Free and open source tools for interactive training

EIFL TRAIN-THE-TRAINER BOOTCAMP - NOV. 2023

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Academy of Technical Applied Studies Belgrade

BAUER
CUE — SLOW — REVIEW — PLAY
START STOP
LAP RESET
DATE TIME STOP WATCH
NORMAL - NEG/POS
SHIFT — SET
REC
PLAY
REC REVIEW
POWER
AUTO IRIS
BALANCE
BAUER
VIDEO CAMERA
VCE 266 AF
NEWVICON
V Zoom Lens
AUTO FOCUS
OFF
ON
AUTO/MAN
FADE
AGC
AUTO FOCUS

New media / Digital technologies

AR

QR

VR

MODERN
LIBRARY

New services / Improving

Photo by Pixabay from Pexels: https://www.pexels.com/photo/laptop-technology-ipad-tablet-35550/

Needs of modern user

Photo by Tima Miroshnichenko from Pexels:a https://www.pexels.com/photo/college-students-studying-in-a-library-9572688/

Digital transformation

Digital skills

- Information and data literacy,
- Communication & collaboration,
- Content creation,
- Safety,
- Problem solving

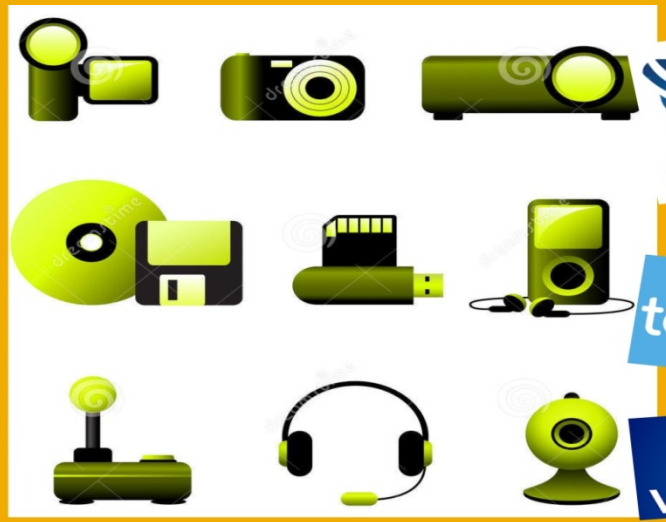
Digital skills

- Information and data literacy,
- Communication & collaboration,
- Content creation
- Safety,
- Problem solving

Multimedia:
Audio
Video
Poster
Animation
AR (Augmented reality)
VR (Virtual reality)
QR technology
Marketing, Social network

