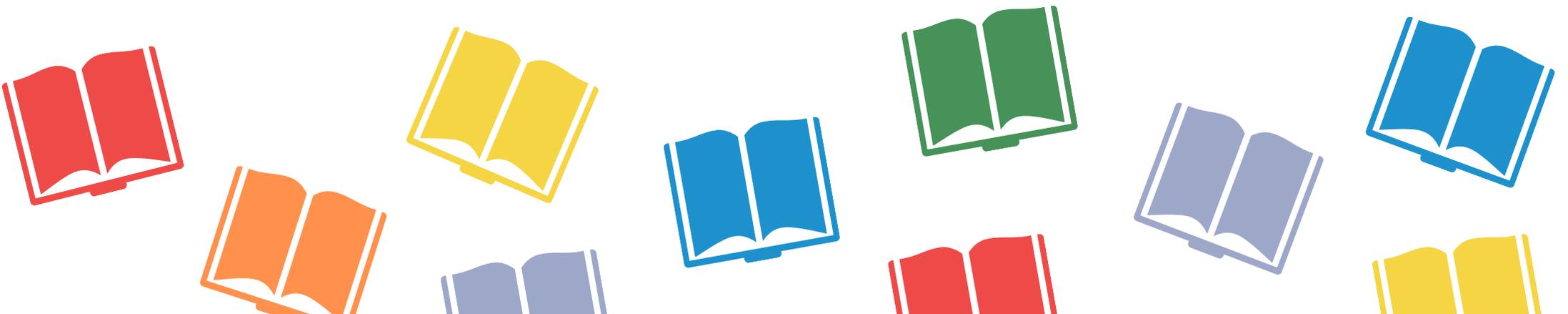




Reading Lists

Computer Science



Reading Lists

Computer Science

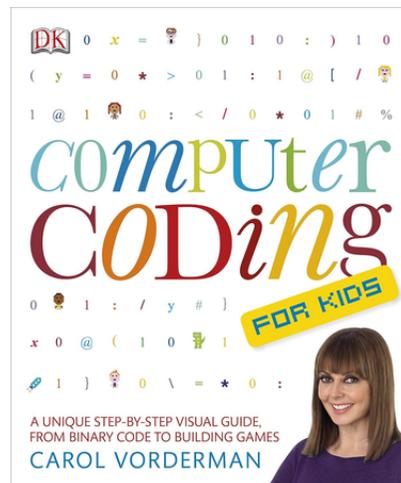
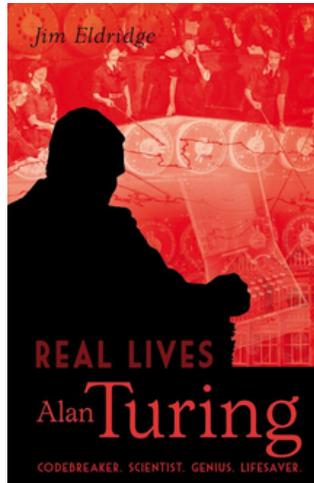
