

BLOCKCHAIN M.M.

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Christine Storr

Universitetsadjunkt och doktorand i rättsinformatik sedan 2001

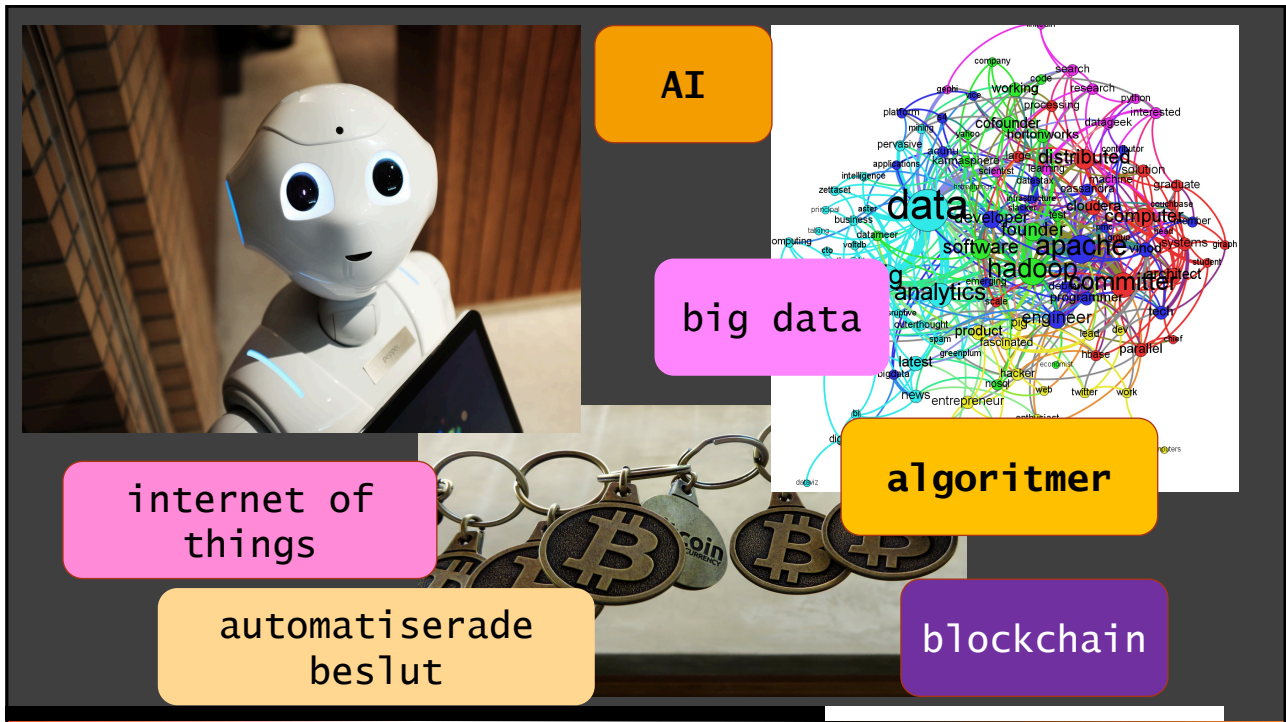
Juridiska fakulteten, Stockholms universitet

Fokus: personlig integritet, medierätt, rättskällor och juridisk informationssökning

Twitter: iinek

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transparens

Bygger juridiska
beslut verkligen på
rättskällor?



förutsebarhet

Hur kommer
domstolen döma i
rättsfallet?

Hur kommer
myndigheten besluta?



Likabehandling

Behandlas alla
ärenden lika?

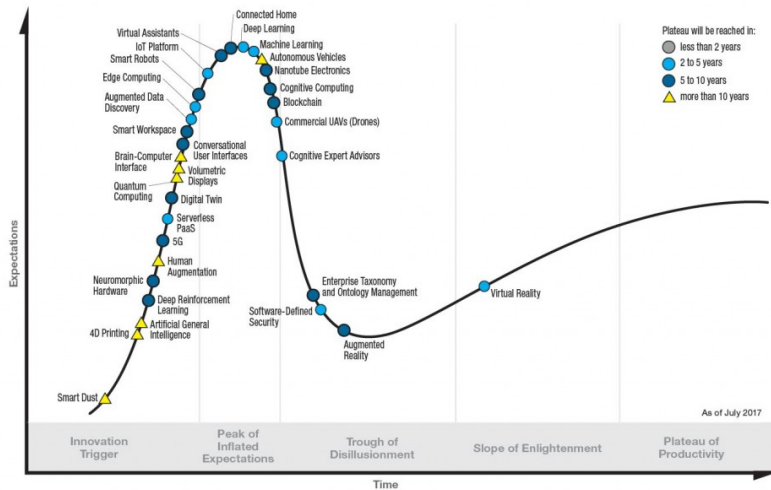


Legalitetsprincip

Grundas alla beslut
på författningar?

