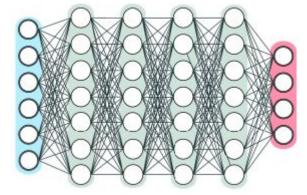


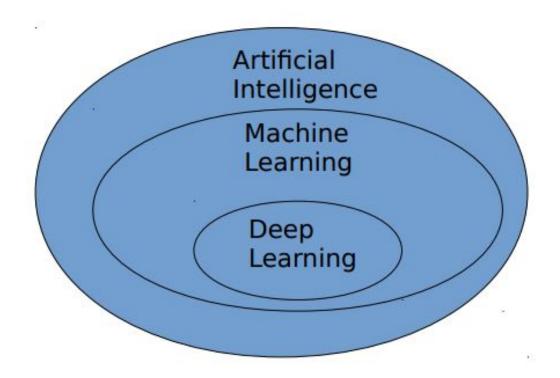
Czy przemysł nadąża za AI?

Głębokie sieci neuronowe





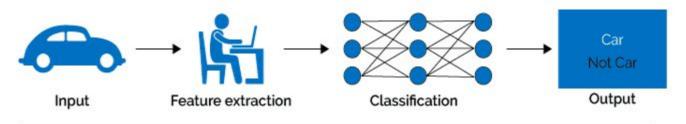




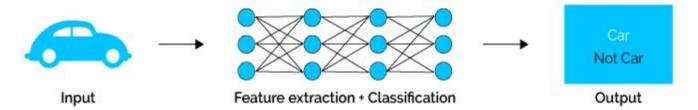




Machine Learning



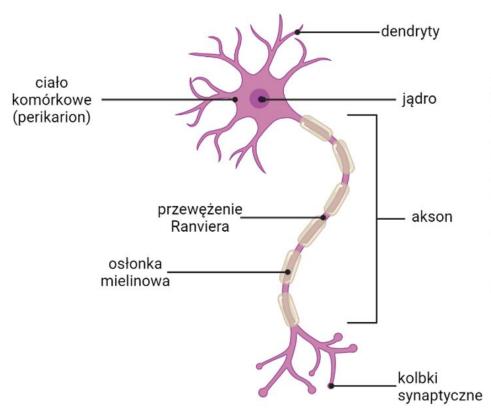
Deep Learning

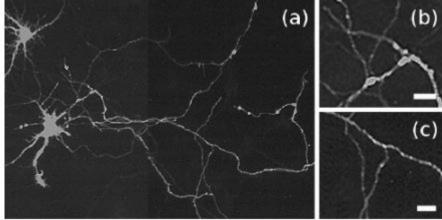






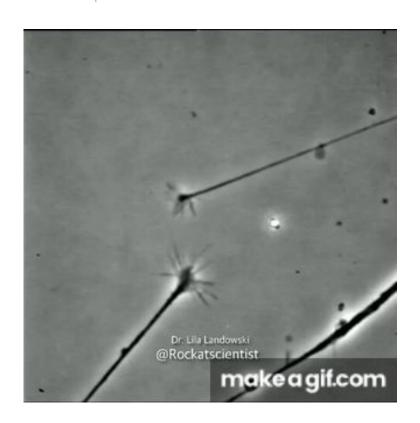