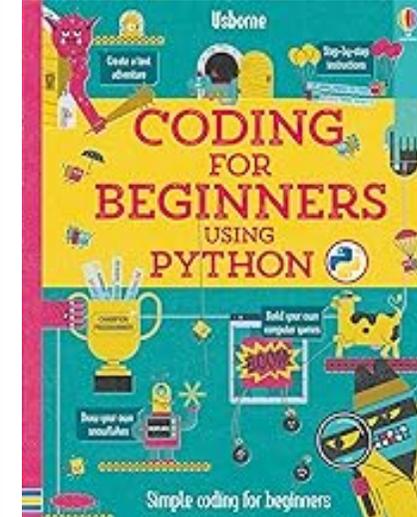
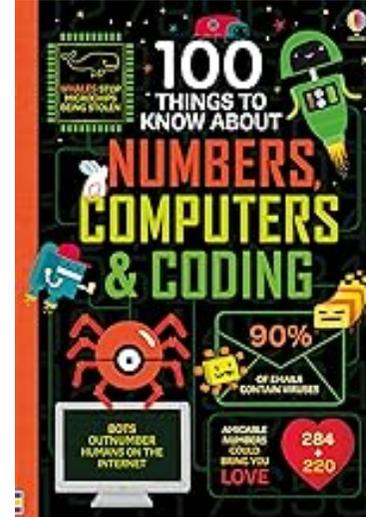
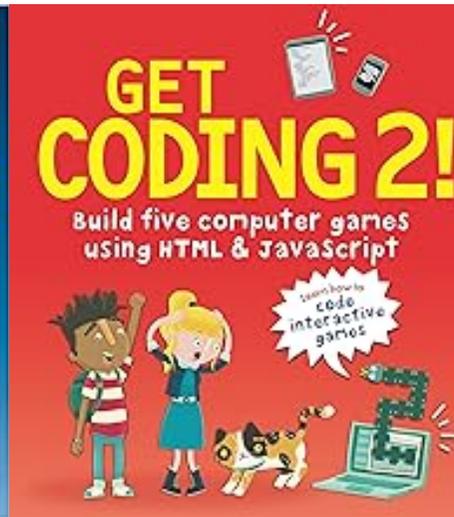
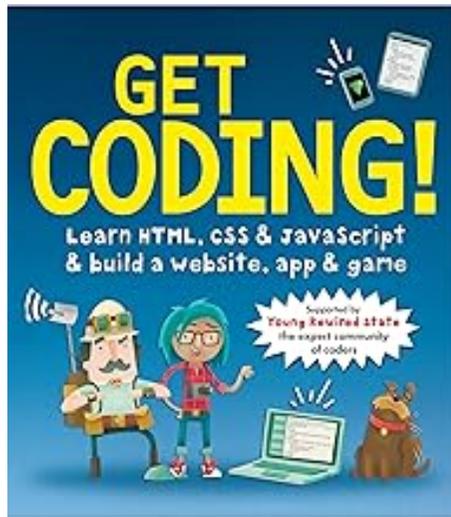


