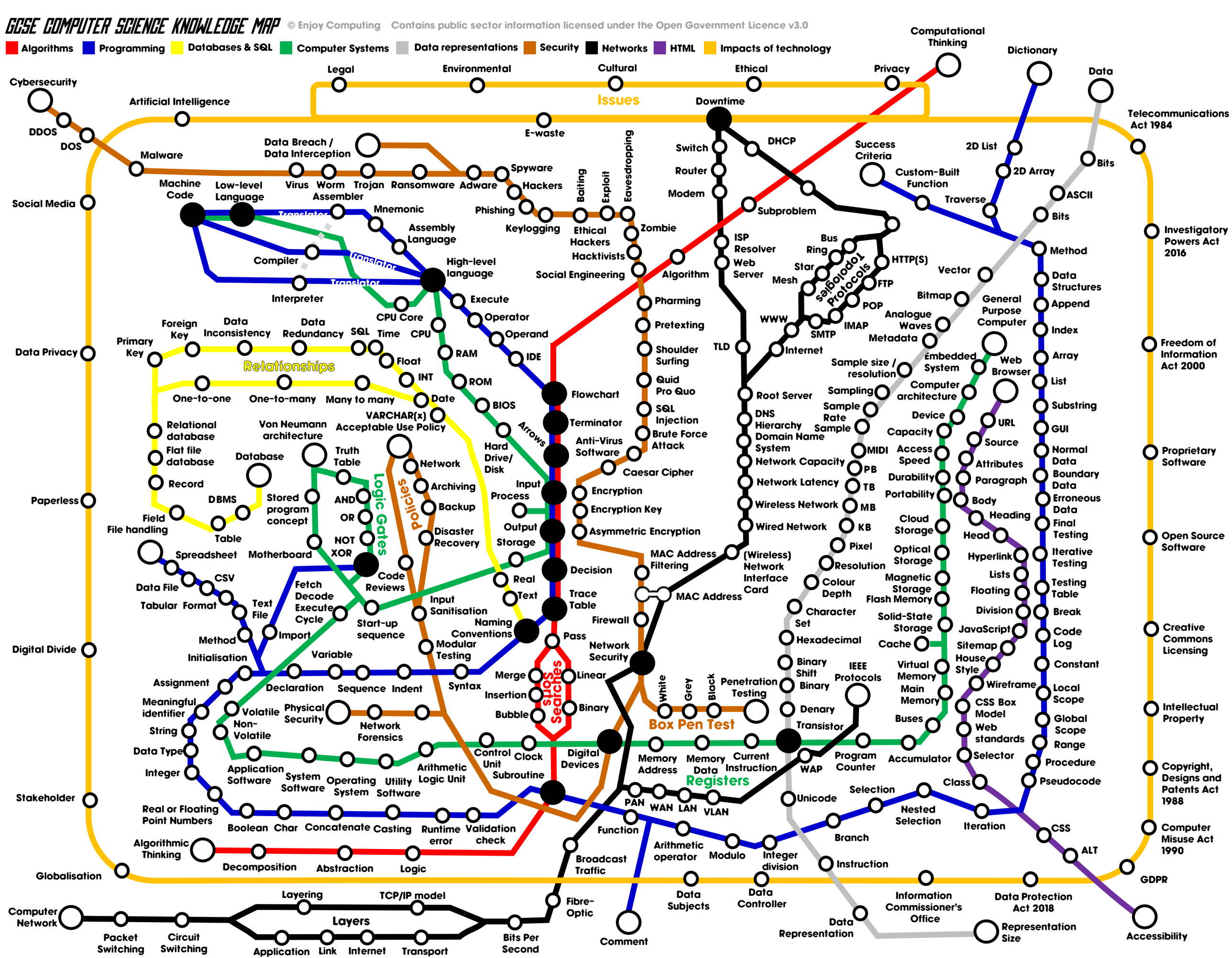
GCSE COMPUTER SCIENCE KNOWLEDGE MAP
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Algorithms
Programming
Databases & SQL
Computer Systems
Data representations
Security
Networks
HTML
Impacts of technology
Computational Thinking
Dictionary
Data
Legal
Environmental
Cultural
Ethical
Privacy
Issues
Cybersecurity
DDOS
DOS
Artificial Intelligence
Downtime
E-waste
Telecommunications Act 1984
Malware
Data Breach / Data Interception
Switch
DHCP
Success Criteria
2D List
2D Array
Bits
Router
Modem
Spyware
Hackers
Baiting
Exploit
Eavesdropping
Custom-Built Function
Traverse
ASCII
Social Media
Machine Code
Low-level Language
Virus
Worm
Trojan
Ransomware
Adware
Assembler
Mnemonic
Phishing
Keylogging
Ethical Hackers
Zombie
Subproblem
Bits
Assembly Language
ISP
Resolver
Web Server
Bus
Ring
Star
Mesh
Topologies
Protocols
HTTP(S)
FTP
POP
IMAP
SMTP
Investigatory Powers Act 2016
Method
Compiler
Translator
High-level language
Hacktivists
Social Engineering
Algorithm
Vector
Data Structures
Interpreter
Execute
Operator
Operand
IDE
CPU Core
Pharming
Pretexting
Shoulder Surfing
Quid Pro Quo
SQL Injection
Brute Force Attack
Bitmap
General Purpose Computer
Analogue Waves
Metadata
Append
Index
Array
List
Substring
GUI
Normal Data
Boundary Data
Erroneous Data
Final Testing
Iterative Testing
Testing Table
Break
Code Log
Constant
Local Scope
Global Scope
Range
Procedure
Pseudocode
Data Privacy
Foreign Key
Primary Key
Data Inconsistency
Data Redundancy
SQL
Time
CPU
RAM
ROM
BIOS
Hard Drive/ Disk
Relationships
Float
INT
Date
VARCHAR(x)
One-to-one
One-to-many
Many to many
Flowchart
Terminator
Anti-Virus Software
Caesar Cipher
Encryption
Encryption Key
Asymmetric Encryption
TLD
Internet
WWW
SMTP
IMAP
Sample size / resolution
Sampling
Sample Rate
Sample
Embedded System
Web Browser
Computer architecture
Device
Capacity
Access Speed
Durability
Portability
Cloud Storage
Optical Storage
Magnetic Storage
Flash Memory
Solid-State Storage
Cache
Virtual Memory
Main Memory
Buses
Root Server
DNS Hierarchy
Domain Name System
Network Capacity
Network Latency
Wireless Network
Wired Network
MIDI
PB
TB
MB
KB
Pixel
Resolution
Colour Depth