Multimedia

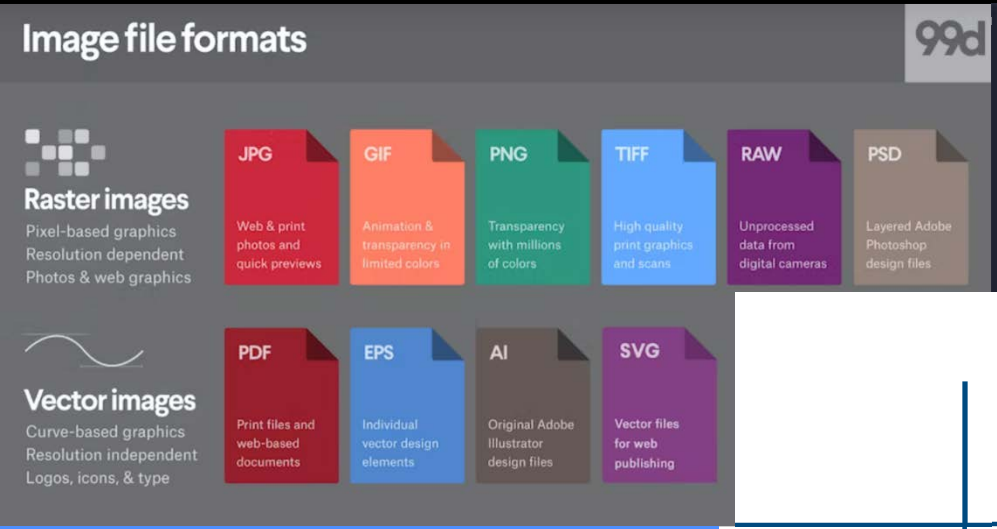
Basic multimedia formats

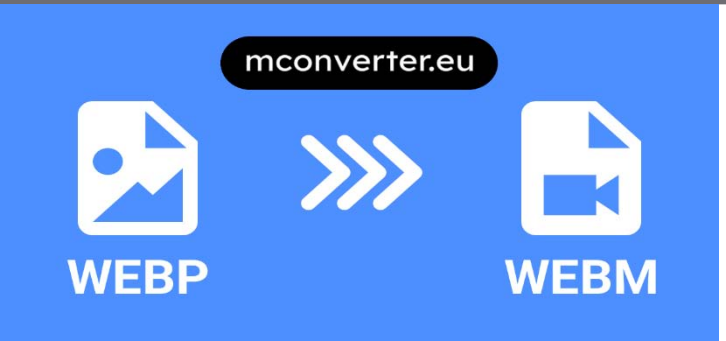


Gadgets/Devices

Programs, apps, tools..