Följer tekniken
reglarna strikt eller
utvidgas reglarna?

Gartner **Hype Cycle** for Emerging Technologies, 2017



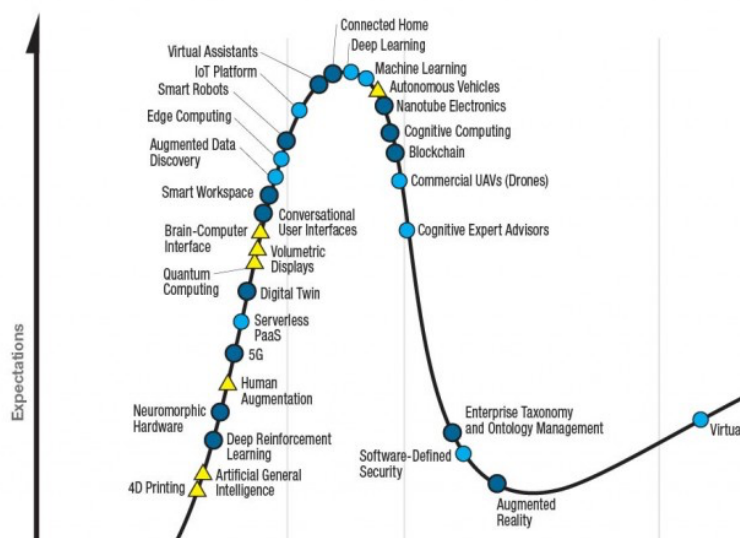
gartner.com/SmarterWithGartner

Source: Gartner (July 2017)
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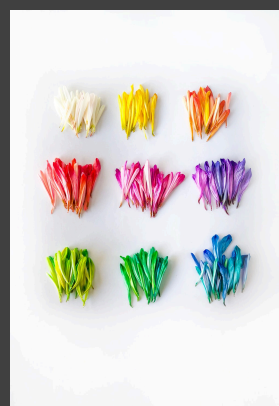
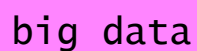
Gartner.

2017 Teknologier

Gartner **Hype Cycle** for Emerging Tech



2017 Teknologier

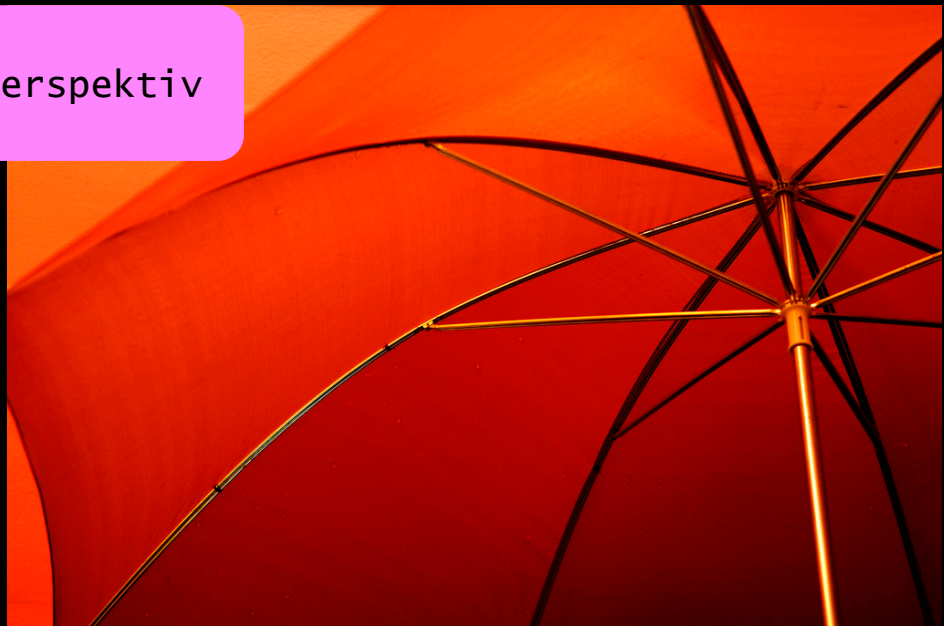


samla in stora datamängder
 från sociala medier,
 internet-of-things, andra
 lätt tillgängliga system



```
analysera med datorprogram
(algoritmer) för att se
mönster eller leta fram
specifika uppgifter
```