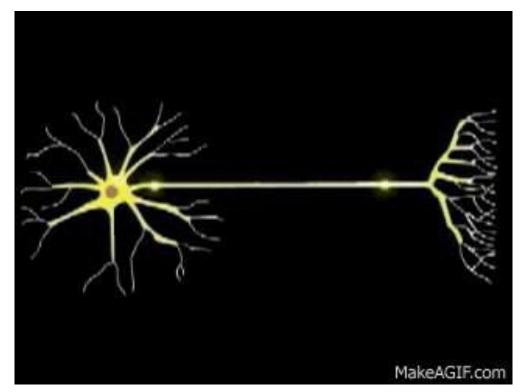






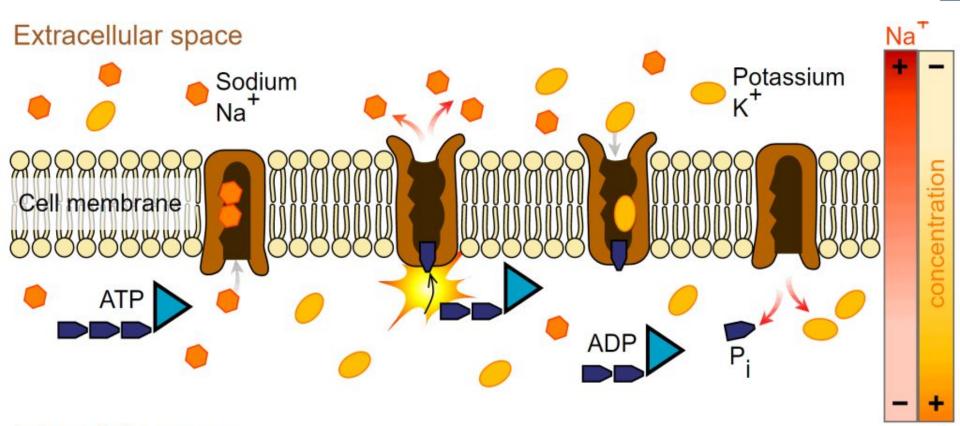




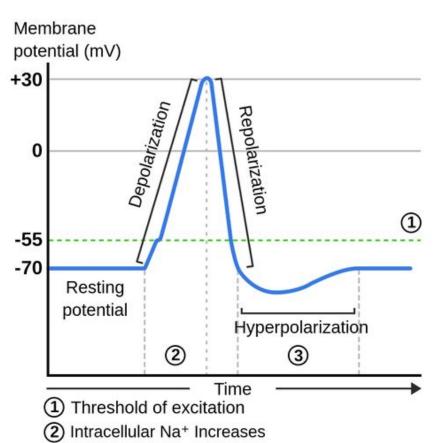






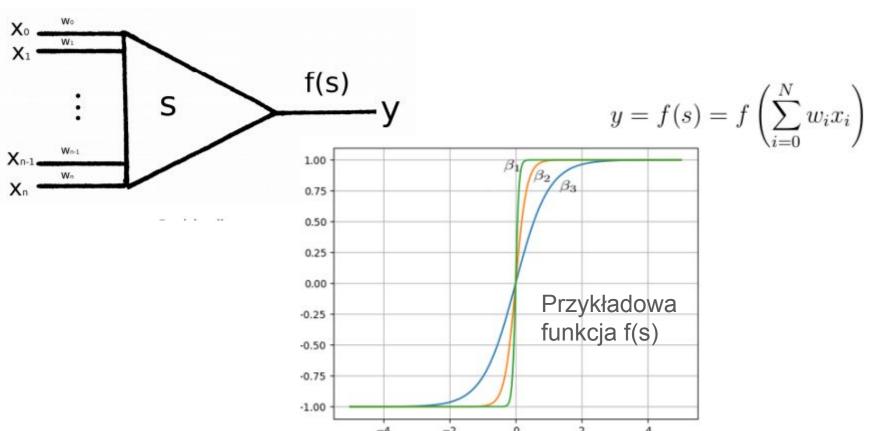






③ Extracellular K+ increases



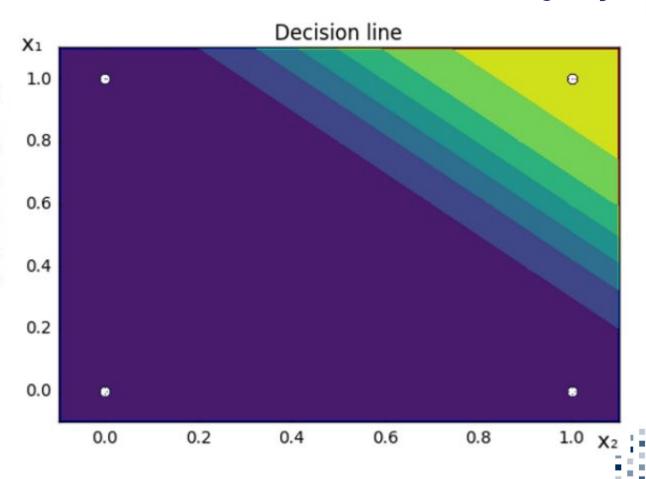






AND gate

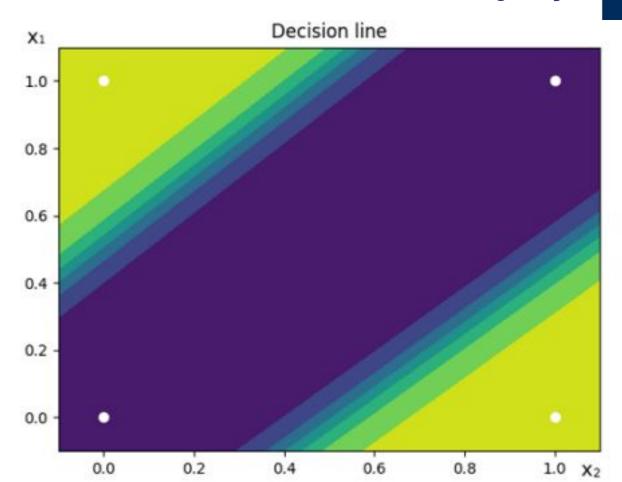
Input A	Input B	Output
0	0	0
1	0	0
0	1	0
1	1	1



