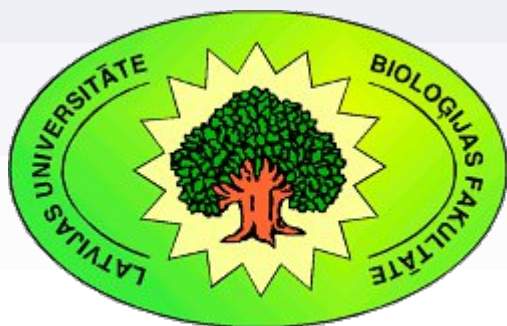


# Bioloģijas laboratorijas eksperimenta veidošanas un demonstrēšanas metodika Biol4296

## Iekārtu savienošana



*Kārlis Kalviškis, LU Bioloģijas fakultāte*

*2014. gada 15. oktobrī*

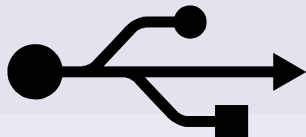
# Kopēji ieteikumi

- Pirms sāk kaut ko vienot, iepazīsties ar iekārtu aprakstiem.
- Pievienojot iekārtas nevajag lietot pārmērīgu spēku – iespējams, ka esi izvēlējies nepareizu kabeli!
- Pēc izskata ne vienmēr var pateikt, ko iespējams pievienot dotajam datoram.

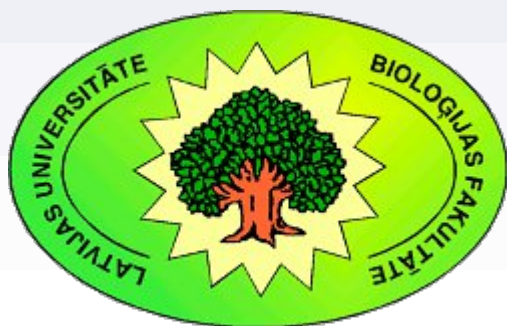
# Atrunas

- Šeit apskatītie pieslēguma veidi ir tikai maza daļiņa no tiem, ar kādiem var nākties sastapties.

# Bioloģijas laboratorijas eksperimenta veidošanas un demonstrēšanas metodika Biol4296



USB

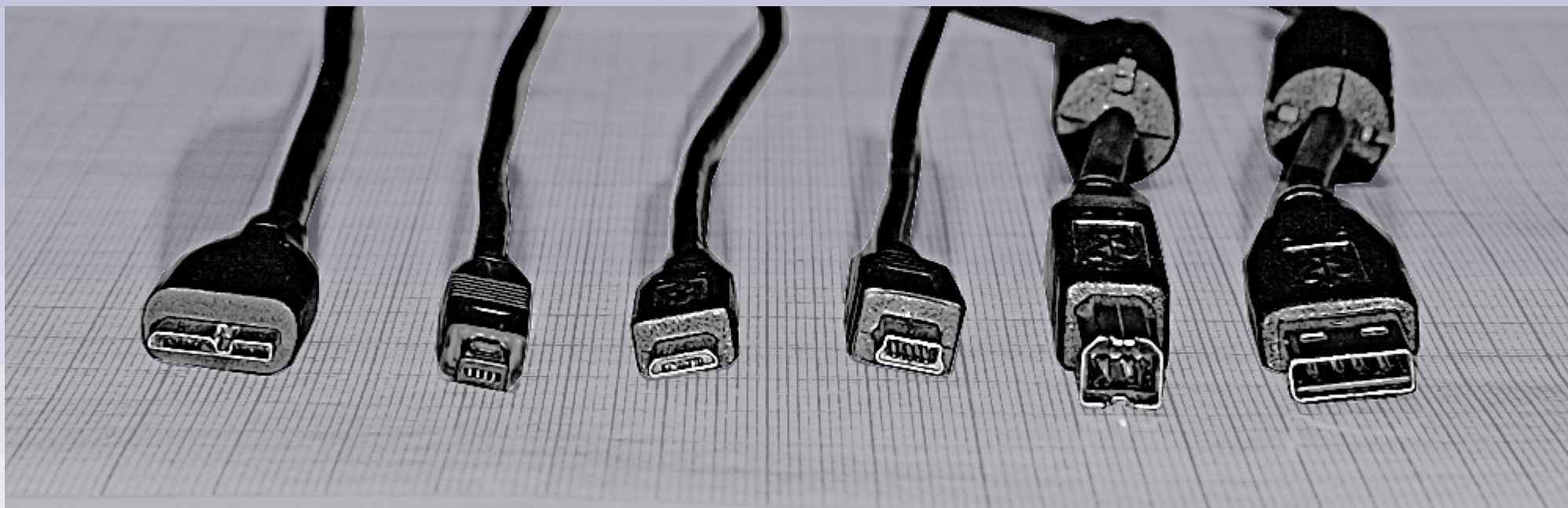


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*2014. gada 15. oktobrī*



# USB



*USB 3*

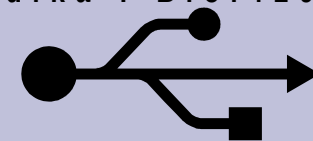


<http://www.techworld.com/cmsdata/news/3210229/USB%20%20cable.jpg>



# USB ar papildus barošanu





# USB -> COM: (RS-232)



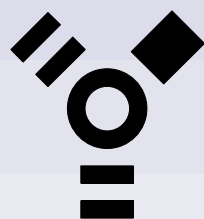


# USB -> LPT: (IEEE 1284)

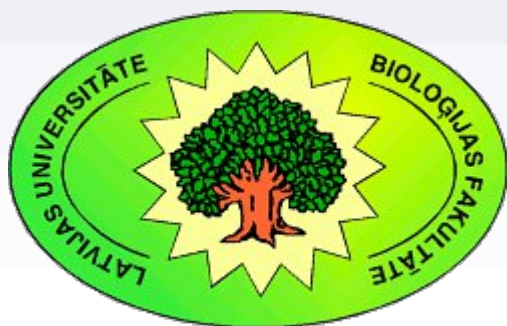




# Bioloģijas laboratorijas eksperimenta veidošanas un demonstrēšanas metodika Biol4296

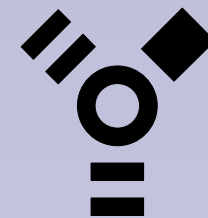


Firewire (IEEE 1394)



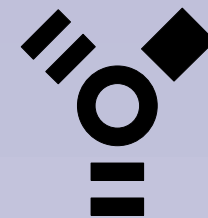
*Kārlis Kalviškis, LU Bioloģijas fakultāte*