individperspektiv



datorperspektiv





algoritmer

som recept
Instruktioner till
datorn att
göra/beräkna
vissa saker

```
ws.on( "message", m => {  
  let a = m.split(" ")  
  switch(a[0]){  
    case "connect":  
      if(a[1]){  
        if(clients.has(a[1])){  
          ws.send("connected");  
          ws.id = a[1];  
        }else{  
          ws.id = a[1]  
          clients.set(a[1], {client: {position: {x: 0, y: 0}, id: a[1]}})  
          ws.send("connected")  
        }  
      }else{  
        let id = Math.random().toString().slice(2, 8)  
        clients.set(id, {client: {position: {x: 0, y: 0}, id: id}})  
        ws.id = id  
        ws.send("connected")  
      }  
    }  
  }  
})
```

kräver programmering

```
ws.on( "message", m => {  
  let a = m.split(" ")  
  switch(a[0]){  
    case "connect":  
      if(a[1]){  
        if(clients.has(a[1])){  
          ws.send("connected");  
          ws.id = a[1];  
        }else{  
          ws.id = a[1];  
          clients.set(a[1], ws);  
          ws.send("connected");  
        }  
      }else{  
        let id = Math.random().toString(36).substr(2, 10);  
        ws.id = id;  
        clients.set(id, ws);  
        ws.send("connected");  
      }  
    }  
  }  
});
```

