GDC

Embracing Disruption: What blockchains mean for the game industry

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UBM

What to Expect

- Basic introduction to blockchains
- Why they are relevant to the game industry
- Discussion of existing projects

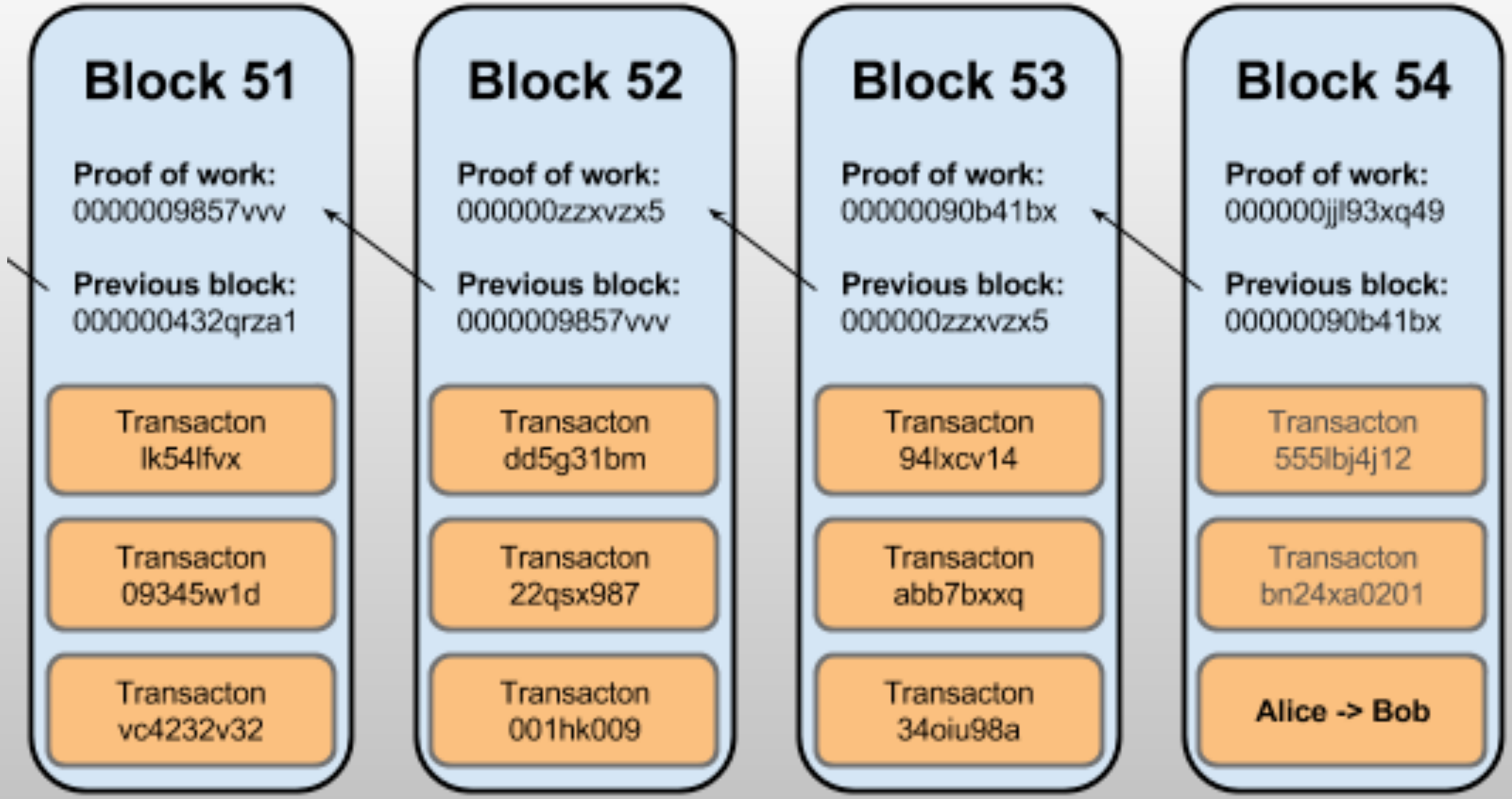
Introduction to Blockchains

(this is the hard bit)