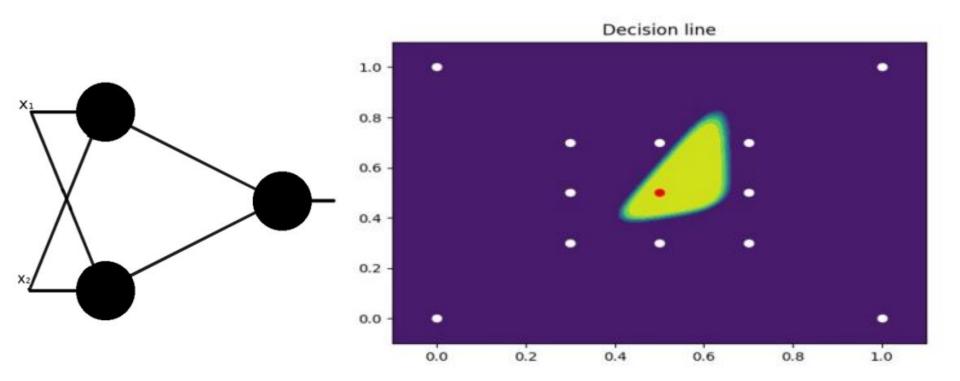


EX-OR gate

Input A	Input B	Output
0	0	0
1	0	1
0	1	1
1	1	0

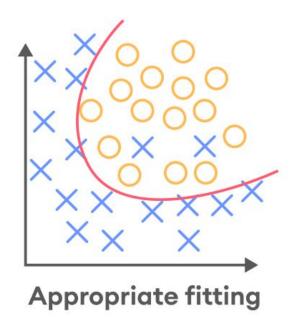


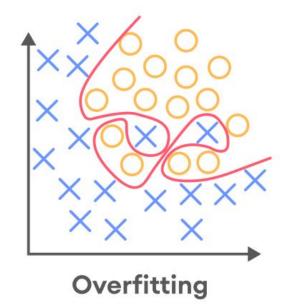






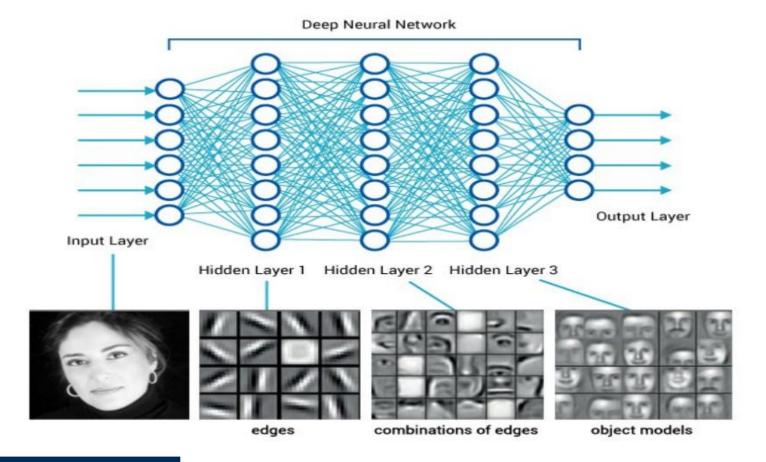














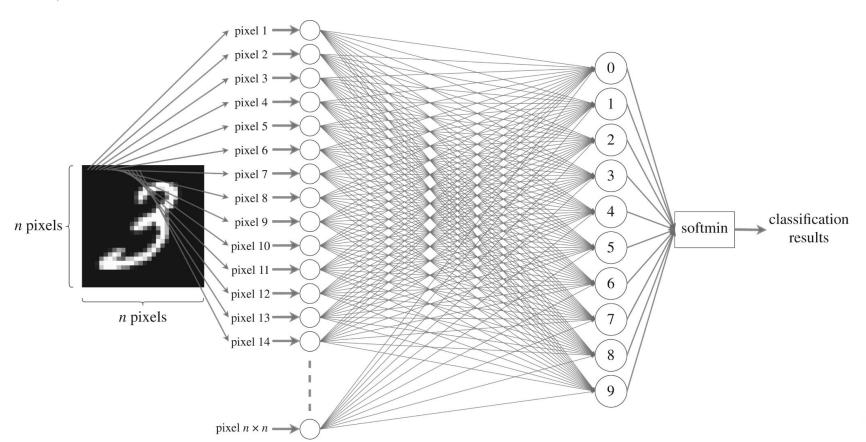


- Klasyfikatory
- Autoenkodery
- GAN (Generatywna sieć przeciwstawna)
- Sieci rekurencyjne
- Sieci konwolucyjne
- etc.