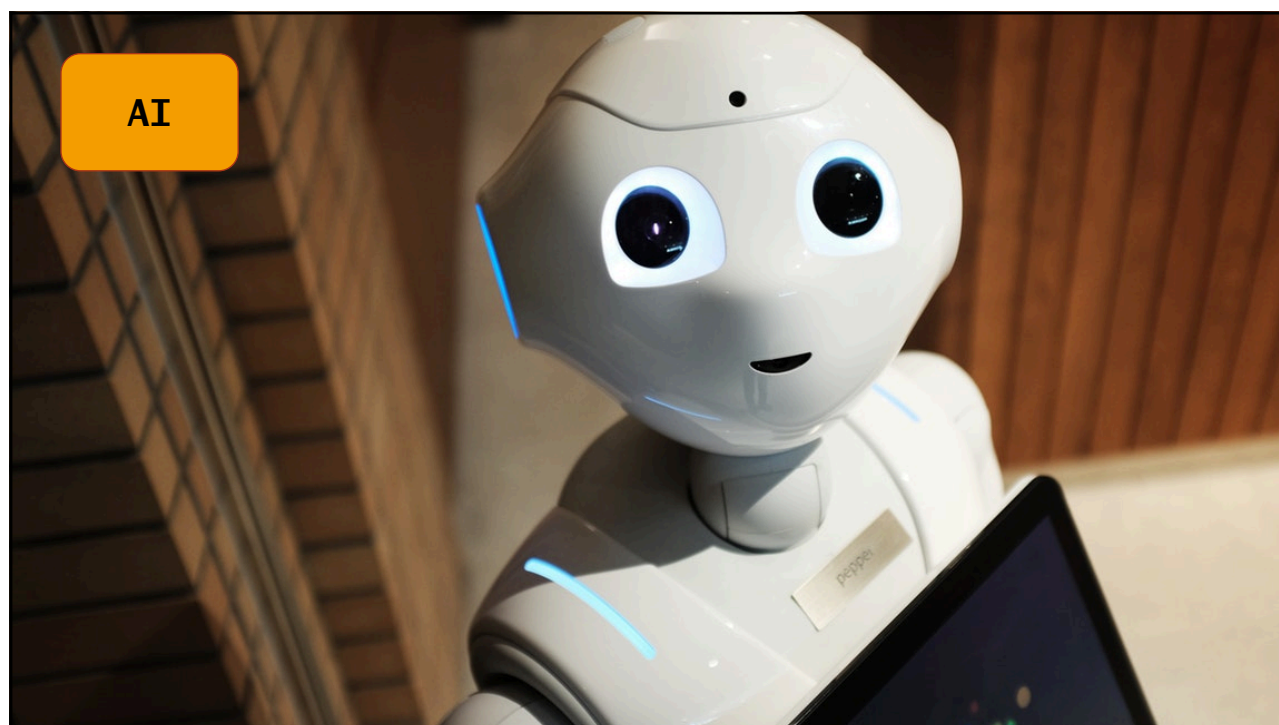
algoritmer

transparens

förutsebarhet

likabehandling

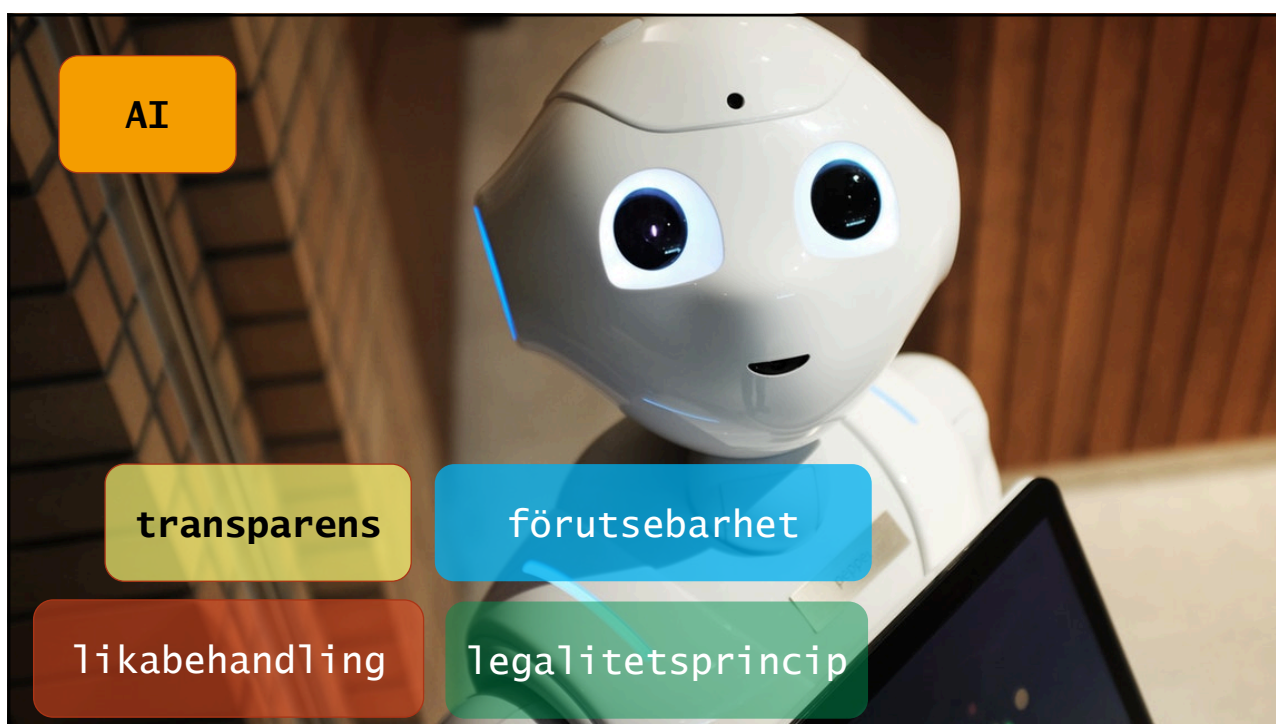
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```
ws.on( "message", m => {  
  let a = m.split(" ")  
  switch(a[0]){  
    case "connect":  
      if(a[1]){  
        if(clients.has(a[1])){  
          ws.send("connected");  
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        }else{  
          ws.id = a[1]  
          clients.set(a[1], {client: {position: {x: 0, y: 0}, id: 0}});  
          ws.send("connected")  
        }  
      }else{  
