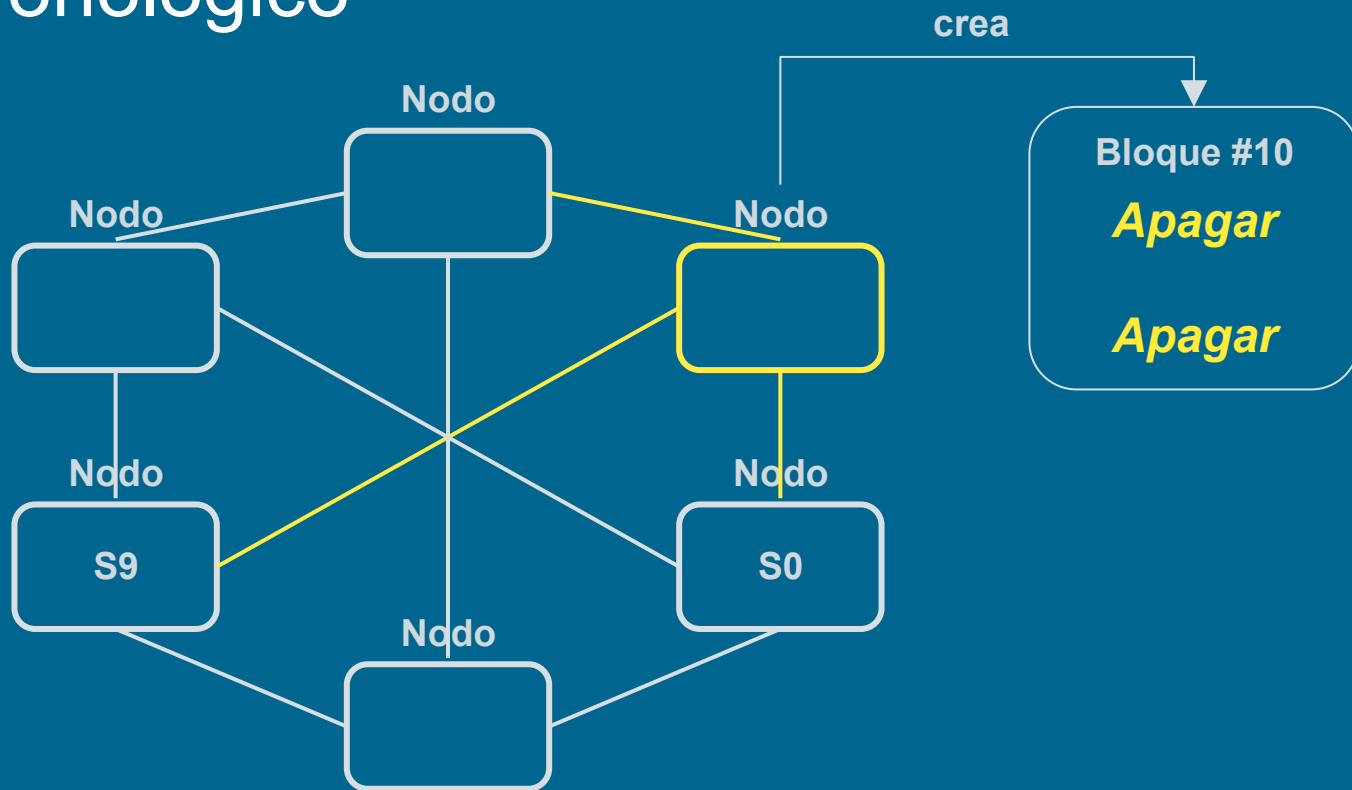
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