*2014. gada 15. oktobrī*



# Firewire (IEEE 1394)





# Firewire (IEEE 1394)



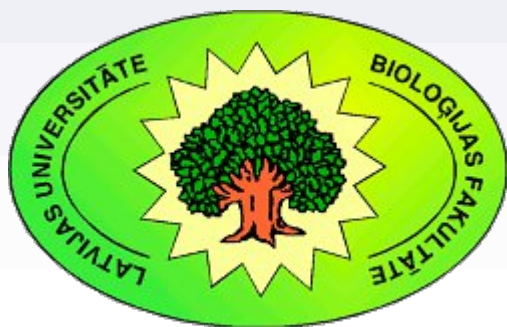
*Nav  
barošanas !*



# Bioloģijas laboratorijas eksperimenta veidošanas un demonstrēšanas metodika Biol4296

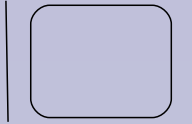


Datora monitori



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# Monitoru porti

*VGA*



*Mini-VGA*



*DVI*



*Mini-DVI*



*Micro-DVI*

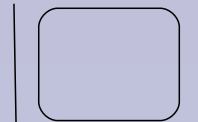


*Display Port*

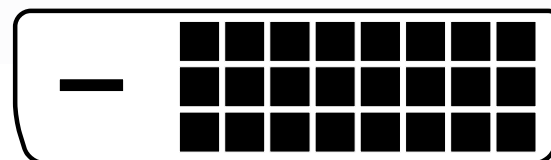
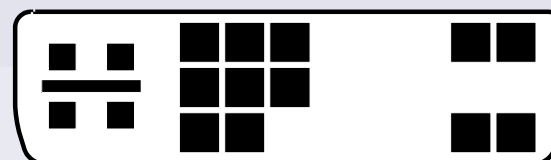
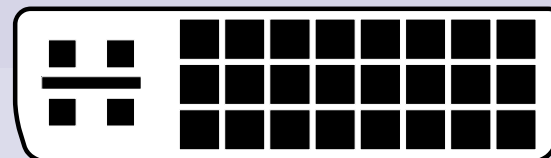
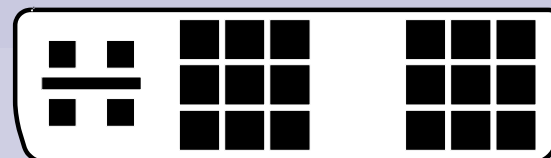