        let id = Math.random().toString().slice(2, 8);  
        clients.set(id, {client: {position: {x: 0, y: 0}, id: 0}});  
        ws.id = id;  
        ws.send("connected")  
      }  
    }  
  }  
});
```

AI mer än
programmering,
datorn lär sig
(machine learning)



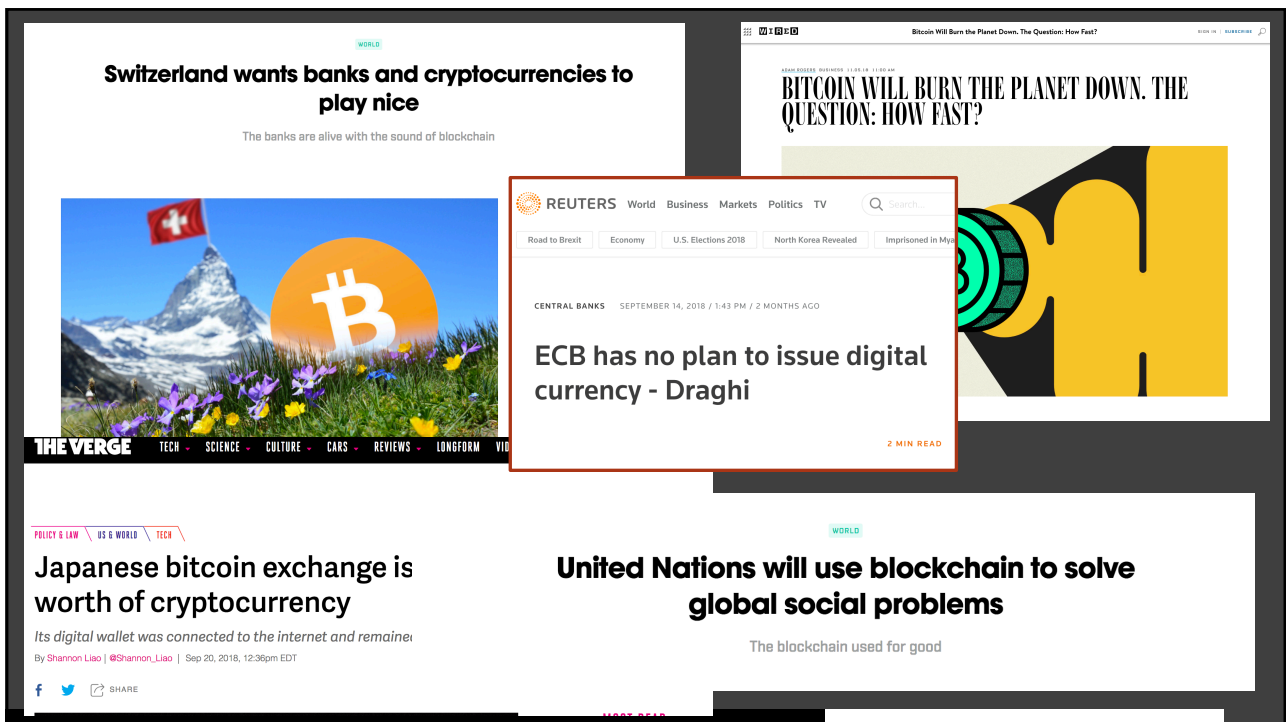




A close-up photograph of a gold-colored Bitcoin coin. The coin is circular and features a large, stylized 'B' with two vertical bars through it in the center. Around the 'B' are concentric circles containing the words "BITCOIN" and "PEER TO PEER". The coin is resting on a light grey, textured surface.

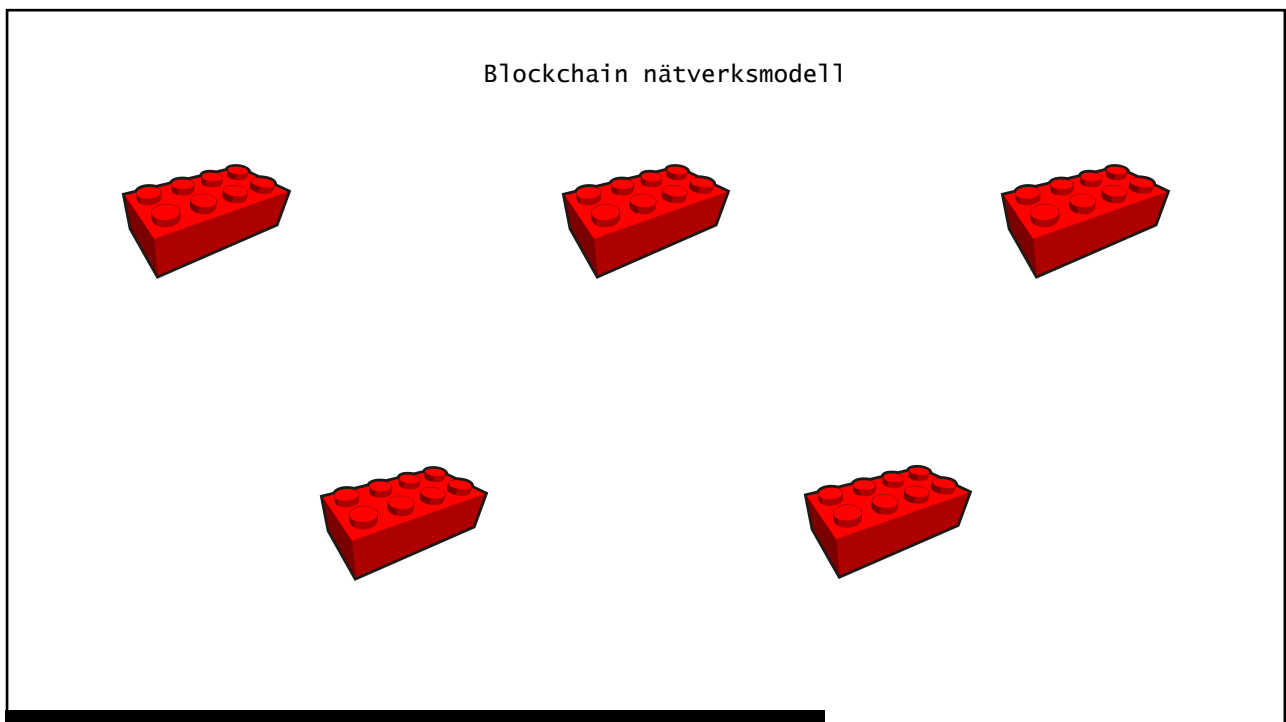