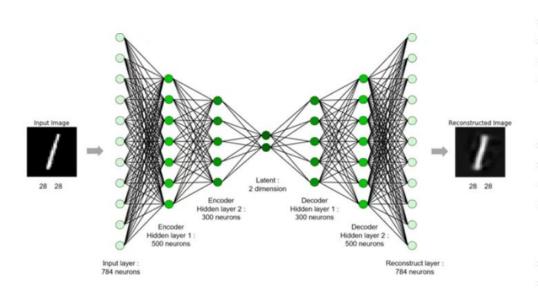


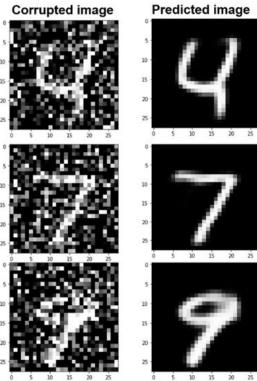
Klasyfikatory



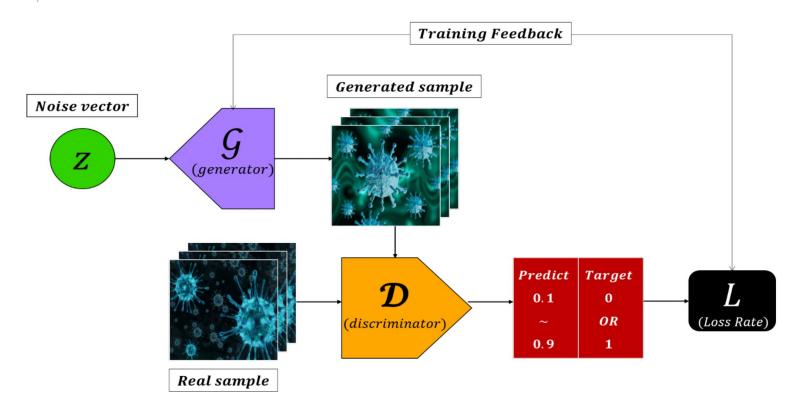


Autoencodery





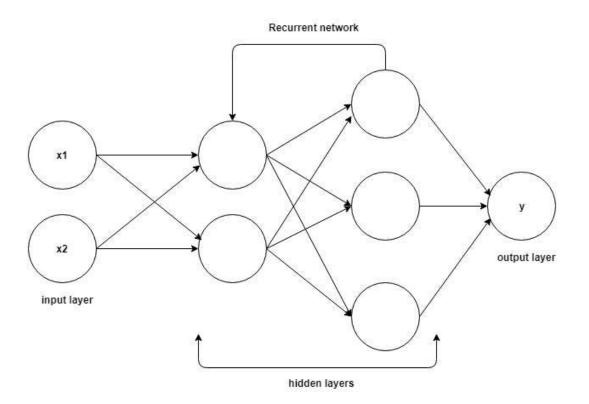








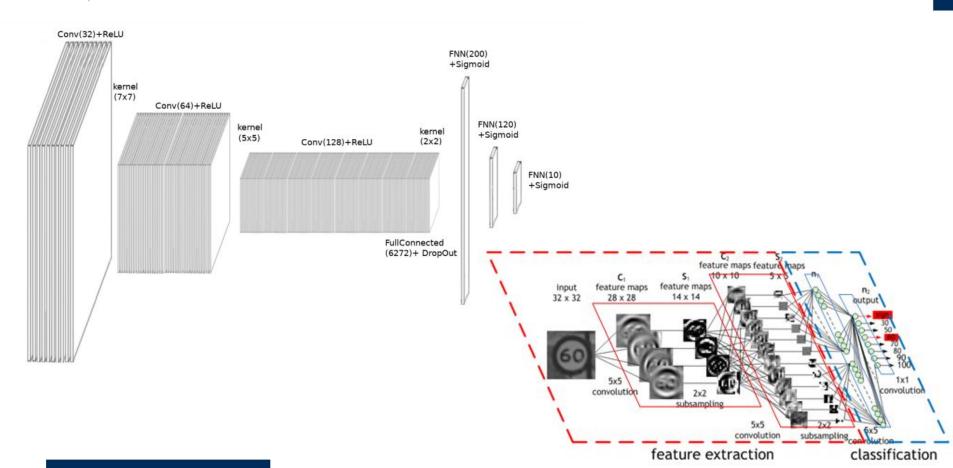
Sieci rekurencyjne







Sieci konwolucyjne





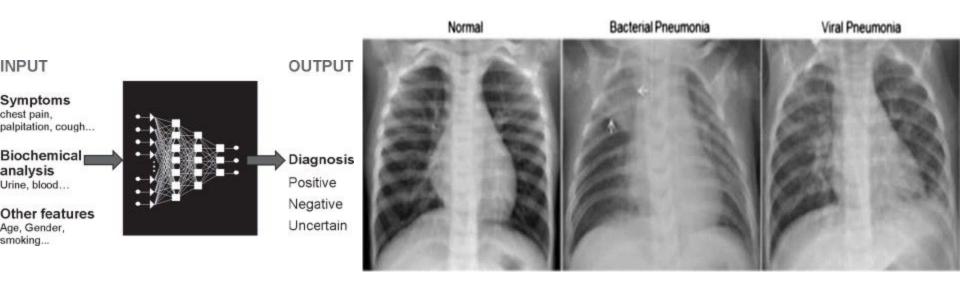


- Medycyna (Analiza obrazowania, diagnostyka)
- Przemysł (Analiza i optymalizacja procesów)