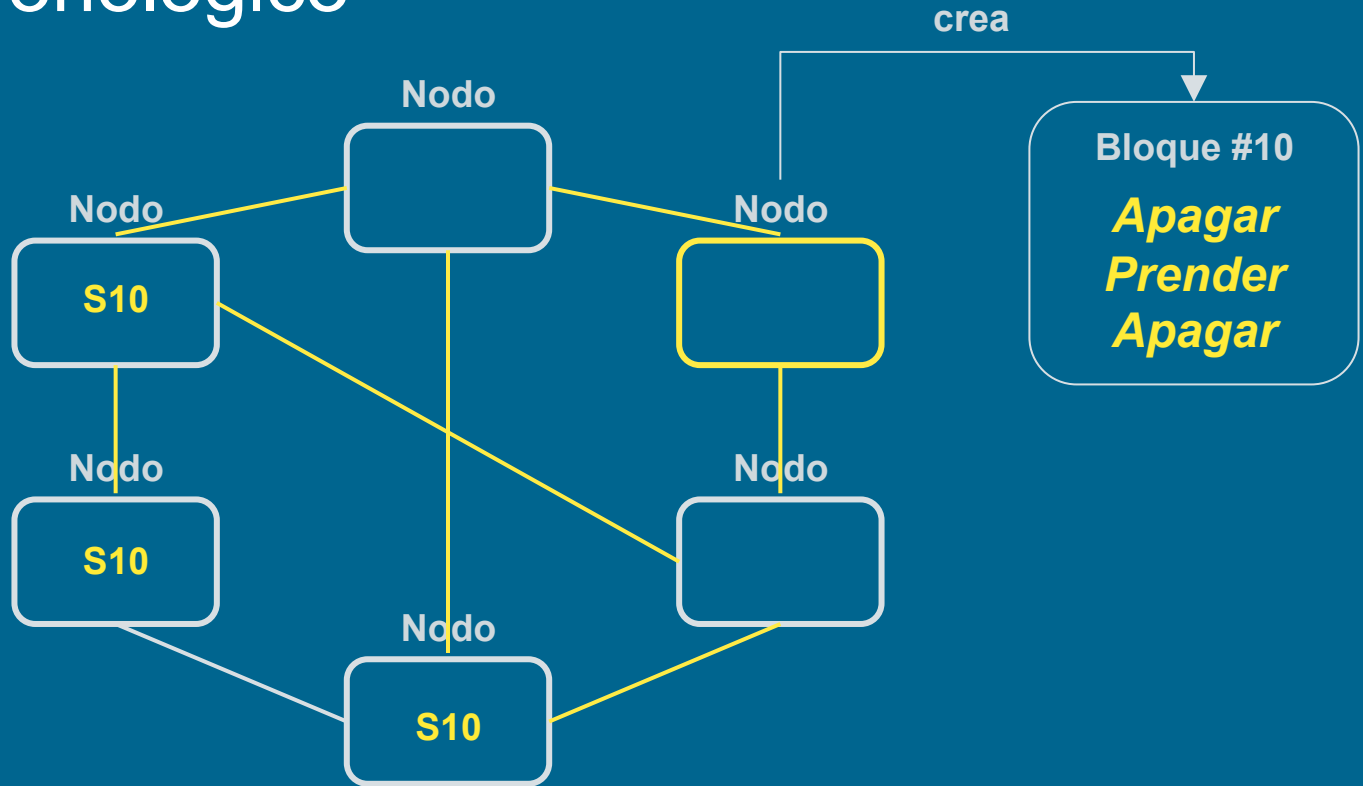
# Registro cronológico