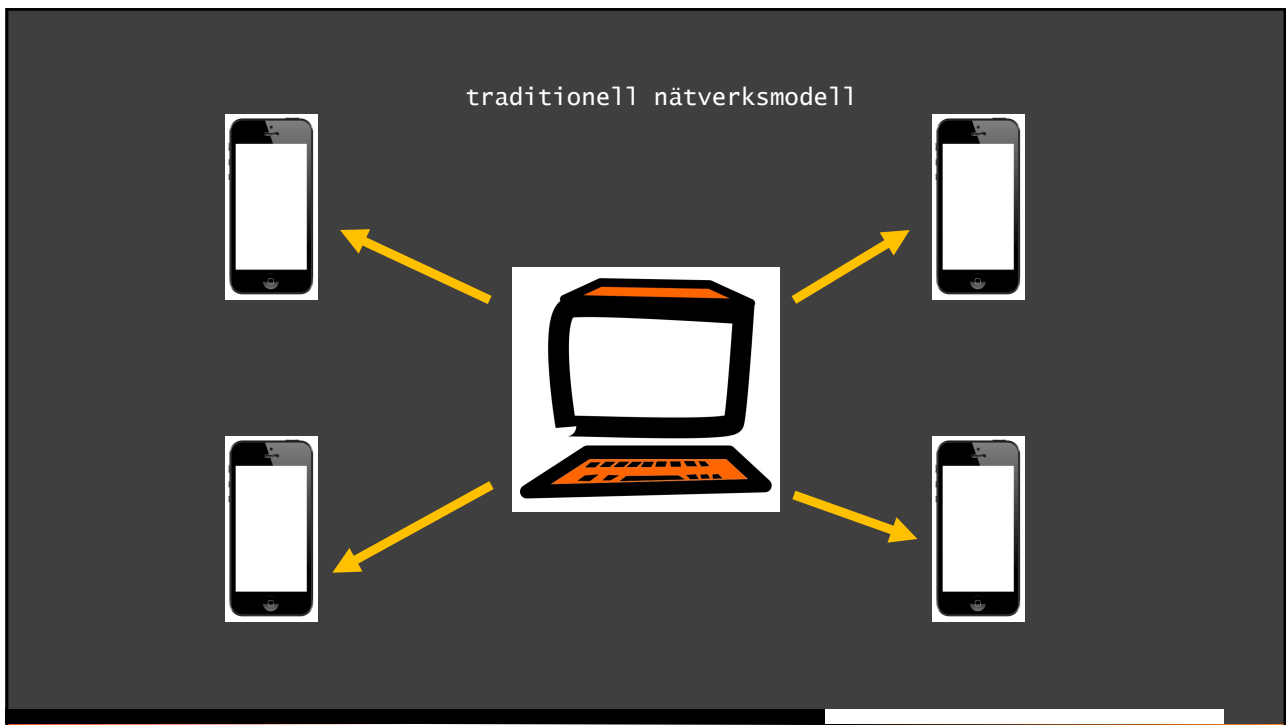
Bitcoin

Bygger på Blockchain teknik och avser endast betalningsmedel. Det finns även andra, t.ex. Ethereum, Steem, CryptoKitties, etc.

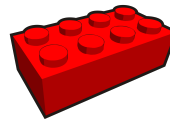
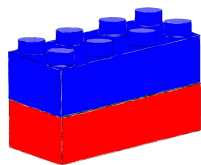
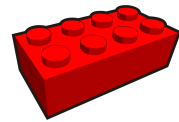
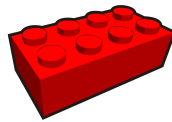
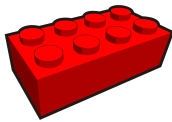


Länkar från nyhetsartiklar

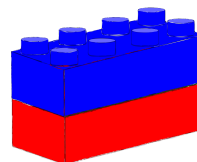
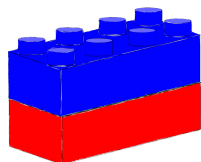
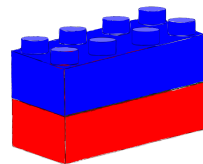
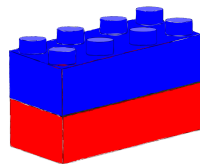
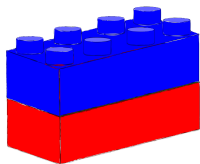