- Nauka (Analiza danych eksperymentalnych, wykrywanie anomalii, odszumianie danych, symulacje komputerowe)
- Życie codzienne (Internet of Things, Internet, algorytmy rekomendujące, tworzenie treści)







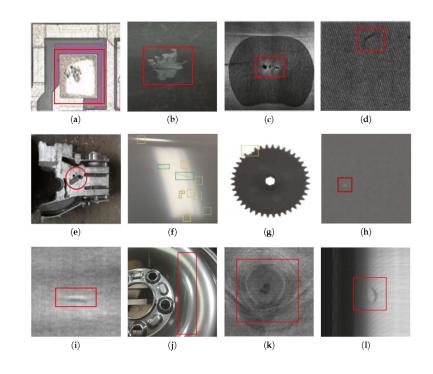








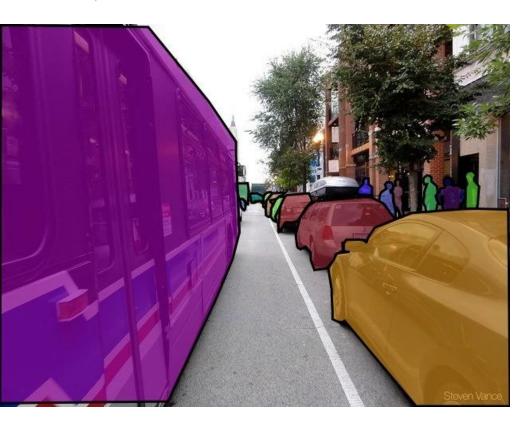
- Przemysł finansowy
- Medyczny
- Energetyczny
- Transportowy
- Telekomunikacyjny
- Rozpoznawanie defektów na liniach produkcyjnych
- Robotyka; zarządzanie ruchem, danymi z sensorów…
- Ocena, diagnostyka