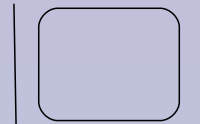
*Mini Display Port*





# DVI dažādība



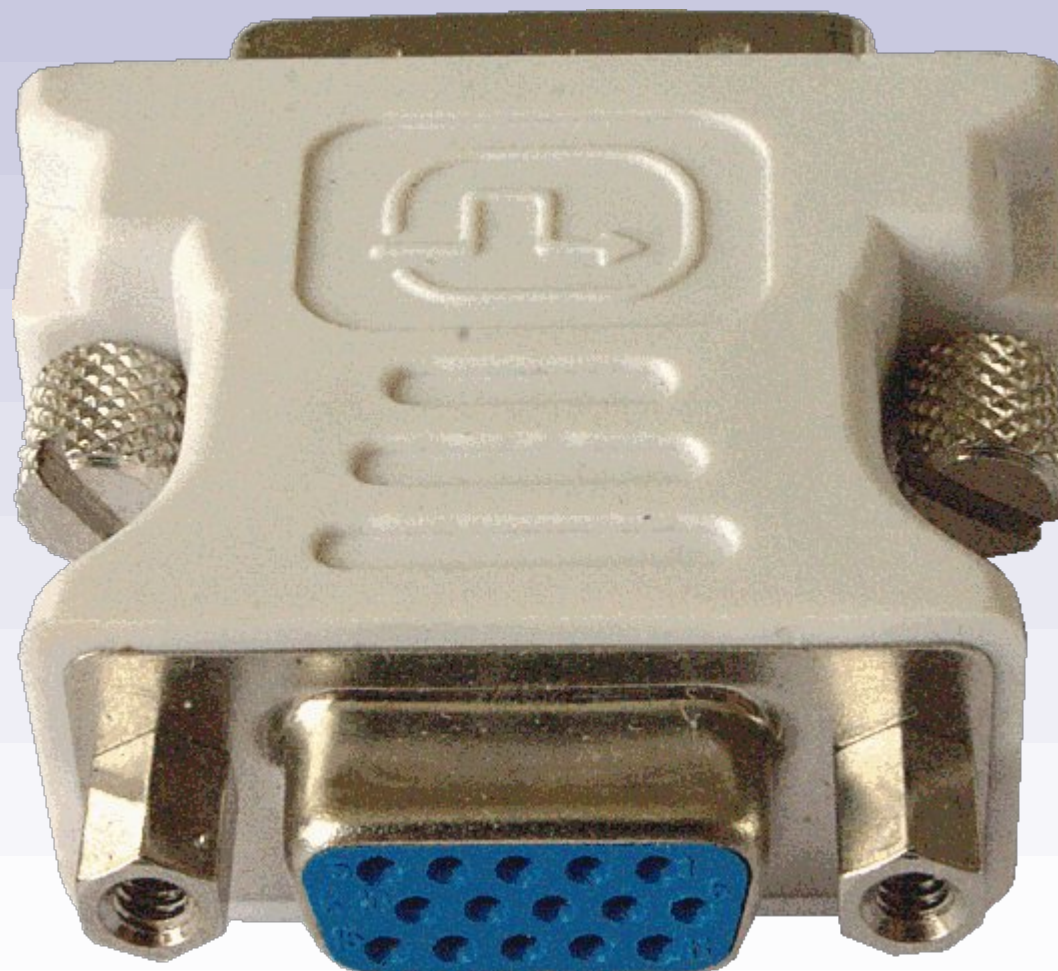


# DVI -> VGA

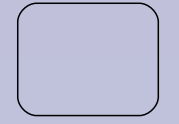




# DVI -> VGA







# Monitoru porti

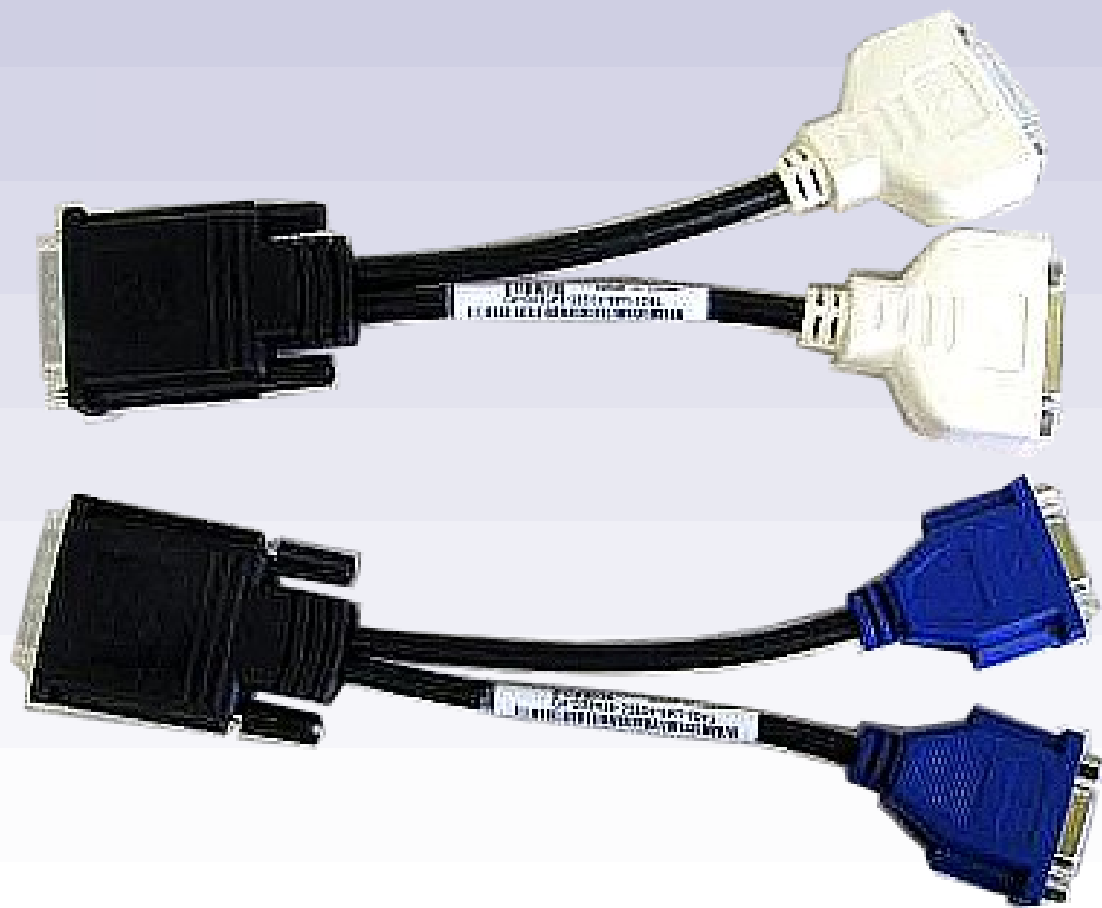
*Low Force Helix  
DMS-59*

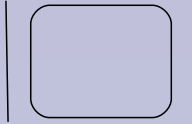




# Monitoru porti

*Low Force Helix  
DMS-59*



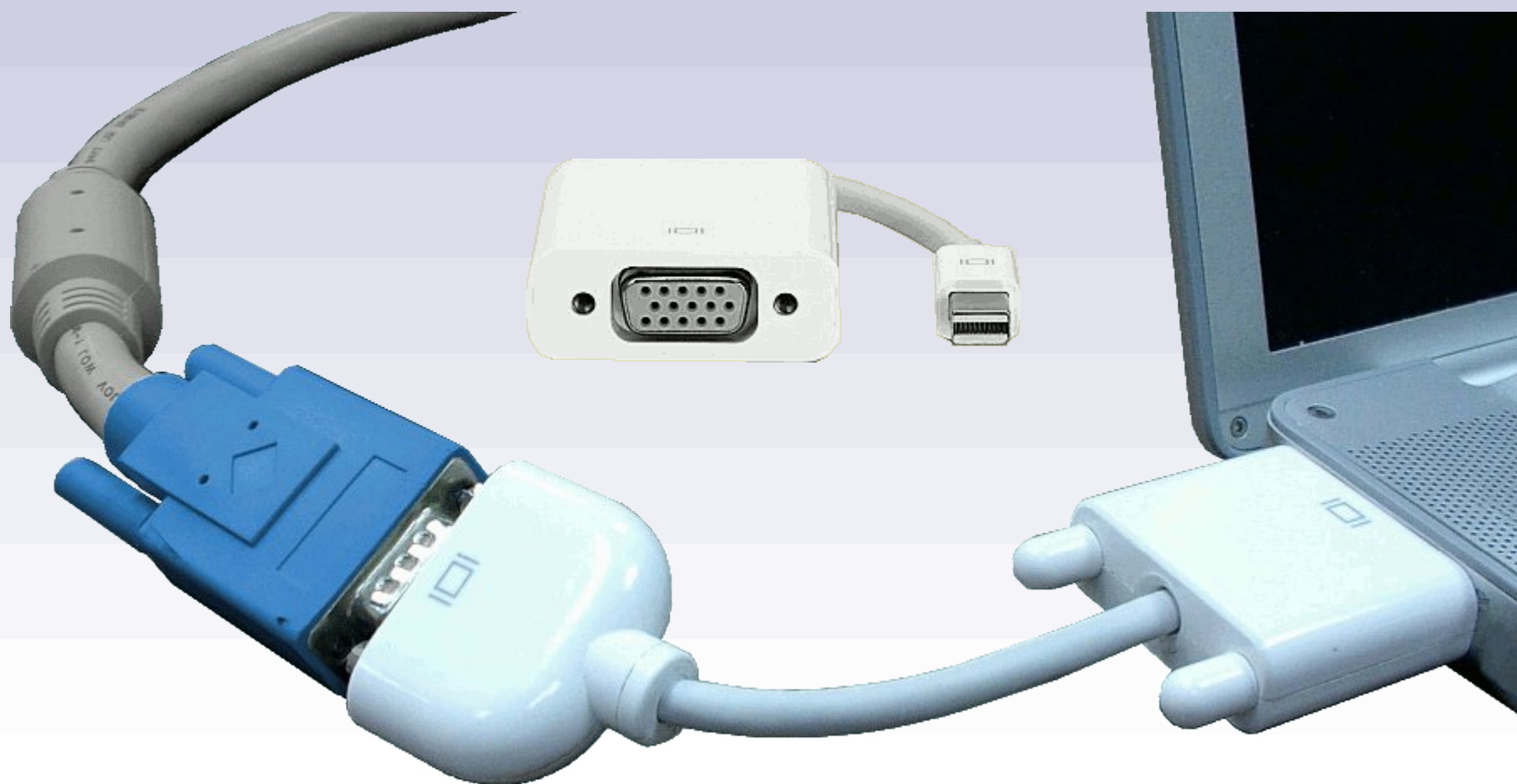


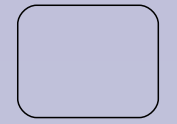
# *LCD* projektorā pievienošana *Mak*-am





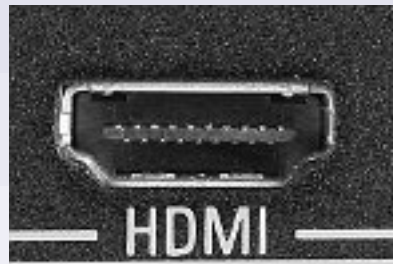
# *LCD* projektora pievienošana *Mak*-am





# HDMI

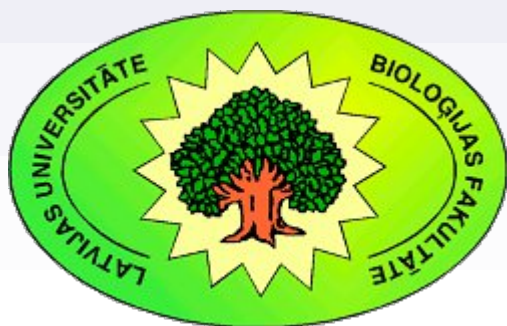
- *High-Definition Multimedia Interface*



# Bioloģijas laboratorijas eksperimenta veidošanas un demonstrēšanas metodika Biol4296

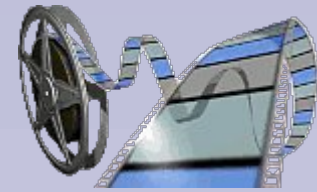


## Audio/Video



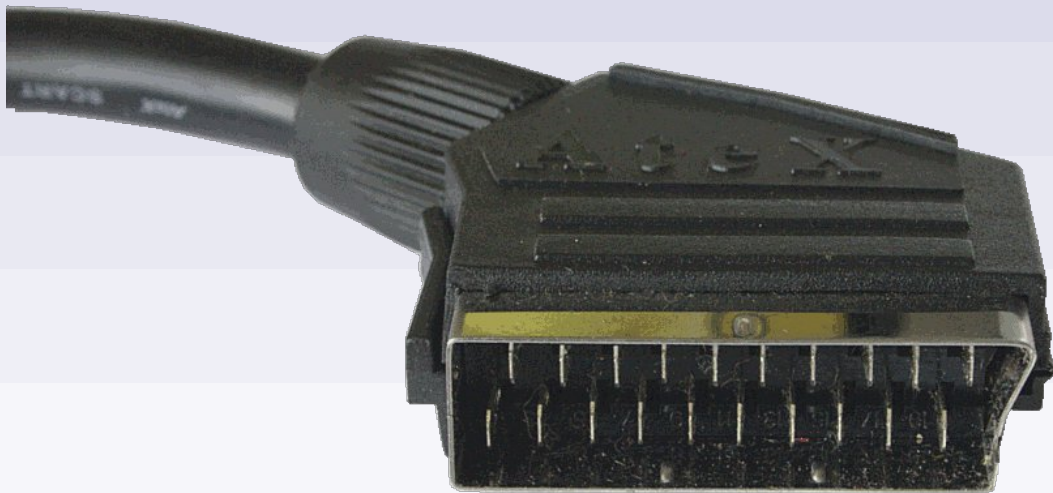
*Kārlis Kalviškis, LU Bioloģijas fakultāte*