- <https://thenextweb.com/hardfork/2018/09/21/switzerland-cryptocurrency-banks-guidelines/>
- <https://www.theverge.com/2018/9/20/17882636/zaif-japanese-bitcoin-exchange-cryptocurrency-digital-wallet-60-million>
- <https://thenextweb.com/hardfork/2018/09/24/united-nations-blockchain-supt/>
- <https://uk.reuters.com/article/uk-ecb-bitcoin/ecb-has-no-plan-to-issue-digital-currency-draghi-idUKKCNI1U1J0?rpc=401&>
- <https://www.wired.com/story/bitcoin-will-burn-planet-down-how-fast/>



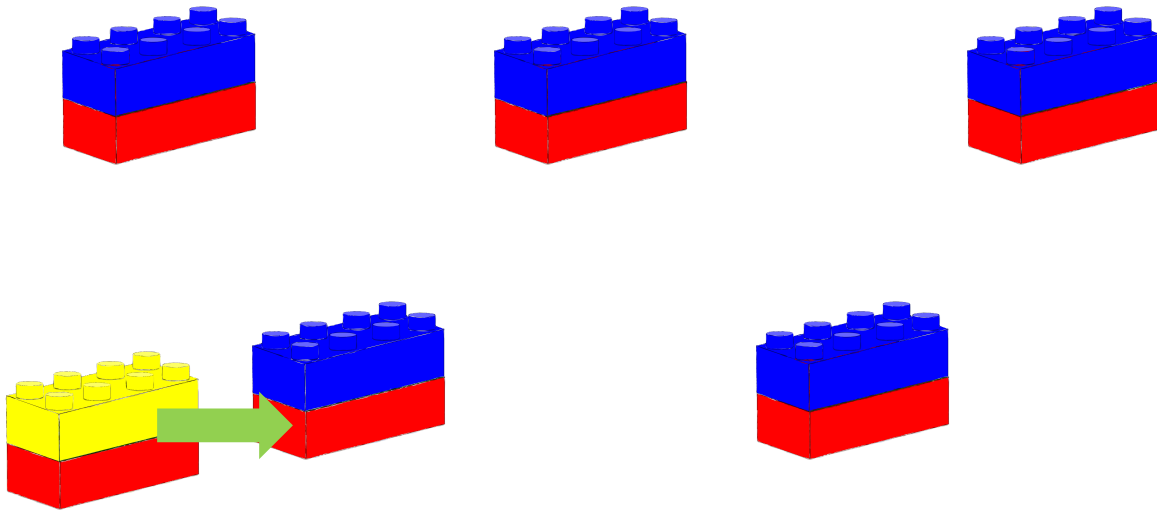
ny information läggs till



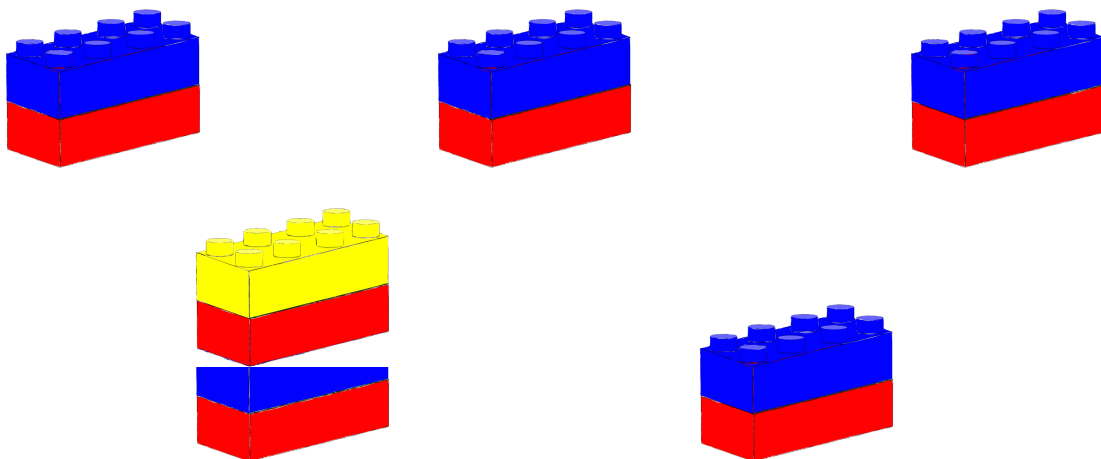