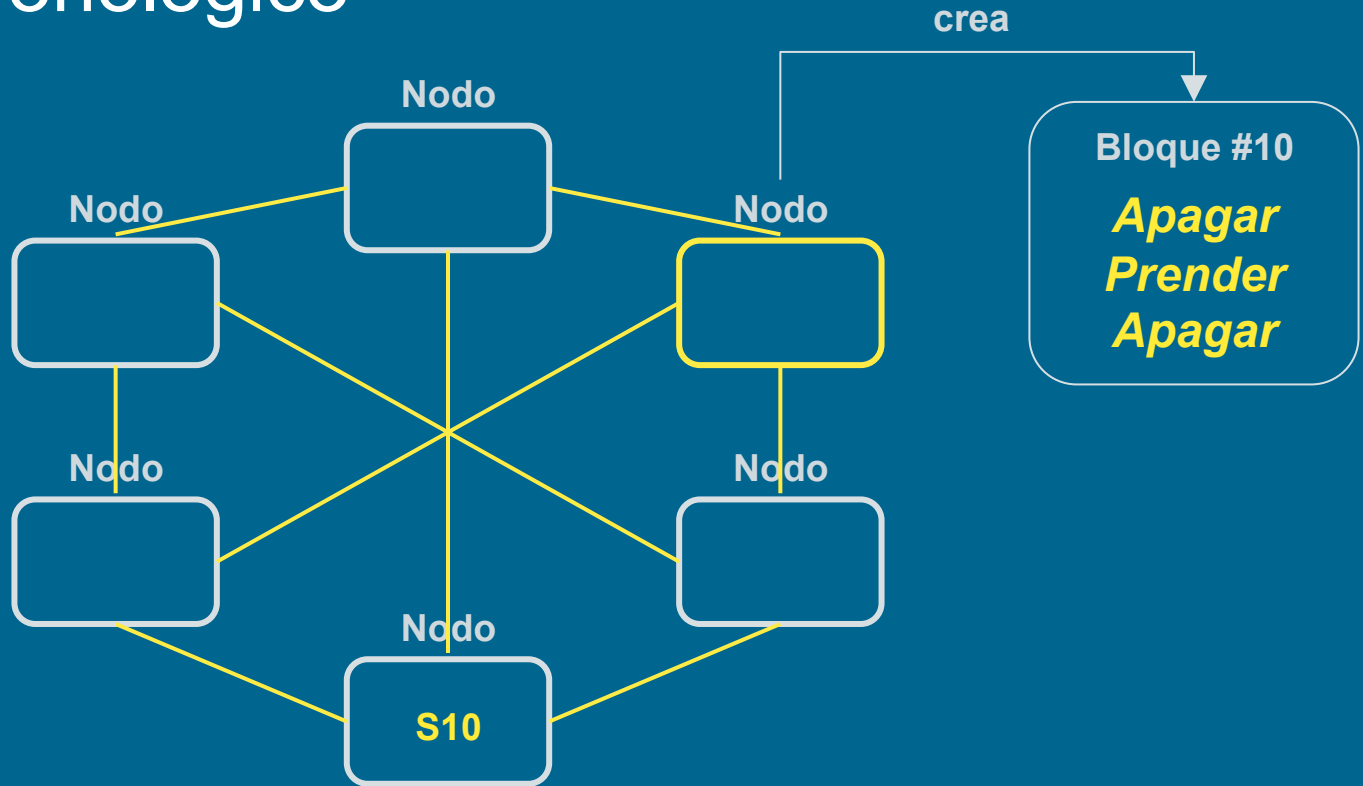
# Registro cronológico



# Registro cronológico



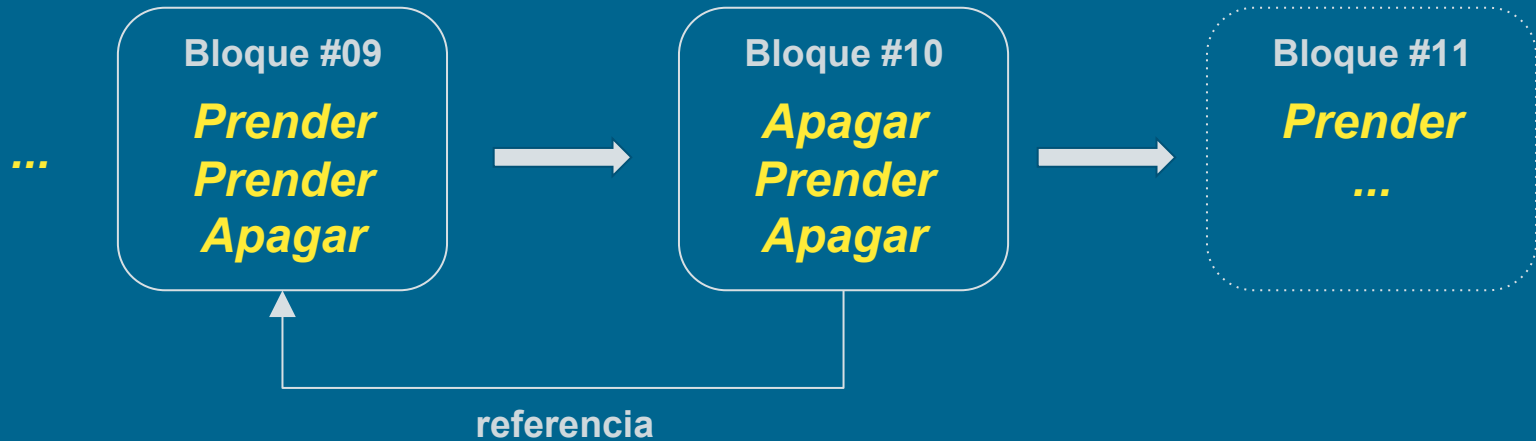
# Registro cronológico



# Registro cronológico

---

## “Blockchain”





**BLOCKCHAIN**



# AUTORÍA







**FECHA CIERTA**



**INTEGRIDAD**

INSIDE: A 12-PAGE SPECIAL REPORT ON COLOMBIA

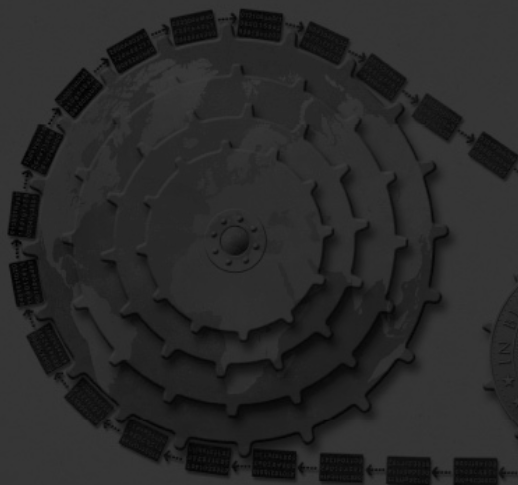
# The Economist

Our guide to America's best colleges  
Myanmar's free-ish election  
Those ever-creative accountants  
America takes the fight to IS  
Coywolves: the new superpredator

OCTOBER 31ST-NOVEMBER 6TH 2015 Economist.com

# The trust machine

How the technology behind bitcoin could change the world



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Australia \$21.00 (incl GST) Hong Kong HK\$ 90 Korea W\$ 12,000  
Brazil R\$ 18.00 India INR 1,200 Malaysia RM 22.50  
Canada US\$ 8.99 Indonesia Rp 77,440 Myanmar US\$ 3.00  
China RMB 75 Japan ¥1,470 New Zealand NZ\$ 12.00  
France € 6.99

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Brazil R\$ 18.00 India INR 1,200 Malaysia RM 22.50  
Canada US\$ 8.99 Indonesia Rp 77,440 Myanmar US\$ 3.00  
China RMB 75 Japan ¥1,470 New Zealand NZ\$ 12.00  
France € 6.99

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Canada US\$ 8.99 Indonesia Rp 77,440 Myanmar US\$ 3.00  
China RMB 75 Japan ¥1,470 New Zealand NZ\$ 12.00  
France € 6.99

I THINK WE SHOULD  
BUILD A BLOCKCHAIN

UH-OH

DOES HE UNDERSTAND  
WHAT HE SAID OR  
IS IT SOMETHING  
HE SAW IN A TRADE  
MAGAZINE AD?