*2014. gada 15. oktobrī*

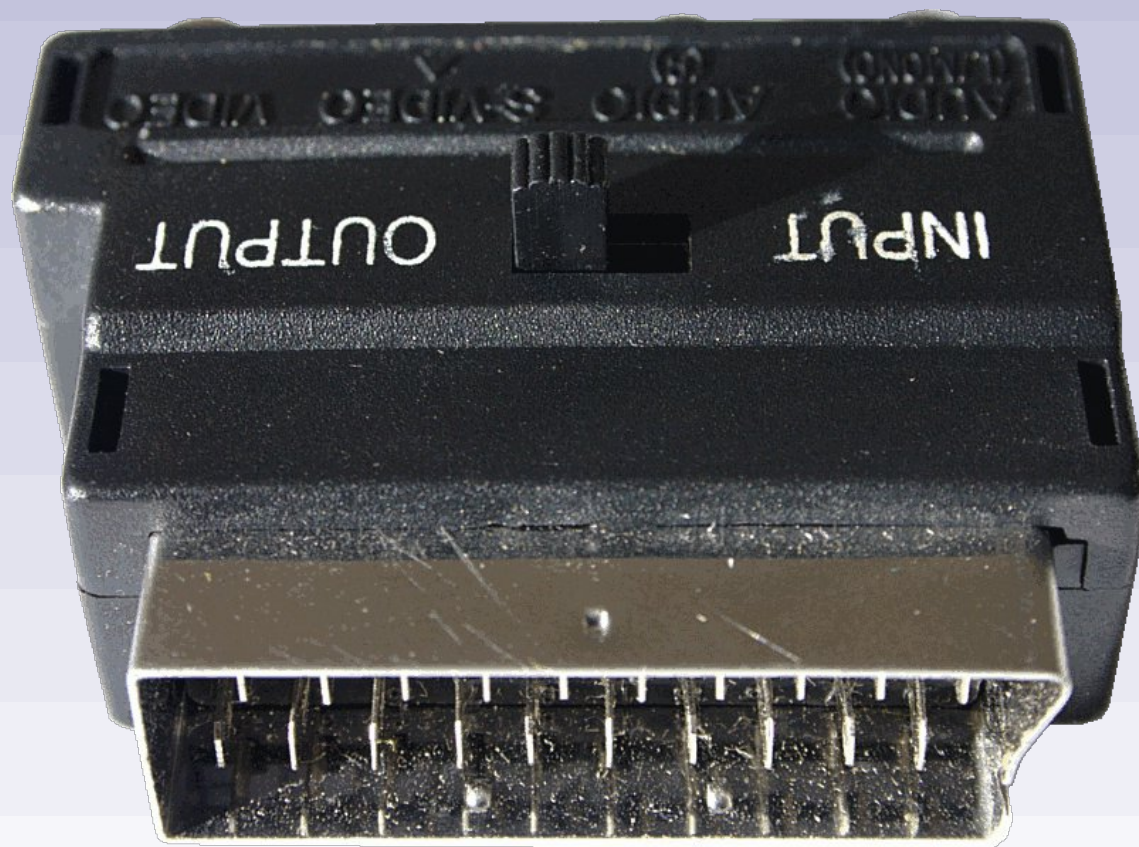
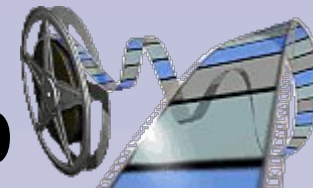


# SCART

- *Syndicat des Constructeurs d'Appareils Radiorécepteurs et Téléviseurs.*

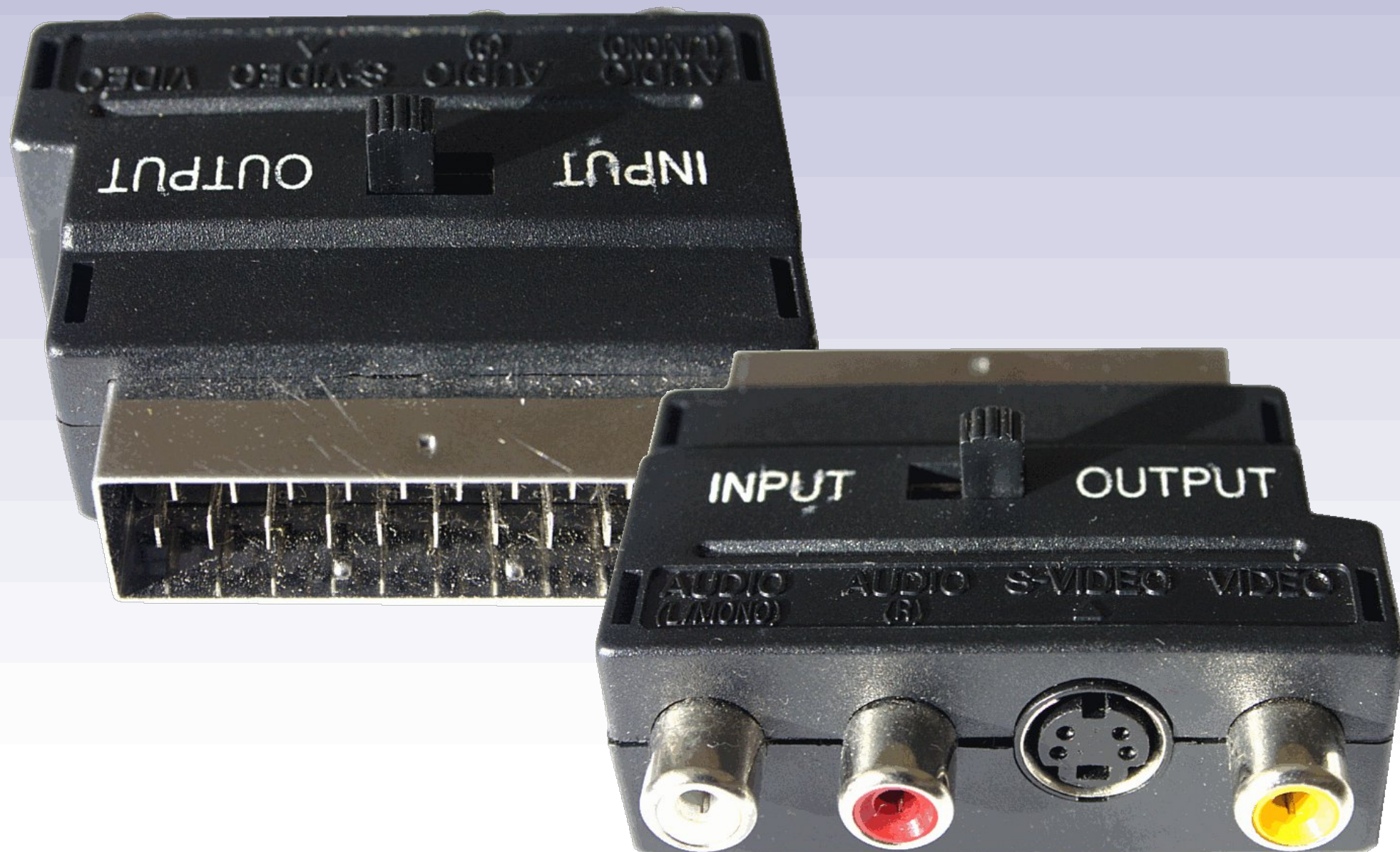
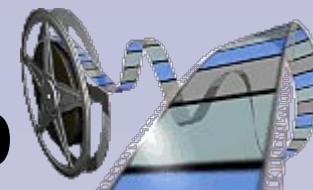