Formats

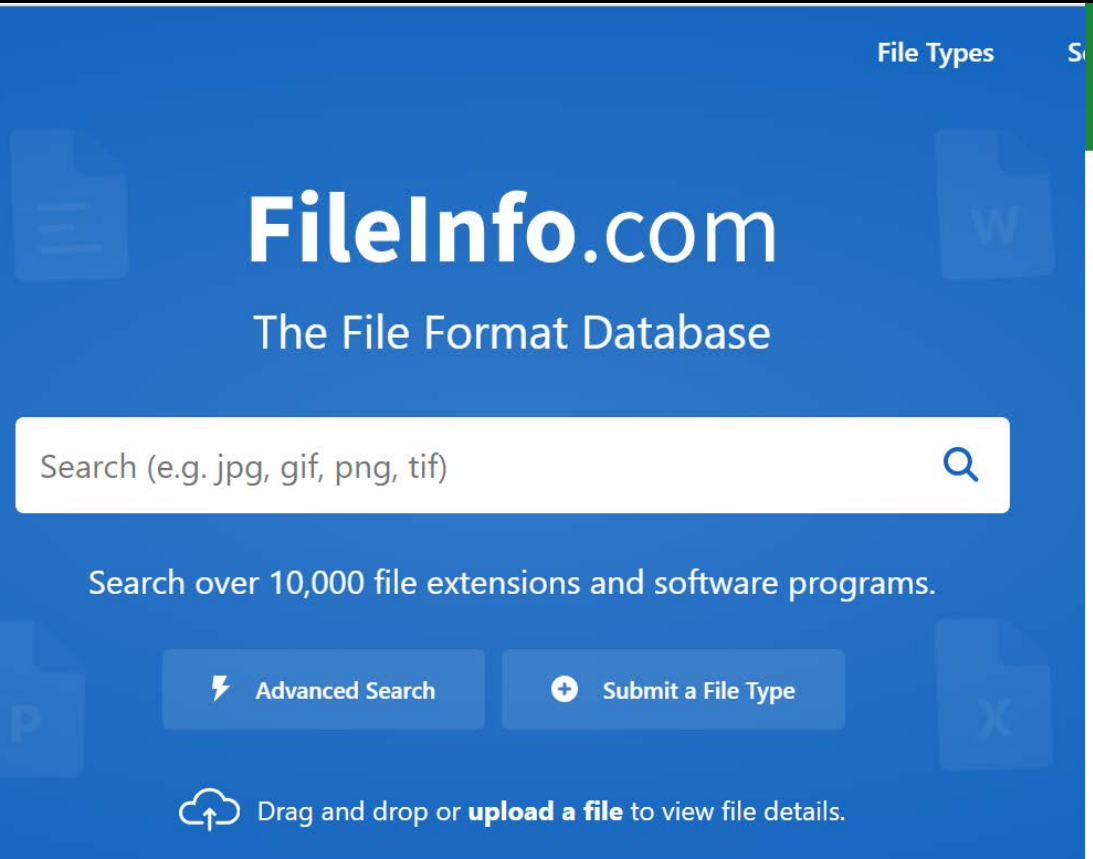


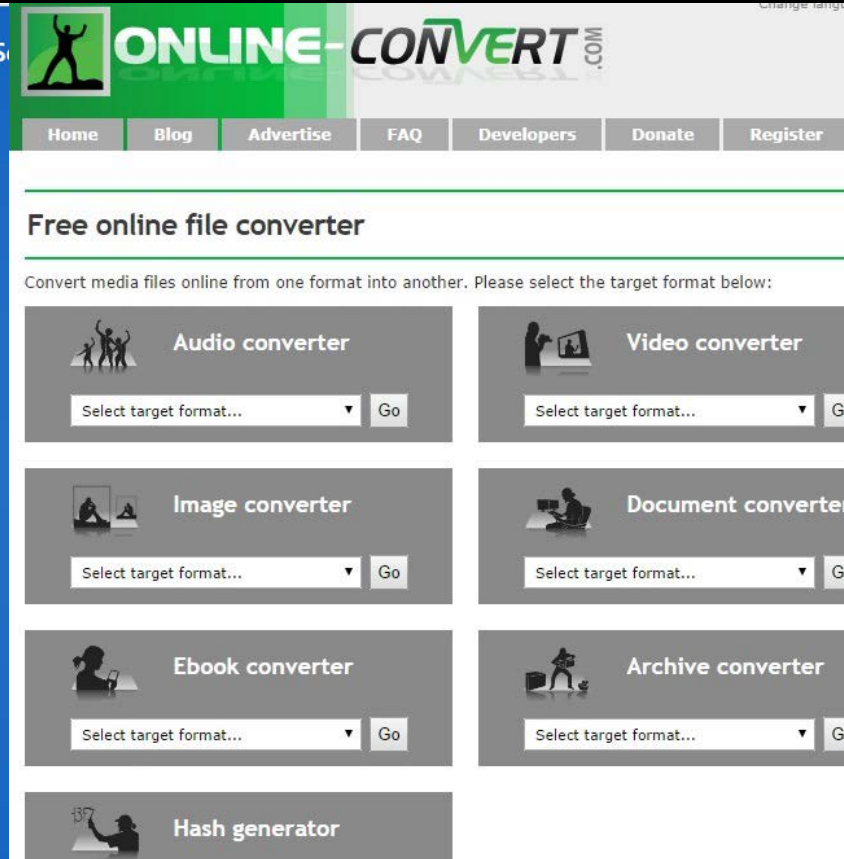


TOP AUDIO FORMATS (QUALITIES)

	MP3 lossy	AAC lossy	FLAC lossless	WAV lossless	RAW lossless	AAX lossy
quality			✓	✓	✓	
low weight	✓	✓				✓
compatibility	✓	✓	✓	✓		
metadata	✓	✓			✓	

Formats


File Types
FileInfo.com
The File Format Database
Search (e.g. jpg, gif, png, tif)
Search over 10,000 file extensions and software programs.
Advanced Search
Submit a File Type
Drag and drop or upload a file to view file details.


ONLINE-CONVERT.COM
Home
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Advertise
FAQ
Developers
Donate
Register
Free online file converter
Convert media files online from one format into another. Please select the target format below:
Audio converter
Select target format...
Go
Video converter
Image converter
Document converter
Ebook converter
Archive converter
Hash generator