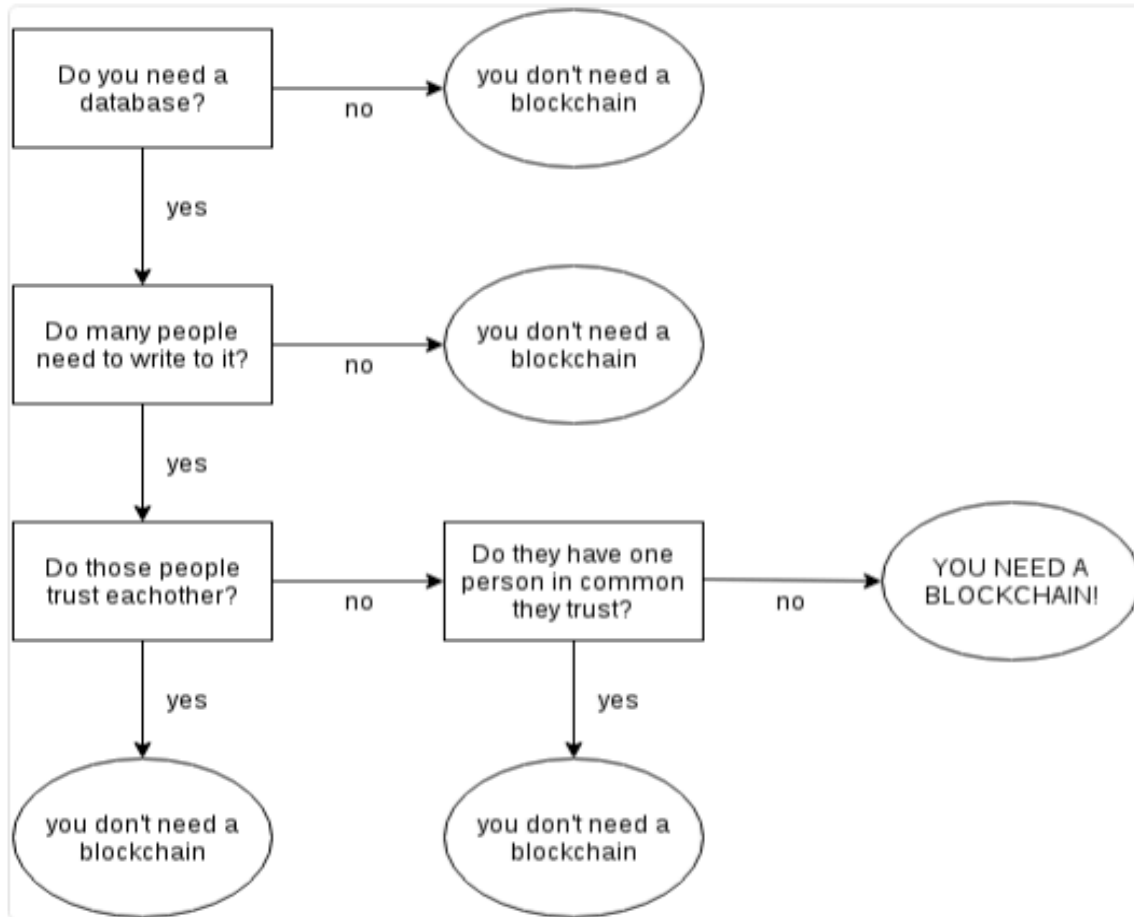
WHAT COLOR DO YOU WANT  
THAT BLOCKCHAIN?

I THINK  
MAUVE HAS  
THE MOST  
RAM.

S. Adams E-mail: SCOTTADAMS@AOL.COM

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## Do you need a #blockchain?





**BITCOIN**

A photograph of a man in a dark sweater and glasses sitting in a red office chair in a server room. He is looking at a laptop. The room is filled with server racks on both sides, with various cables and equipment visible. A blue semi-transparent banner is overlaid across the middle of the image, containing the word 'SEGURIDAD' in white, bold, uppercase letters.

**SEGURIDAD**

A person wearing a dark blue suit jacket and a matching tie is shown from the chest down. Their hands are clasped together in front of them. A semi-transparent blue banner with the text "PROPIEDAD INTELECTUAL" in white, bold, sans-serif font is centered across the image. Behind the banner, a faint, glowing blue brain graphic is visible, symbolizing intellectual property.

# PROPIEDAD INTELECTUAL



A hand holding a black pen, pointing towards the bottom right. The background is a blue gradient with white binary code (0s and 1s) arranged in diagonal lines. A semi-transparent dark blue horizontal bar is overlaid across the middle of the image.

**FIRMA DIGITAL**

A hand is shown drawing a flowchart on a whiteboard. The flowchart consists of several rounded rectangular boxes connected by lines, with arrows indicating the flow between them. A blue banner with the word "WORKFLOWS" in white capital letters is overlaid across the center of the image. The background shows a person in a blue shirt and a colorful tie.

# WORKFLOWS



# DIPLOMAS Y CERTIFICADOS

A wide-angle photograph of the White House in Washington, D.C. The building is white with a prominent portico supported by columns. In the foreground, there is a green lawn with a fountain spraying water upwards. The sky is blue with scattered white clouds. A semi-transparent blue horizontal band is overlaid across the middle of the image, containing the word "TRANSPARENCIA" in white, bold, uppercase letters.

# TRANSPARENCIA

A magnifying glass is positioned over a detailed property deed map. The map shows various land parcels with numerical values such as 8.66, 21.50, 23.00, and 23.00. A blue banner with white text is overlaid across the center of the image. The background is a blurred map with various numbers and lines representing property boundaries.