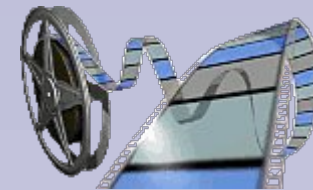
# SCART <-> S-Video, C-Video



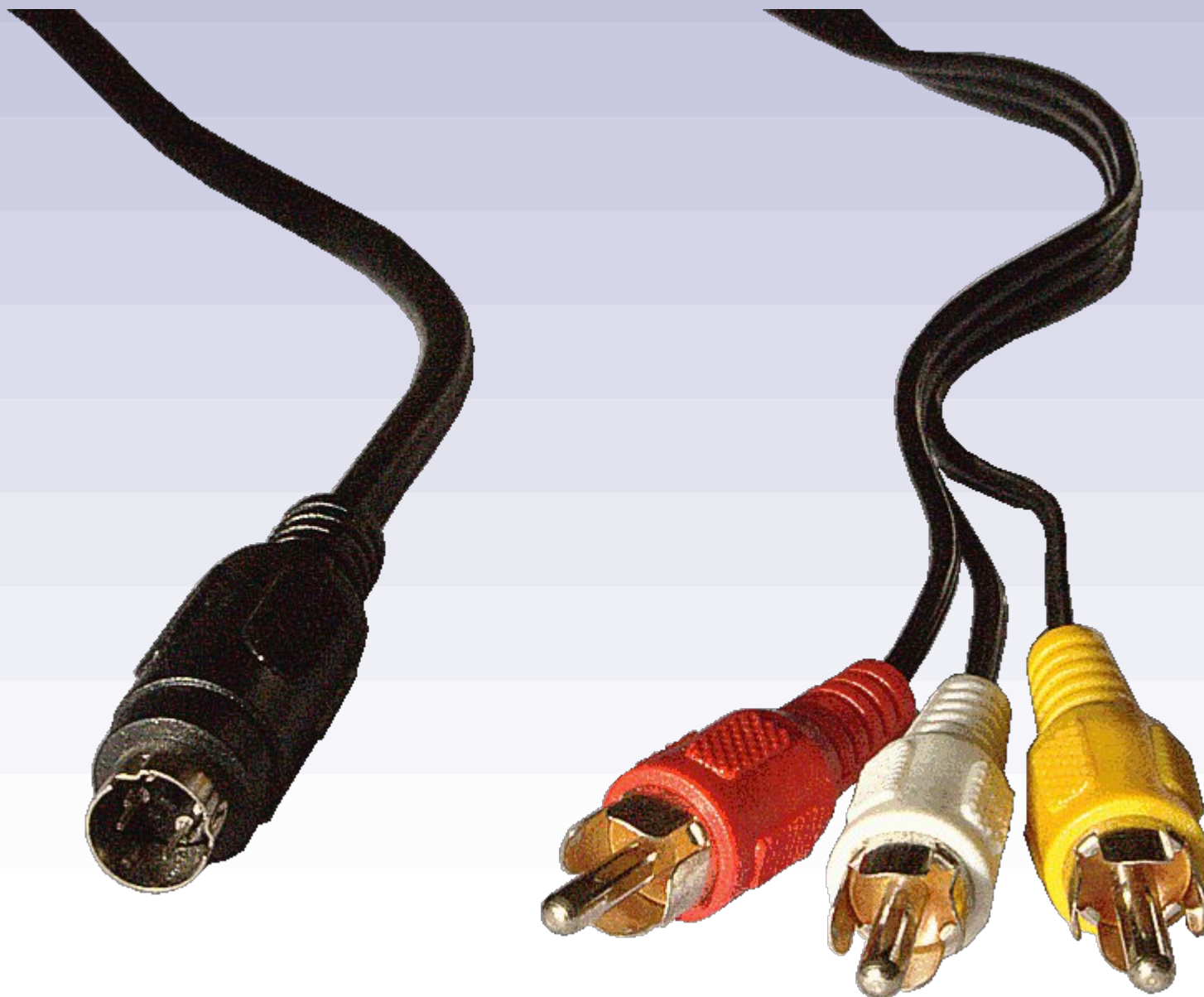


# SCART <-> S-Video, C-Video

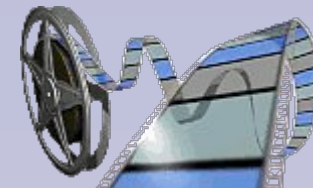


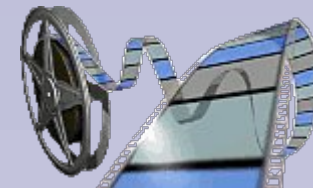


# S-Video, C-Video

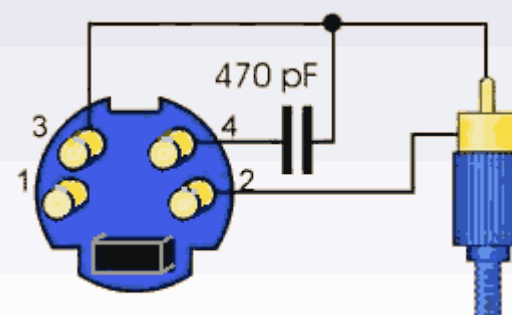


# S-Video -> C-Video

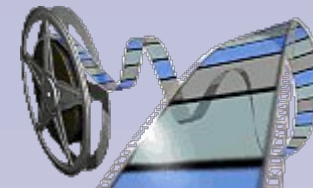




# S-Video -> C-Video



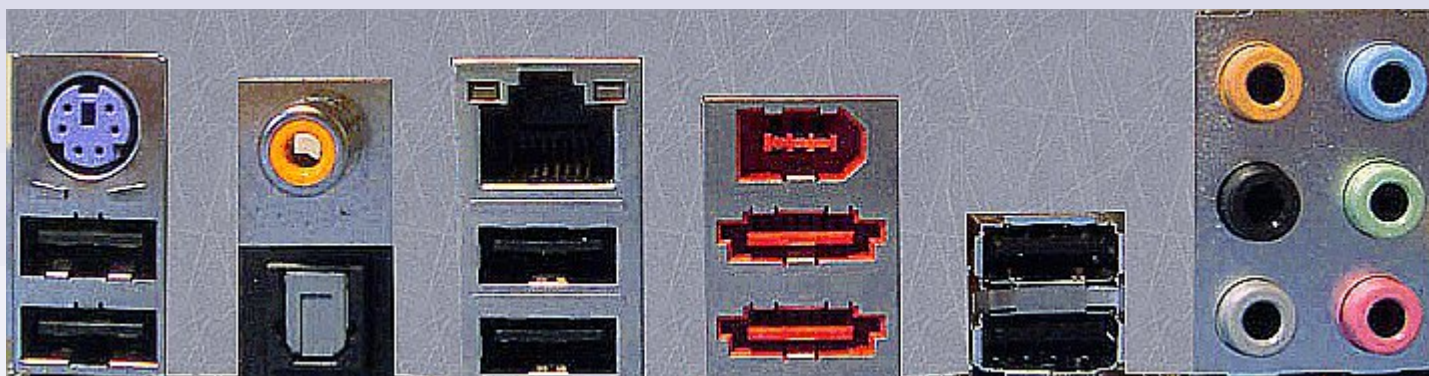
# Video In Video Out (VIVO)