Samma information läggs till på alla

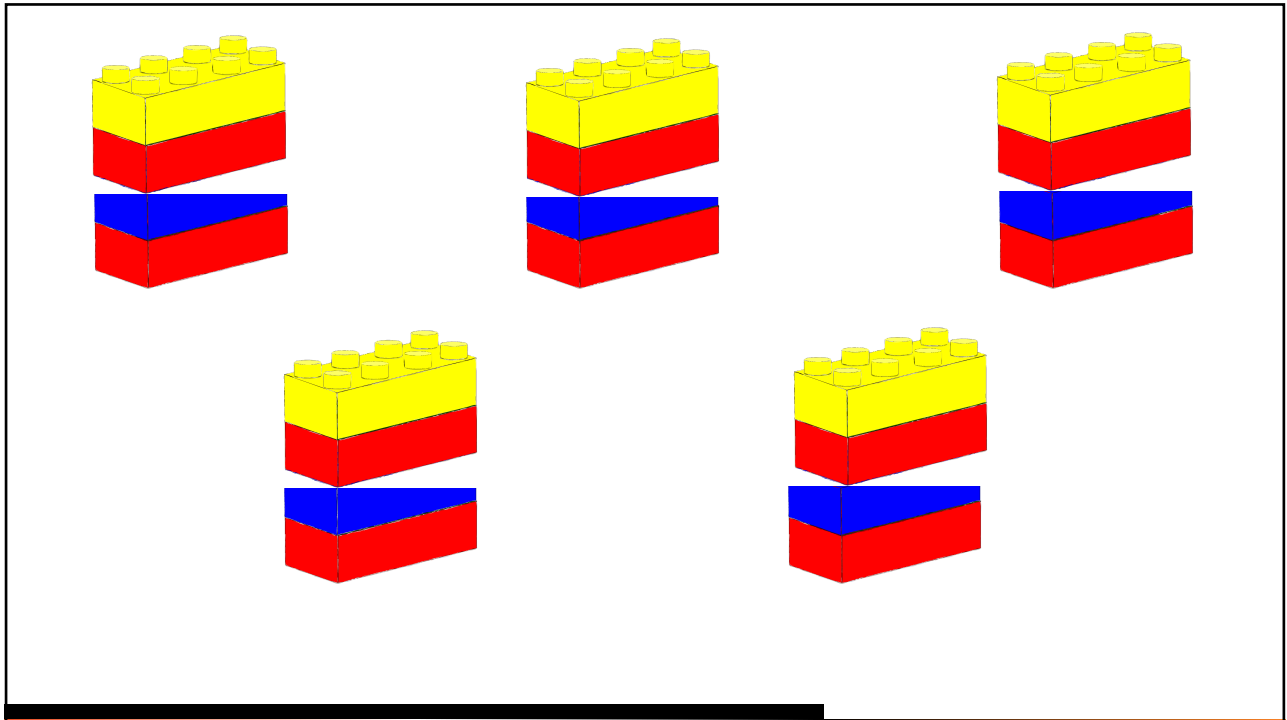


inte möjligt att ändra befintlig information



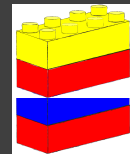
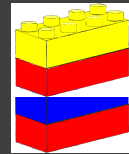
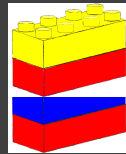
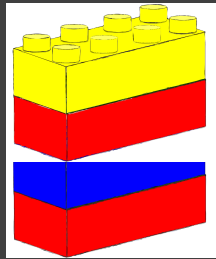
ny information kan bara läggas ovanpå





Tillit bygger på 2 faktorer

- Lego klossar bygger på varandra
- Decentraliserat, alla klossar har samma lego bitar



Blockchain

transparens

förutsebarhet

likabehandling

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Smarta
avtal

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