- Books available at Weald are found as subject reading lists on our [online library catalogue](#).
- Speak to your librarian about books available on either Weald site or reserve through the [online library catalogue](#).
- [Kent Libraries digital books](#) are available for free using the Libby app:
 - <https://www.kent.gov.uk/leisure-and-community/libraries/ebooks-eaudiobooks-emagazines-enewspapers>
- All Weald students can join [Kent Libraries](#) and reserve non-fiction to be delivered to any Kent Library for free:
 - <https://kent.spydus.co.uk/cgi-bin/spydus.exe/MSGTRN/WPAC/JOIN>



Computer Science: Key Stage 3

Recommended Reading



Computer Science: Key Stage 3

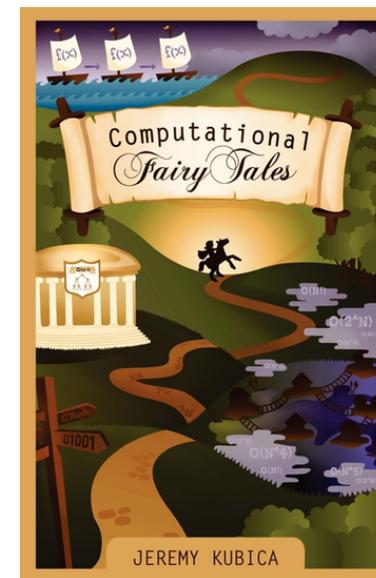
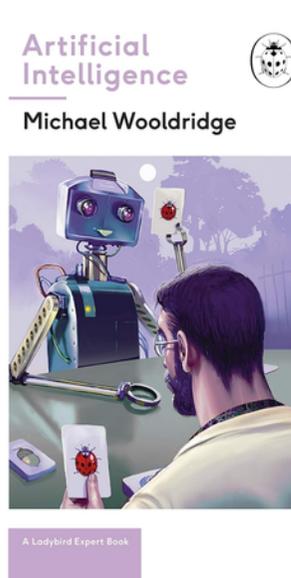
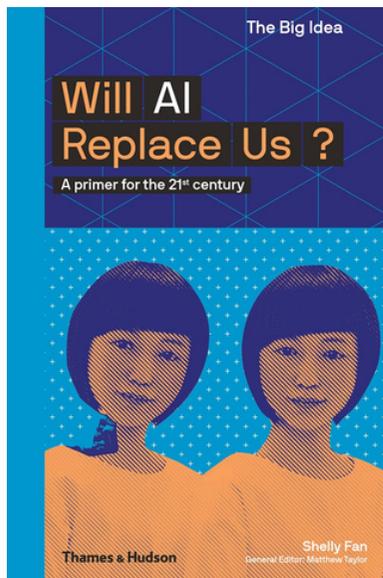
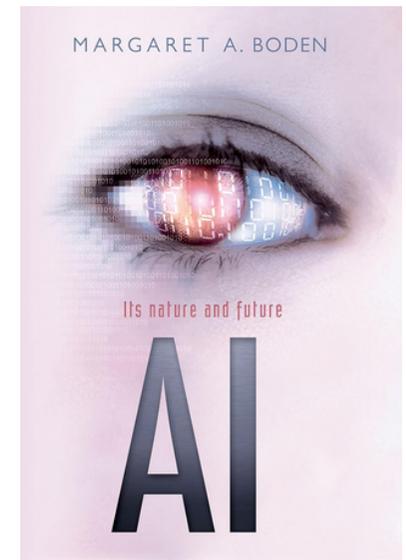
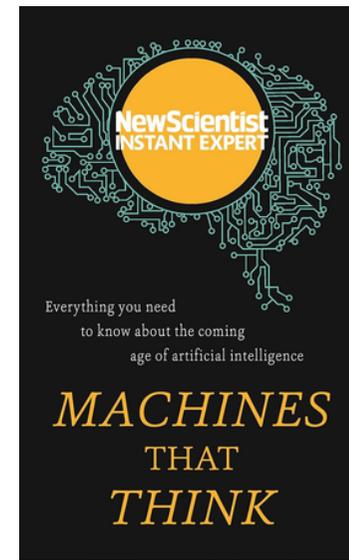
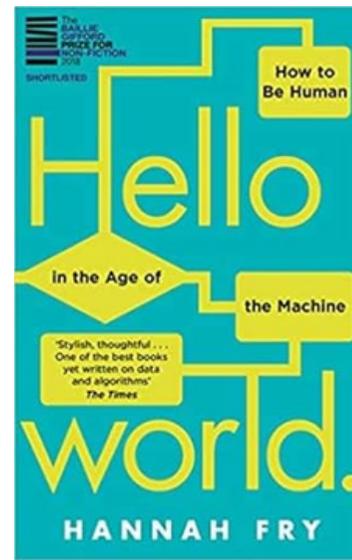
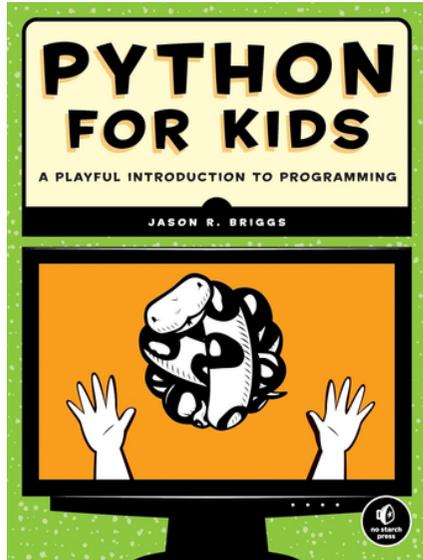
Exploring List