# Daži audio savienotāji



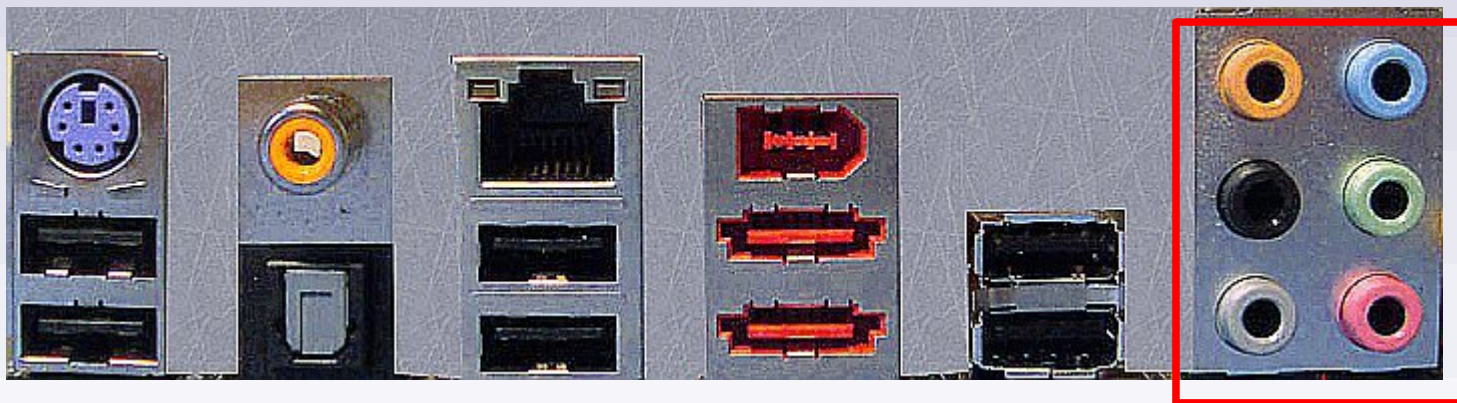
# Datora audio ieejas/izejas





# Datora audio ieejas/izejas

*Analogie  
signāli*



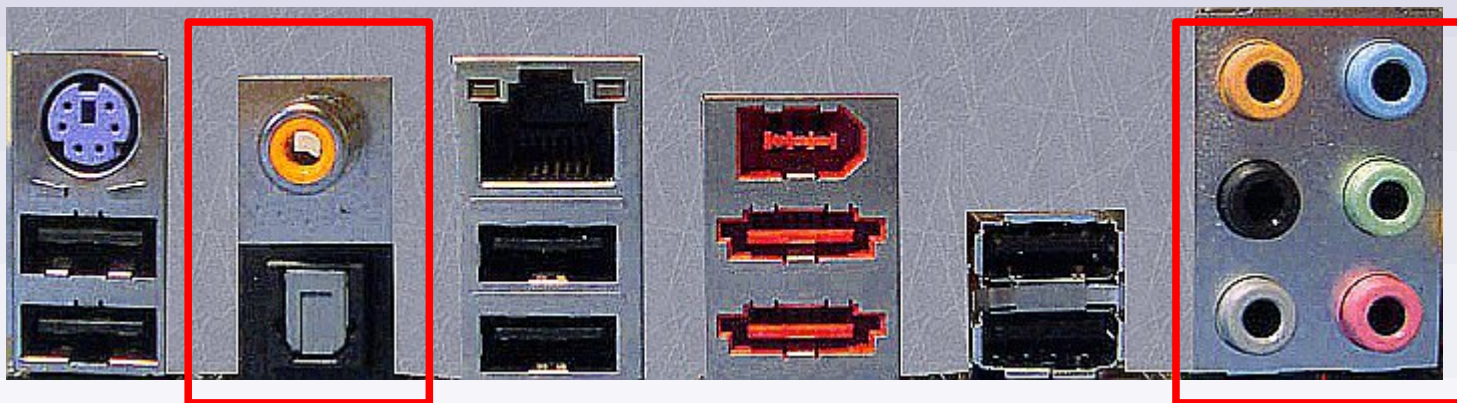




# Datora audio ieejas/izejas

*Digitālie  
signāli (S/PDIF)*

*Analogie  
signāli*

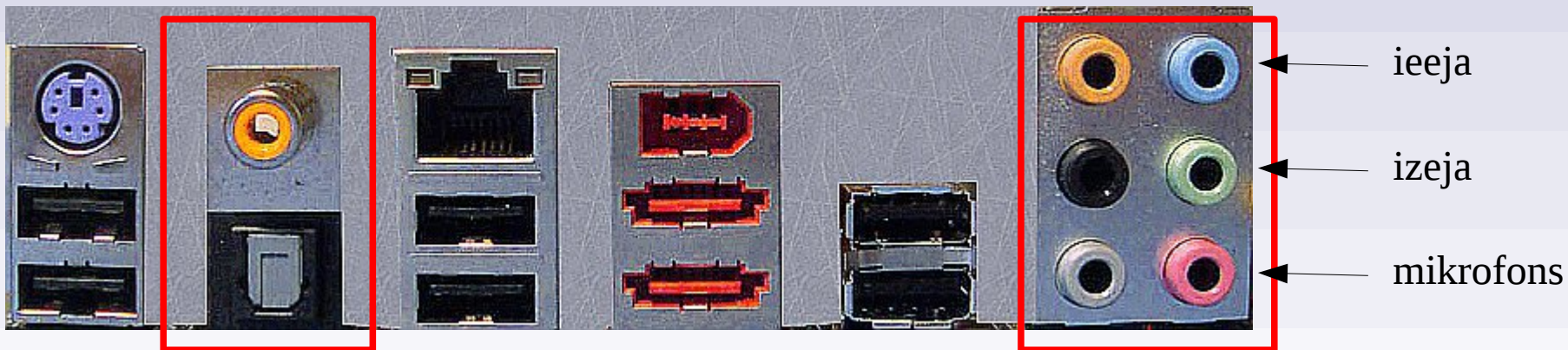




# Datora audio ieejas/izejas

*Digitālie  
signāli (S/PDIF)*

*Analogie  
signāli*

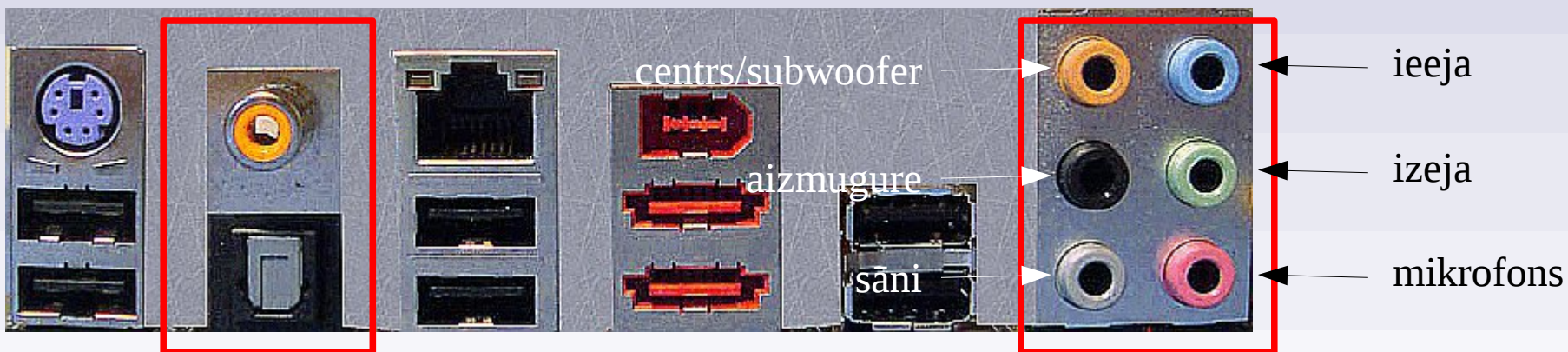




# Datora audio ieejas/izejas

*Digitālie  
signāli (S/PDIF)*

*Analogie  
signāli*

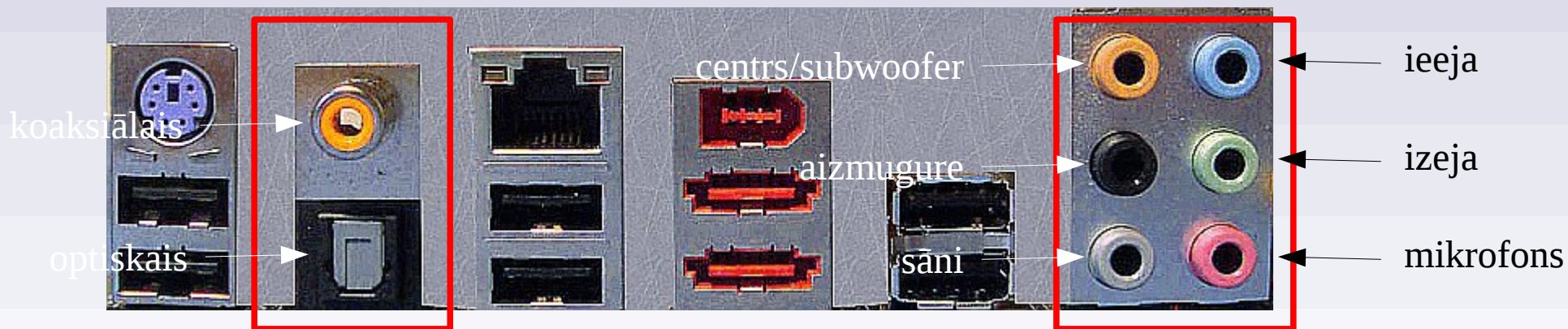




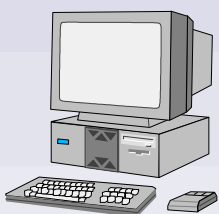
# Datora audio ieejas/izejas

*Digitālie  
signāli (S/PDIF)*

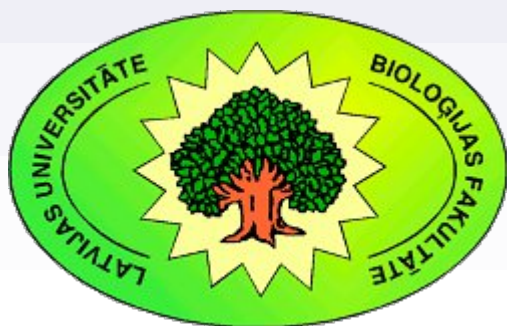
*Analogie  
signāli*