# REGISTRO DE PROPIEDAD



# MERCADO - POST-TRADE

# BENEFICIOS

SETTLEMENT INMEDIATO

REGISTRO CONSOLIDADO

AUDITORIA CONSOLIDADA

REDUCCIÓN DE RIESGO

EFICIENCIA

# DESAFIOS

MARCO REGULATORIO

ESTÁNDARES

DINERO SOBRE TECNOLOGÍA BLOCKCHAIN

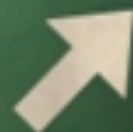
FALTA DE ANONIMATO

CUENTAS DE MARGEN



The Future

NEXT EXIT





IBM®

全球PC领导企业

creating global P





NEXT WEEK

TOMORROW

OTHER DAY

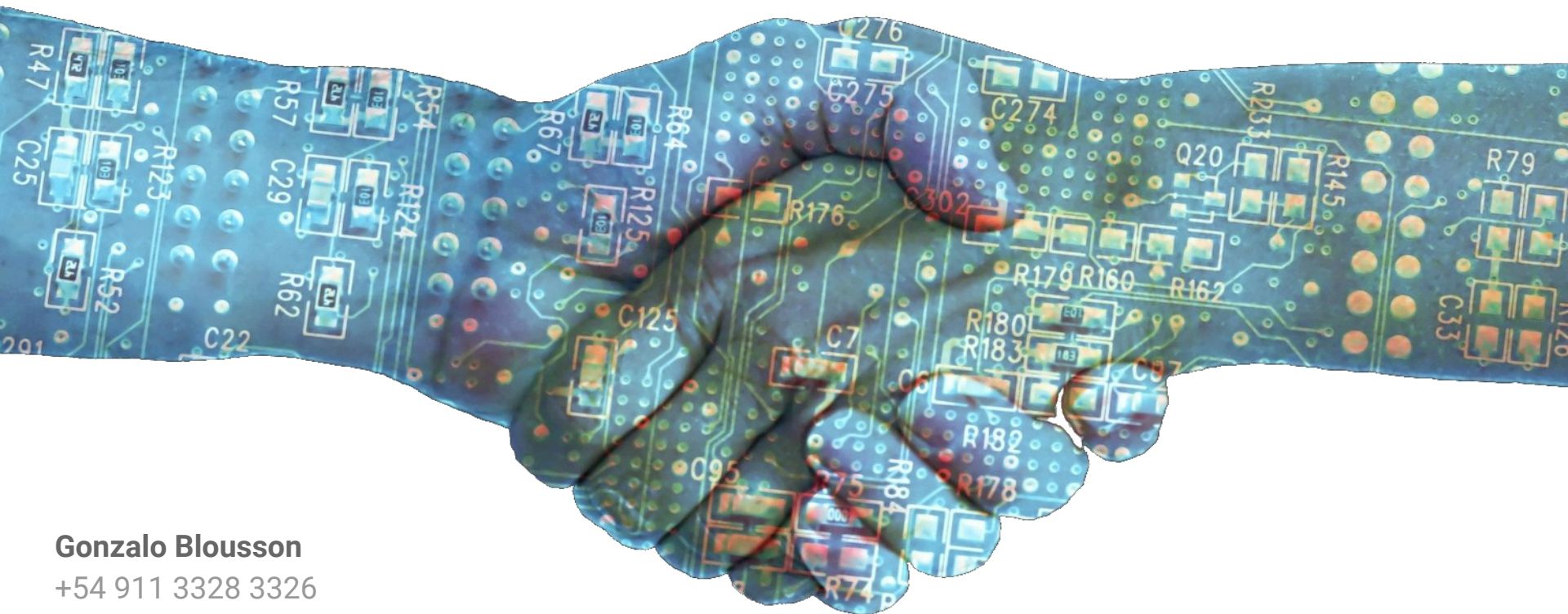
**TODAY**

SOMEDAY

IN THE FUTURE

NEXT YEAR

LATER



**Gonzalo Blousson**

+54 911 3328 3326

[gonzalo.blousson@signatura.co](mailto:gonzalo.blousson@signatura.co)

**SIGNATVRA**