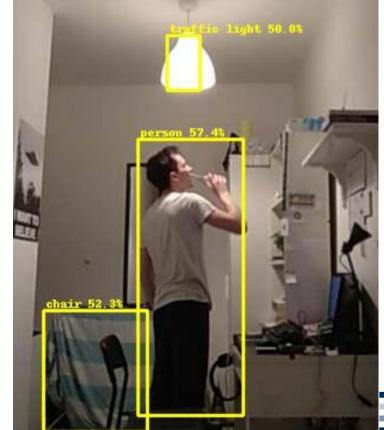






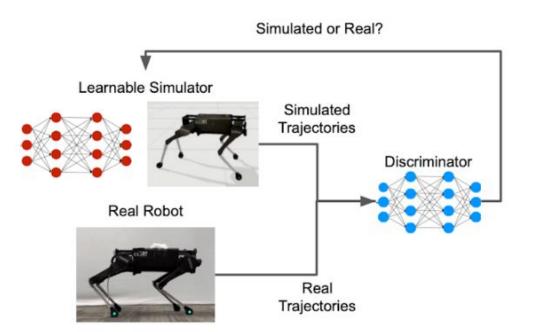


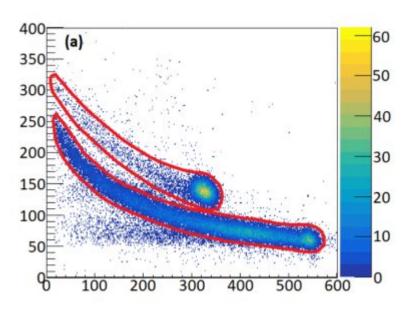








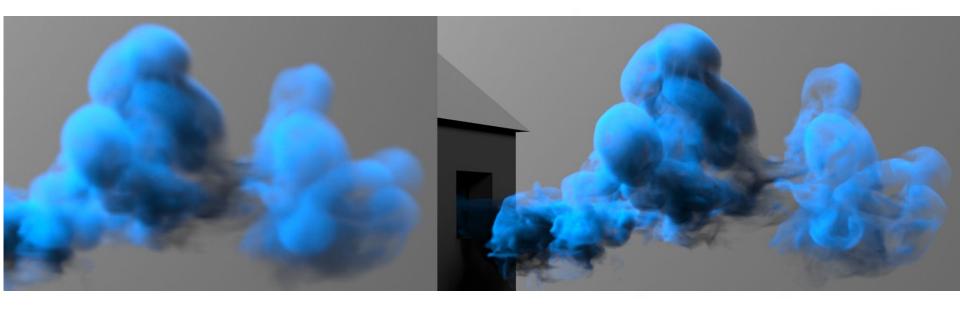
































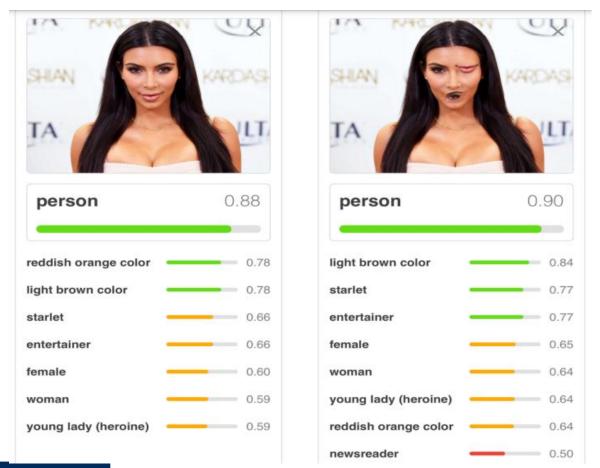






Błędy

UNIVERSITY OF SILESIA IN KATOWICE











(Airplane)



















Deer (Dog)

Frog (Dog)

Frog (Truck)

Dog (Cat)

Bird (Airplane)











Horse (Cat)

Ship (Truck)

Horse (Automobile)

Dog (Horse)

Ship (Truck)





Dziękuję za uwagę

Bibligrafia i materiały dydaktyczne cooming soon



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