# Bioloģijas laboratorijas eksperimenta veidošanas un demonstrēšanas metodika Biol4296



Iekārtas



*Kārlis Kalviškis, LU Bioloģijas fakultāte*

*2014. gada 15. oktobrī*

# Digitālās video un fotokameras



# Digitālās video un fotokameras

- Ja iespējams, labāk izmantot Firewire (IEEE 1394).



# Digitālās video un fotokameras

- Ja iespējams, labāk izmantot Firewire (IEEE 1394).
- Parastā video kabelis:



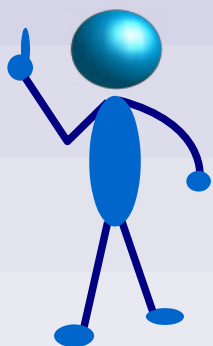


# Atmiņu karšu lasītāji

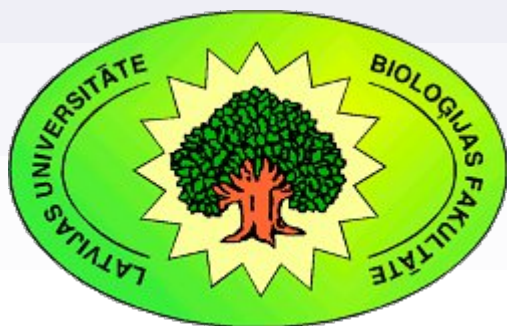
- Fotogrāfijas no digitālās kameras ērti un ātri var pārkopēt datorā izmantojot atmiņas karšu lasītāju.



# Bioloģijas laboratorijas eksperimenta veidošanas un demonstrēšanas metodika Biol4296



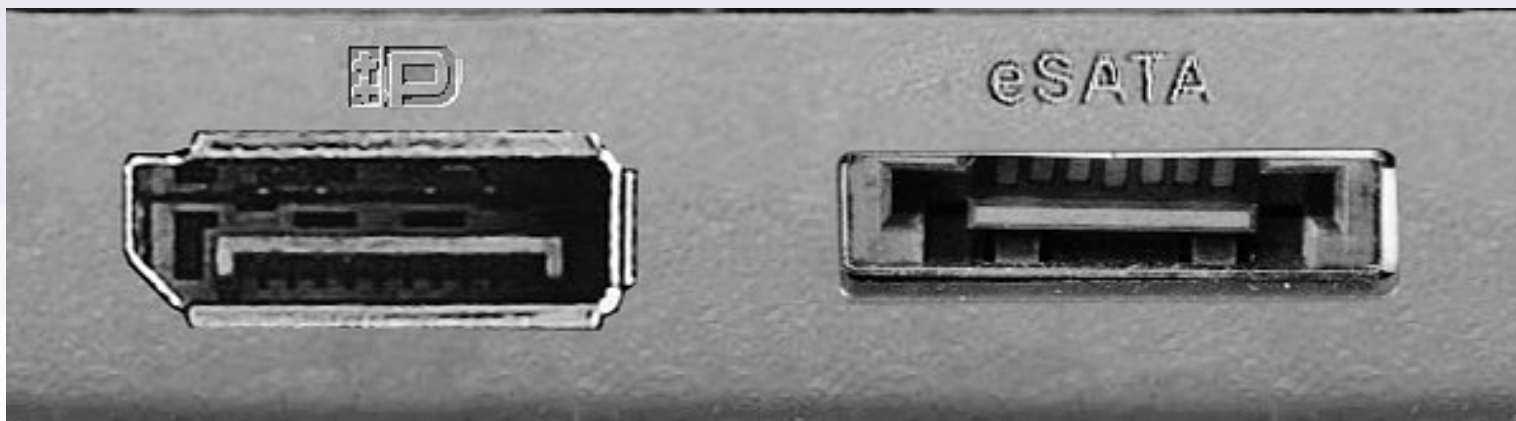
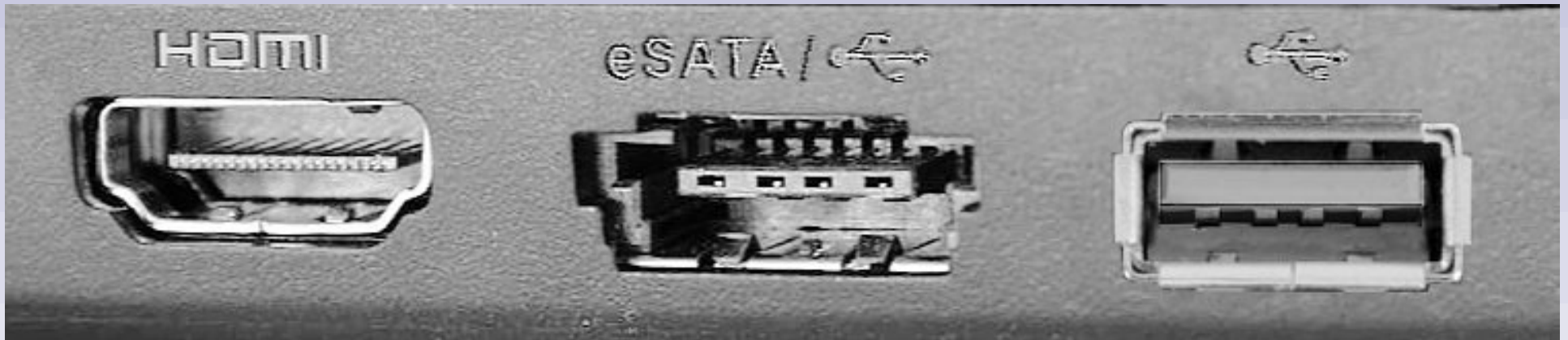
Portu līdzīgais izskats