r/bitcoin
MAGIC
Internet
Money
Join us

			Dr.			Cr.		
1946 Dec 1	Taxation A/c To C.P.L. Post War Refund A/c being amount of Post War Refund in respect of 1945 retained from assessment. Gross £1562 0/- Less Tax C/F 703 1 7 £859 6 5							
		Dr. 234	859	6	5			
						859	6	5
31	Depreciation A/c To Sundries							
	Holsley Bar (Mr. Shell)	32				250	-	-
	Mess & Saloon (Mr. Brooks)	32				125	-	-
	Property: Junction Street	2				100	-	-
	Royal Terrace	2				50	-	-
	Coffee flakes: 10% Depreciation	4				201	6	6
	Special Depreciation	4				311	18	1
	for amounts written off							
		Dr. 212	76	2	-			
	Travelling Expenses A/c To Charges A/c for amount charged to wrong account-adjusted	145				76	2	-
		Dr. 234	100	-	-			
	Depreciation A/c To Furniture & Fittings for amount written off	15				100	-	-

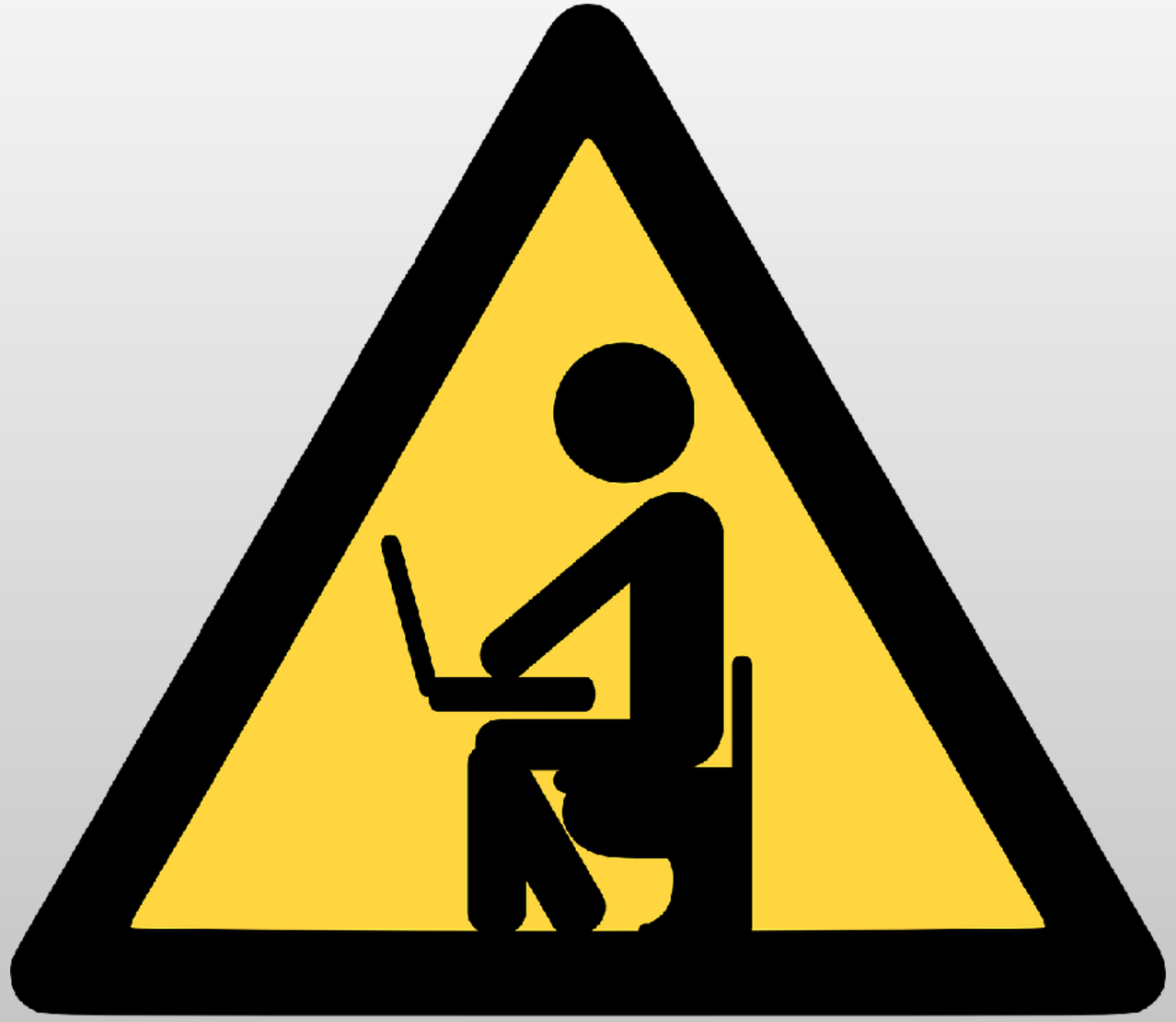
			Dr.			Cr.		
1946 Dec 31	Pension A/c To Wages A/c for pensions paid transferred	Dr.	246	18	4			
						246	18	4
	English Travelling Expenses A/c To English Wages A/c for error corrected by L.B. 156	Dr.	419	8	18	5		
						8	18	5
	English Wages A/c To English Travelling Expenses A/c for error corrected by L.B. 174	Dr.	421	35	-	-		
						35	-	-
	English Wages A/c To Wages A/c for properties transferred	Dr.	421	776	-	-		
						776	-	-
	Editing A/c To Wages A/c for properties transferred	Dr.	158	1643	-	-		
						1643	-	-
	English Postages A/c To Postages A/c for properties transferred	Dr.	429	347	-	-		
						347	-	-
	Charges English A/c To J.K. Baxter's Commission A/c for commission on sales 1946	Dr.	415	22	1	2		
						22	1	2
	Audit Fees A/c (1946) To Wilson & Mathews	Dr.	390	183	15	-		
						183	15	-