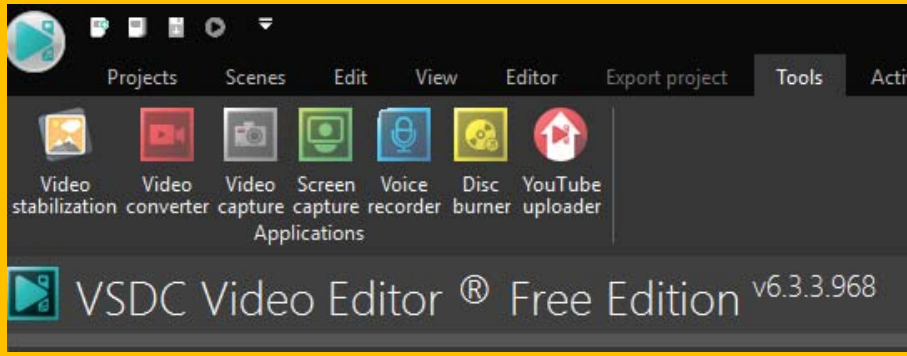
BOOK TRAILERS
VIDEO INSTRUCTIONS
VIDEO TUTORIALS
PROJECTS
MARKETING

VIDEO ABSTRACT
VIDEO CV

SCREEN VIDEO RECORDING SOFTWARE

OBS Studio

SCREENCAST-O-MATIC



Video tutorial – Desktop recording

OPEN AND FREE SOFTWARE

blender™

kdenlive

Canva

Video – Book trailer

Video abstract / Video CV

New Journal of Physics
The open access journal at the forefront of physics

Email alert | RSS feed | Deutsche Physikalische Gesellsc

New Journal of Physics > Volume 12 > August 2010
Lucian Livadaru *et al* 2010 *New J. Phys.* **12** 083018 doi:10.1088/1367-2630/12/8/083018

Dangling-bond charge qubit on a silicon surface

Lucian Livadaru[1,2,5], Peng Xue[3,4], Zahra Shaterzadeh-Yazdi[3], Gino A DiLabio[1], Josh Mutus[2], Jason L Pitters[1], Barry C Sanders[3] and Robert A Wolkow[1,2]
Show affiliations

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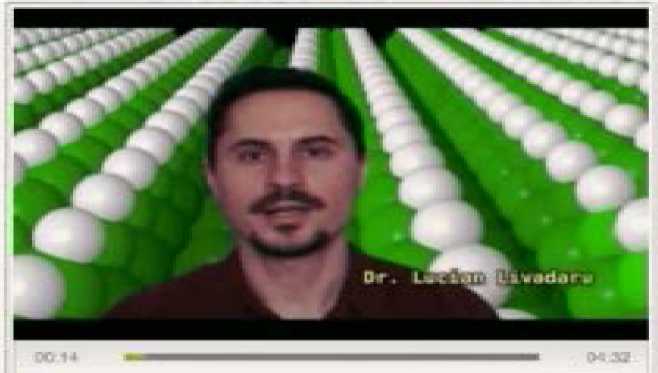
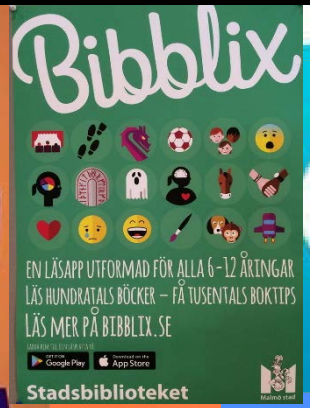
Abstract | References | Cited By | Metrics

Two closely spaced dangling bonds (DBs) positioned on a silicon surface and sharing an excess electron are revealed to be a strong candidate for a charge qubit. Based on our study of the coherent dynamics of this qubit, its extremely high tunneling rate $\sim 10^{14}\,s^{-1}$ greatly exceeds the expected decoherence rates for a silicon-based system, thereby overcoming a critical obstacle of charge qubit quantum computing (QC). We investigate possible configurations of DB qubits for QC devices. A first-order analysis of coherent dynamics of DBs shows promise in this respect.



Apps...

Kahoot!