Character Set
Hexadecimal
Binary Shift
Binary
Denary
Transistor
URL
Source
Attributes
Paragraph
Body
Heading
Head
Hyperlink
Lists
Floating
Division
JavaScript
Sitemap
House Style
Wireframe
CSS Box Model
Web standards
Selector
Class
Relational database
Flat file database
Record
Field
File handling
Table
DBMS
Database
Von Neumann architecture
Truth Table
Stored program concept
Logic Gates
AND
OR
NOT
XOR
Network
Archiving
Backup
Disaster Recovery
Policies
Input
Process
Output
Storage
Arrows
Decision
Trace Table
Pass
Paperless
Spreadsheet
Data File
CSV
Tabular Format
Text File
Motherboard
Fetch Decode Execute Cycle
Code Reviews
Start-up sequence
Input Sanitisation
Naming Conventions
Modular Testing
Real
Text
Firewall
Network Security
MAC Address Filtering
MAC Address
(Wireless) Network Interface Card
Method
Import
Variable
Initialisation
Assignment
Declaration
Sequence
Indent
Syntax
Sorts
Searches
Merge
Insertion
Bubble
Linear
Binary
White
Grey
Black
Penetration Testing
Box Pen Test
IEEE Protocols
Digital Divide
Meaningful identifier
Volatile
Non-Volatile
Physical Security
Network Forensics
String
Data Type
Integer
Application Software
System Software
Operating System
Utility Software
Arithmetic Logic Unit
Control Unit
Clock
Subroutine
Digital Devices
Memory Address
Memory Data
Current Instruction
Registers
WAP
Program Counter
Accumulator
Selection
Nested Selection
Iteration
CSS
ALT
Stakeholder
Real or Floating Point Numbers
Boolean
Char
Concatenate
Casting
Runtime error
Validation check
PAN
WAN
LAN
VLAN
Unicode
Branch
Freedom of Information Act 2000
Algorithmic Thinking
Decomposition
Abstraction
Logic
Function
Arithmetic operator
Modulo
Integer division
Instruction
Proprietary Software
Globalisation
Broadcast Traffic
Data Subjects
Data Controller
Information Commissioner's Office
Data Protection Act 2018
GDPR
Open Source Software
Computer Network
Layering
TCP/IP model
Layers
Fibre-Optic
Comment
Data Representation
Representation Size
Accessibility
Packet Switching
Circuit Switching
Application
Link
Internet
Transport
Bits Per Second
Creative Commons Licensing
Intellectual Property
Copyright, Designs and Patents Act 1988
Computer Misuse Act 1990