Block 51
Proof of work:
0000009857vvv
Previous block:
000000432qrza1
Transacton
lk54lfvx
Transacton
09345w1d
Transacton
vc4232v32
Block 52
Proof of work:
000000zzxvzx5
Previous block:
0000009857vvv
Transacton
dd5g31bm
Transacton
22qsx987
Transacton
001hk009
Block 53
Proof of work:
00000090b41bx
Previous block:
000000zzxvzx5
Transacton
94lxcv14
Transacton
abb7bxxq
Transacton
34oiu98a
Block 54
Proof of work:
000000jjl93xq49
Previous block:
00000090b41bx
Transacton
555lbj4j12
Transacton
bn24xa0201
Alice -> Bob

Features of a Blockchain

- Decentralised: no single point of failure or control
- Transparent
- Pseudo anonymous
- Immutable
- Permissionless (censorship resistant)
- Persistent

SAY BLOCKCHAIN
ONE MORE TIME
memegenerator.net



COINTELEGRAPH

VIRES IN
NUMERIS
2011
25 BITCOINS

digital
pdp-11

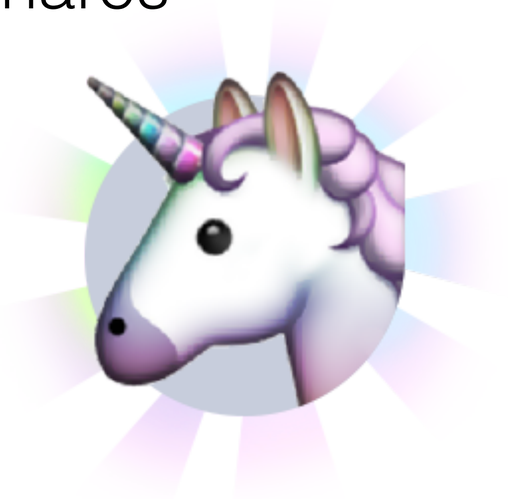
ethereum.org

What's this got to do with Games?