Title	Author	Stocked in Weald Tonbridge?	Shelf location	Stocked in Weald Sevenoaks?	Shelf location	Available as Kent Libraries digital book?	Available as Kent Libraries hardcopy book?
Non-Fiction							
Get Coding!	Whitney, D	<u>Yes</u>	005 WHI	<u>Yes</u>	005 WHI	No	No
Get Coding 2!	Whitney, D	<u>Yes</u>	005 WHI	<u>Yes</u>	005 WHI	No	No
100 Things to know about numbers, computers & coding	James, A. et al	<u>Yes</u>	004	<u>Yes</u>	004	No	<u>Yes</u>
Coding for Beginners using Python	Stowell, L.	<u>Yes</u>	005 STO	No		No	<u>Yes</u>
Computer Coding for Kids	Vorderman, C.	<u>Yes</u>	005.13 VOR	No		No	<u>Yes</u>
Real Lives: Alan Turing	Eldridge, J.	<u>Yes</u>	920 TUR	No		No	No
Fiction							
In the Key of Code	Lucido, A.	No		<u>Yes</u>	FIC LUC	<u>Yes</u>	<u>No</u>



Computer Science: GCSE

Recommended Reading



Computer Science: GCSE

Recommended Reading

Title	Author	Stocked in Weald Tonbridge?	Shelf location	Stocked in Weald Sevenoaks?	Shelf location	Available as Kent Libraries digital book?	Available as Kent Libraries hardcopy book?
Non-Fiction							
Python for Kids	Briggs, J.R.	No		<u>Yes</u>	005.133 BRI	No	No
Get Coding	Whitney, D.	<u>Yes</u>	005 WHI	<u>Yes</u>	005 WHI	No	No
Hello World	Fry, H.	<u>Yes</u>	004 FRY	No		<u>Yes</u>	<u>Yes</u>
Machines That Think	New Scientist	<u>Yes</u>	004	No		No	<u>Yes</u>
AI: Its nature and future	Boden, M.A.	<u>Yes</u>	006 BOD	No		No	No
Will AI Replace Us?	Fan, S.	No		<u>Yes</u>	006.3 FAN	No	No
Artificial Intelligence: Everything you need to know	Wooldridge, M.	No		<u>Yes</u>	004 WOO	No	No
Fiction							
Ready Player One	Cline, E.	<u>Yes</u>	FIC CLI	<u>Yes</u>	FIC CLI	<u>Yes</u>	<u>Yes</u>
Computational Fairy Tales	Kubica, J.	<u>Yes</u>	004 KUB	No		No	No



Computer Science: GCSE

Exploring List

For all sorts of courses:

- <https://www.coursera.org/courses?query=free>

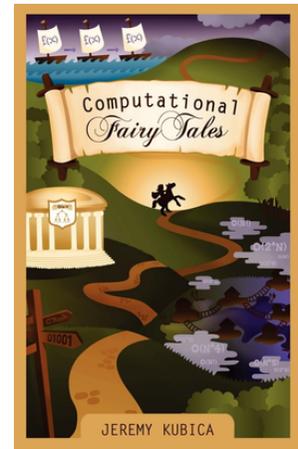
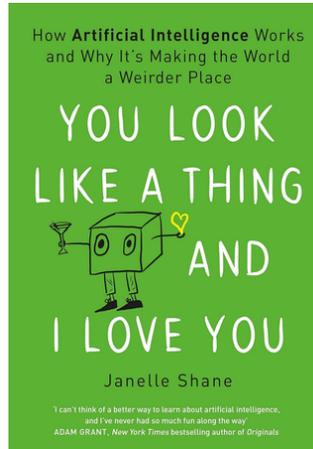
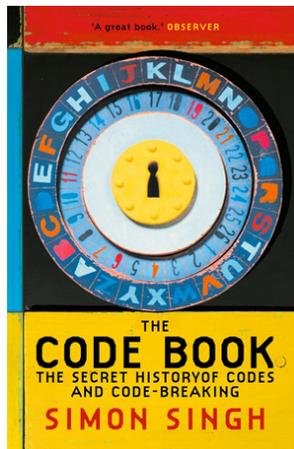
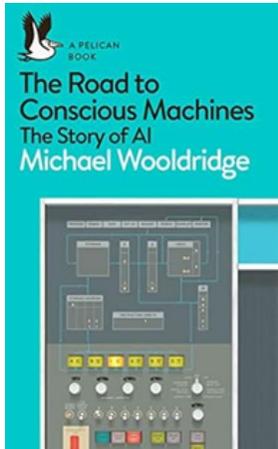
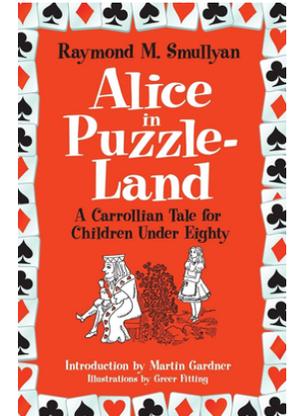
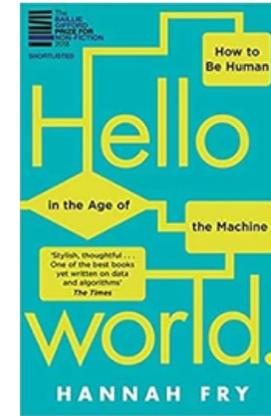
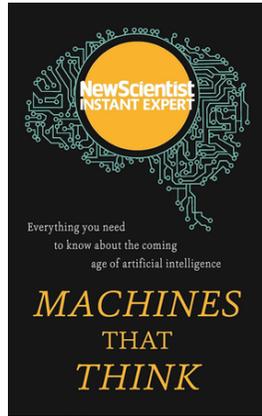
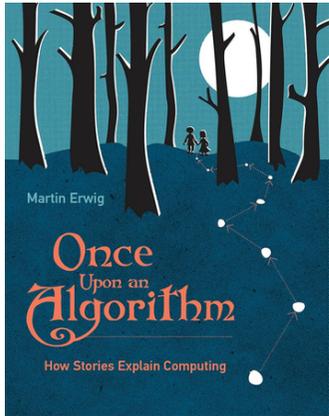
For Computer Science specifically:

- <https://www.w3schools.com/python/?ref=bootvar.com>
- <https://www.learnpython.org/>
- <https://www.youtube.com/playlist?list=PL3GeP3YLZn5ixsnlOlx9tB4v6s-rsw48X>



Computer Science A Level

Recommended Reading



Computer Science A Level

Recommended Reading

University of Oxford Wider Reading List

https://www.cs.ox.ac.uk/admissions/undergraduate/why_oxford/reading.html

Article about bionic limbs



The current state of bionic limbs from the surgeon's viewpoint

Amputations have a devastating impact on...

eor.bioscientifica.com

<https://doi.org/10.1302/2058-5241.5.180038>

Disney robots on TechCrunch

[echcrunch.com/2021/04/23/disney-imagineerings-project-kiwi-is-free-walking-robot-that-will-make-you-believe-in-groot/?guccounter=1&guce_referrer=aHR0cHM6Ly93d3cuZ29vZ2x1LmNvbS8&guce_referrer_sig=AQAAAEkwFL7mBRMOWbKvsNIh2tOfQDfYJbiWfimJVRdoKqv5vjRBPjRzZhWScuOWRyqKdeR2Wz4QuhvwfckK8q334CqQq7E4YIEFWgVGrVclZzChsyJmNnVYstlLqRwjzmzK2jjGJmY19StphzNANvyyTglARMDo3Ezz_1oi_ff8673UU](https://techcrunch.com/2021/04/23/disney-imagineerings-project-kiwi-is-free-walking-robot-that-will-make-you-believe-in-groot/?guccounter=1&guce_referrer=aHR0cHM6Ly93d3cuZ29vZ2x1LmNvbS8&guce_referrer_sig=AQAAAEkwFL7mBRMOWbKvsNIh2tOfQDfYJbiWfimJVRdoKqv5vjRBPjRzZhWScuOWRyqKdeR2Wz4QuhvwfckK8q334CqQq7E4YIEFWgVGrVclZzChsyJmNnVYstlLqRwjzmzK2jjGJmY19StphzNANvyyTglARMDo3Ezz_1oi_ff8673UU)

Article about Quantum Security



Quantum security: The end of security as we know it?