Bibblix
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LÄS HUNDRATALS BÖCKER – FÅ TUSENTALS BOKTIPS
LÄS MER PÅ BIBBLIX.SE
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App Store
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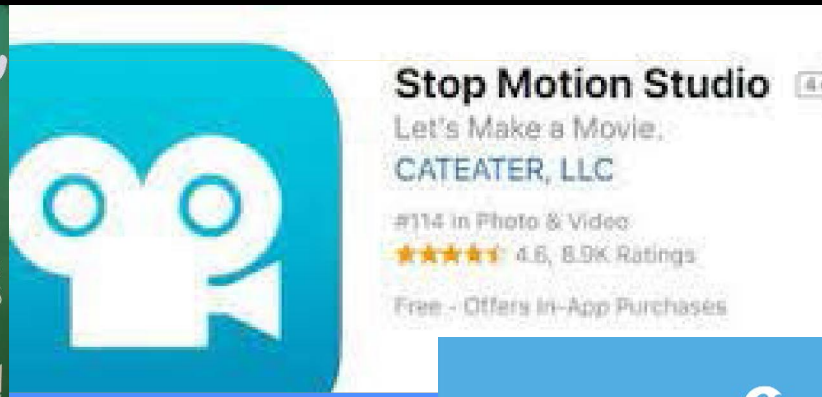

Stop Motion Studio
Let's Make a Movie.
CATEATER, LLC
#114 in Photo & Video
4.6, 8.9K Ratings
Free - Offers In-App Purchases

YouCut
Podar • Música • Filtrar • Efecto
• Editor de video profesiona
Amor

Prezi

tellagami

Puppet
Made With Pals
2

ANIMATIONS

ANIMATIONS

AR (Augmented reality)

https://www.sunrise.ch/en/residential/world-of-apple/augmented-reality.html

AR (Augmented reality)

HALO AR

HALO AR

Virtual Reality - VR

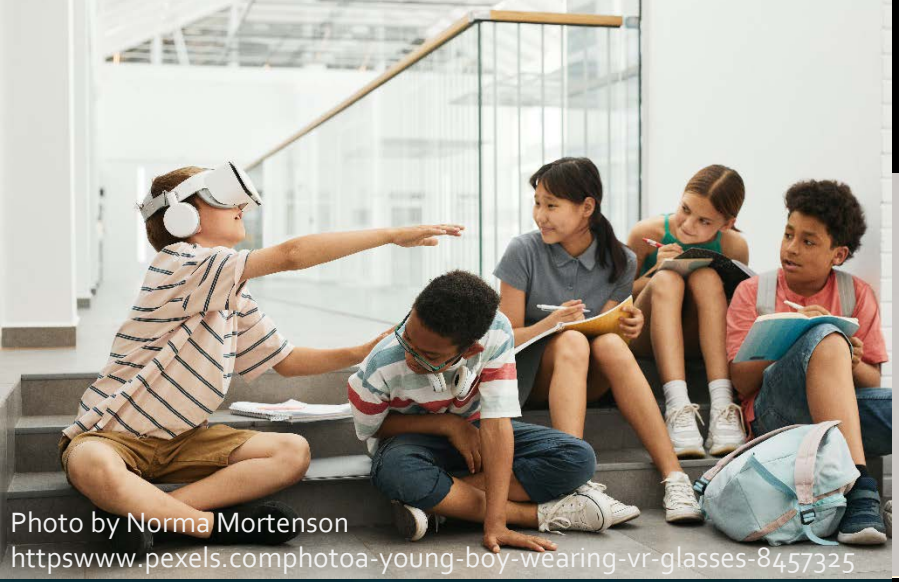


Photo by Norma Mortenson
httpswww.pexels.comphotoa-young-boy-wearing-vr-glasses-8457325