(this is the good bit)

Introducing Blockchain Tokens

- Blockchain based asset that can be **created**, **owned**, **transferred** and **destroyed**
- Can represent anything we can think of, e.g. money or shares
- Token creation is **transparent**
- Only the token owner can control their token
- Ethereum has a standard token model. And **unicorns**.



Cryptoproperty

- Tokens can represent ownership of **any** property, e.g. magic swords, trading cards, skins, e-sports merchandise, digital Nike trainers, limited edition soundtracks…
- Tokens confer a right of ownership - players **own** their cryptoproperty, forever
- Developers/stores no longer manage who owns virtual property
- Cryptoproperty can be recognised by any platform without requiring a central authority
- Issuance is transparent, so is provably fair.
- Tokens are (usually) transferrable, i.e. can be **traded**

Benefits of Cryptoproperty

- Cryptoproperty can be pre-sold as a form of crowdfunding
- Tradable on secondary markets without fraud risk
- Usable across products and even sectors, by anyone
- **True digital scarcity** (with optional **provenance**)
- Enable **investing** in cryptoproperty
- Enable multiple new business models

Cryptocurrency

- Issue cryptocurrency for your game - just another token!
- The currency can be used in lots of games, not just yours
- Business model can be built around the currency
- + All the other benefits of tokens
- Legal considerations

OWNAGE

Lakota Angel 12
TRAINER

Imagine…

- You're watching a CS:GO tournament on Twitch and your favourite team have a new set of skins.
- You can buy the official replica skins from within Twitch, but only during the tournament.
- The actual skins in use in the match are up for auction throughout the tournament
- You can provably own the very knife used by the tournament MVP
- The tournament winners receive exclusive 1-of-a-kind winner skins
- You can trade the skins at any time after the tournament

State of the Industry

(early days)

TBB

HUC
HUC
HUC
HUC
HUC
HUC
Huntercoin

SaruTobi

SPELLS OF GENESIS

Want some sweet gear? Follow us into the alley...

BEYOND
THE
VOID

AUGMENTORS

HammerCoin

gamecredits

UK GAMES FUND

Decentralized eSports Platform Based on Smart Contracts.

designed by freepik.com

Etherplay

COLONY

Market Cap Trade Volume Trending Tools Search Currencies

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#	Name	Market Cap	Price	Circulating Supply	Volume (24h)	% Change (24h)	Price Graph (7d)
1	Bitcoin	$20,400,991,388	$1259.79	16,193,962 BTC	$369,070,000	3.12%	
2	Ethereum	$1,808,368,886	$20.23	89,389,128 ETH	$89,605,500	17.04%	
3	Dash	$302,117,939	$42.34	7,134,813 DASH	$71,747,300	-5.85%	
4	Ripple	$229,758,356	$0.006142	37,406,829,143 XRP *	$3,464,060	7.86%	
5	Litecoin	$199,580,104	$3.99	50,022,207 LTC	$9,446,890	4.95%	
6	Monero	$183,420,584	$13.06	14,044,348 XMR	$7,152,450	5.99%	
7	Ethereum Classic	$121,652,696	$1.36	89,350,649 ETC	$3,652,470	0.89%	
8	NEM	$84,862,980	$0.009429	8,999,999,999 XEM *	$570,089	20.18%	
9	MaidSafeCoin	$73,538,409	$0.162497	452,552,412 MAID *	$839,585	1.01%	
10	Augur	$62,610,900	$5.69	11,000,000 REP *	$1,530,200	12.53%	

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www.globalgamejam.org
INNOVATION, EXPERIMENTATION, COLLABORATION

Summary

- Blockchains have immense disruptive power
- Virtual property could be replaced by cryptoproperty
- Blockchain assets can be used by third party projects
- Early adopters will take the risk but reap the benefit
- Judge blockchains on their promise, not their present

Questions?

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http://ownage.io

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