

CYBERSPACE

What is it?

The term "cyberspace" is characterized by a multiplicity of meanings [...]. Three levels of cyberspace are identified, the first being ontology, which includes notions of cyberspace as a paraspaces or nonspaces, as well as the concept of cyberspacetime. The second level includes building blocks such as physical conceptual and perceptual space or virtual space. The third level is that of synthesis, including varieties of cyberspace such as media space, aesthetic space, dataspace, and personal and social space.

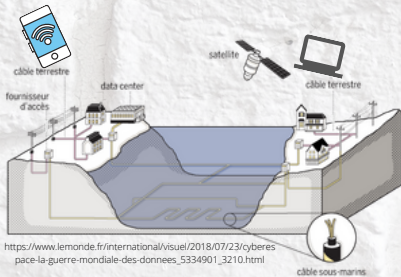
Lance Strate (1999) *The varieties of cyberspace: Problems in definition and delimitation*, *Western Journal of Communication*, 63:3,382-412, DOI: 10.1080/10570319909374648

The Department of Defense (DOD) defines cyberspace as a global domain within the information environment consisting of the interdependent network of information technology infrastructures and resident data, including the Internet, telecommunications networks, computer systems, and embedded processors and controllers.

<https://fas.org/sgp/crs/natsec/IF10537.pdf> (january 2020)

There are at least 3 layers or levels

Physical layer



Logical layer



Social, semantic or cognitive layer



Hérissou Audrey, « Le cyberspace : espace de confrontation », *Stratégie*, 2019/3 (N° 119), p. 55-60. DOI : 10.3917/strat.123.0055. URL : <https://www.cairn.info/revue-strategie-2019-3-page-55.htm> - Author's translation
<https://acqnotes.com/acqnote/careerfields/cyberspace#:~:text=Cyberspace%20can%20be%20viewed%20as,cyber%20persona%2C%20and%20persona>.

The countries of the original triad in technological terms and the geographical permanence of the cables...

Nicolas Mazzuchi-FRS/CSFRS/<https://www.youtube.com/watch?v=-2ieV7T4Uxw&t=2673s> - Author's translation



and the 2 others...



Main non-state actors



Some numbers

Landmarks : GAFAM and BATHX, majors digital actors

Since the end of 2018, each minute :

	Setting-up	Head Office	Market Capitalization (\$ billion- feb. 2020)	Primary Activity	Employees*
	1998	Mountain View (Ca)	852	search engine	114 096
	1976	Cupertino (Ca)	1198	computers	137 000
	2005	Menlo Park (Ca)	488	social networks	44 942
	1994	Seattle (Wa)	946	e-commerce	798 000
	1975	Redmond (Wa)	1176	operating system	151 163
	2000	Pékin	46	search engine	45 887
	1999	Hangzhou	525	e-commerce	101 958
	1998	Shenzhen	458	social networks	62 885
	1987	Shenzhen	N.a.	TIC	194 000
	2010	Pékin	37	smartphones	18 170

- 2.5 million pieces of content are shared by FaceBook users
- 200 million requests are managed by Google
- 200,000 new photos are posted on Instagram
- 72 hours of news videos are posted on YouTube
- 50,000 acts are downloaded from the Apple site
- 200 million emails are sent
- \$80,000 in revenue is generated by Amazon