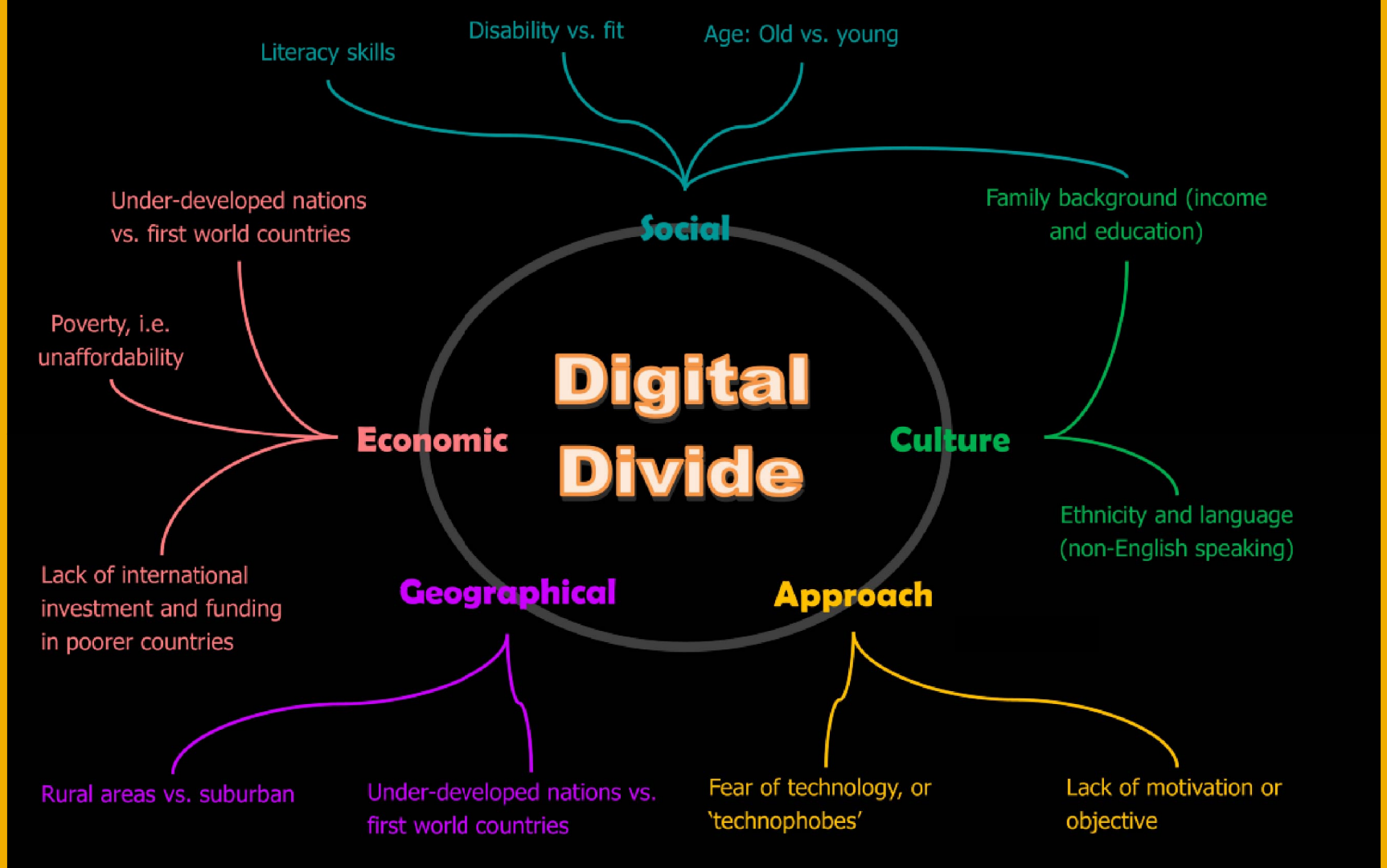
Photo by fauxels from Pexels:

Libraries promote

Digital Ethics
Equity
Participation
Collective experience
Diversity
Democratic values

Libraries help with

Inclusivness
Job seeking
Career and College prep
Mental health
Digital divide


Literacy skills
Disability vs. fit
Age: Old vs. young
Social
Under-developed nations vs. first world countries
Family background (income and education)
Poverty, i.e. unaffordability
Digital Divide
Economic
Culture
Ethnicity and language (non-English speaking)
Lack of international investment and funding in poorer countries
Geographical
Approach
Rural areas vs. suburban
Under-developed nations vs. first world countries
Fear of technology, or 'technophobes'
Lack of motivation or objective

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