It's a core component of the developing DARQ technologies, but if a quantum computer performs as expected it could wreak havoc on cyber security

IT Pro / Jul 29, 2020

<https://www.itpro.co.uk/security/cyber-security/356584/quantum-security-the-end-of-security-as-we-know-it>

Advances in film technology



The Technological Evolution of Filmmaking and its Relation to Quality ...

The development of motion picture complexity has been driven by a continuing technological evolution...

Inquiries Journal / Aug 1, 2011

<http://www.inquiriesjournal.com/articles/560/the-technological-evolution-of-filmmaking-and-its-relation-to-quality-in-cinema>

Article about gummy finger research/biometric security

https://link.springer.com/content/pdf/10.1007/3-540-36178-2_36.pdf



Computer Science A Level

Recommended Reading

Title	Author	Stocked in Weald Tonbridge?	Shelf location	Stocked in Weald Sevenoaks?	Shelf location	Available as Kent Libraries digital book?	Available as Kent Libraries hardcopy book?
Non-Fiction							
The Code Book	Singh, S.	<u>Yes</u>	652 SIN	No		<u>Yes</u>	<u>Yes</u>
Hello World: How to be human in the age of the machine	Fry, H.	<u>Yes</u>	004 FRY	No		<u>Yes</u>	<u>Yes</u>
The Road to Conscious Machines: The Story of AI	Wooldridge, M.	<u>Yes</u>	004 WOO	No		No	<u>Yes</u>
Hidden Figures	Shetterly, M.L.	<u>Yes</u>	973.049 SHE	<u>Yes</u>	973.049 SHE	No	<u>Yes</u>
Alice in Puzzle-land	Smullyan, R.	<u>Yes</u>	510 SMU	No		No	No
Outnumbered	Sumpster, D.	<u>Yes</u>	004 SUM	No		No	<u>Yes</u>
The Information: A History, a Theory, A Flood	Gleick, J.	<u>Yes</u>	302 GLE	No		<u>Yes</u>	<u>Yes</u>
Code: the Hidden Language of Hardware & Software	Petzold, C.	<u>Yes</u>	005 PET	No		No	<u>Yes</u>
You Look like a Thing and I Love You	Shane, J.	<u>Yes</u>	006 SHA	No		No	<u>Yes</u>
Once Upon an Algorithm	Erwig, M.	<u>Yes</u>	004 ERW	No		No	No
Machines That Think	New Scientist	<u>Yes</u>	004	No		No	<u>Yes</u>
Algorithms to Live By	Christian, B.	<u>Yes</u>	004 CHR	No		<u>Yes</u>	<u>Yes</u>
Fiction							
Ready Player One	Cline, E.	<u>Yes</u>	FIC CLI	<u>Yes</u>	FIC CLI	<u>Yes</u>	<u>Yes</u>
Computational Fairy Tales	Kubica, J.	<u>Yes</u>	004 KUB	No		No	No



Computer Science A Level

Exploring

Free online courses from the Linux Foundation

<https://www.edx.org/school/linuxfoundationx>



Learn to code - <https://www.w3schools.com>



Play around with Amazon services for free - <https://aws.amazon.com/training/> this link takes you to courses but please note, some may require payment.

Learn about Microsoft services - <https://docs.microsoft.com/en-us/learn/azure/> (please note some may require payment)



Web development courses, many of which are free:

<https://www.aws.training/Dashboard/?cta=tctopbanner>

[https://www.edx.org/search?](https://www.edx.org/search?availability=Available%20now&q=Web%20Development&tab=course)

[availability=Available%20now&q=Web%20Development&tab=course](https://www.edx.org/search?availability=Available%20now&q=Web%20Development&tab=course)

<https://developer.mozilla.org/en-US/docs/Learn>