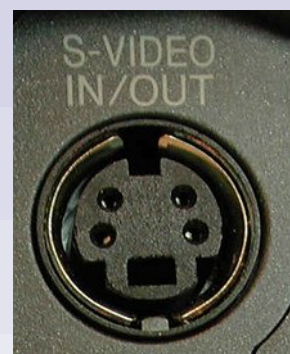
*Kārlis Kalviškis, LU Bioloģijas fakultāte*

*2014. gada 15. oktobrī*

# HDMI, e-Sata, USB, DisplayPort



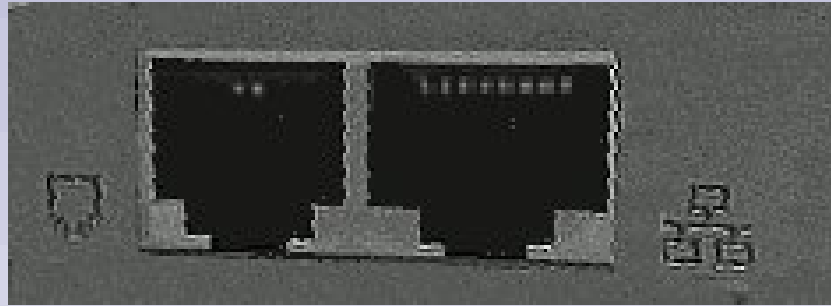
# PS/2, S-Video, nestandarta grafiskais ports



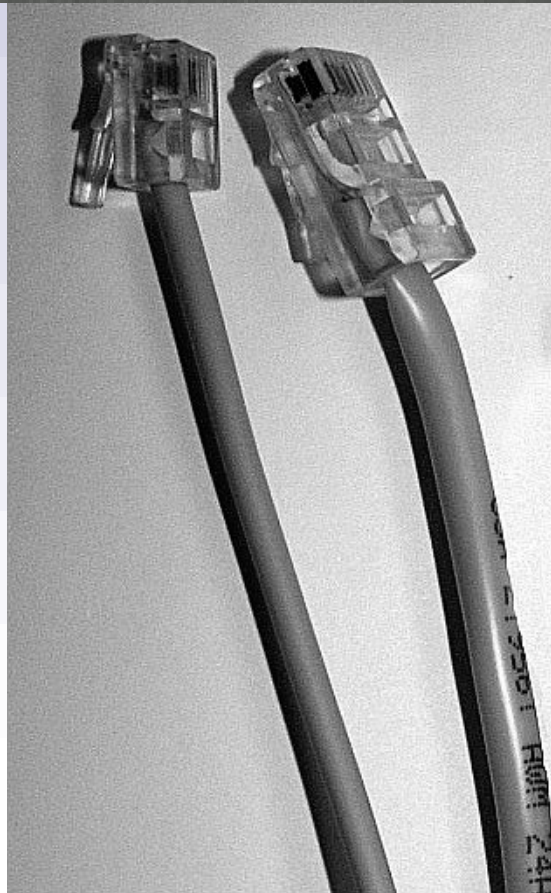
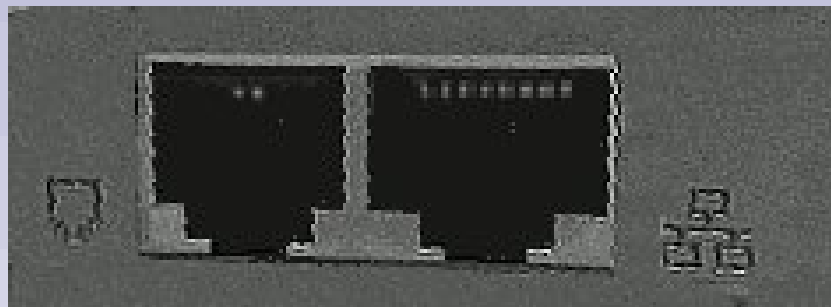
# COM, VGA



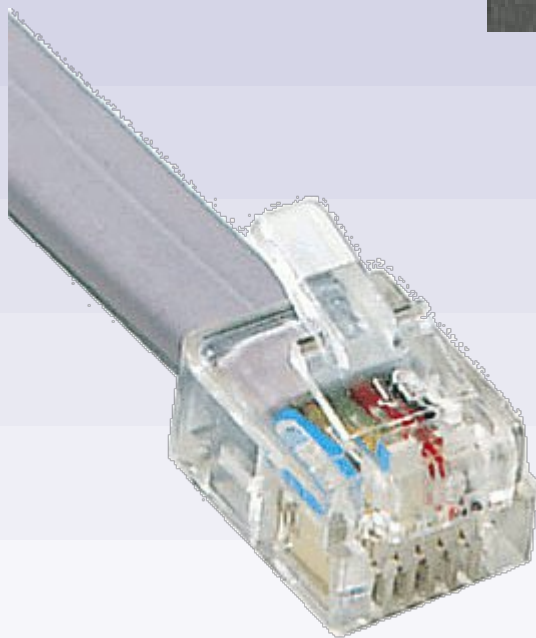
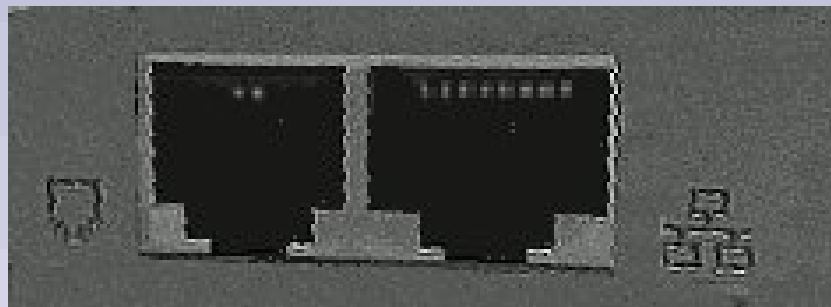
# Tālruņa līnija, Datortīkls



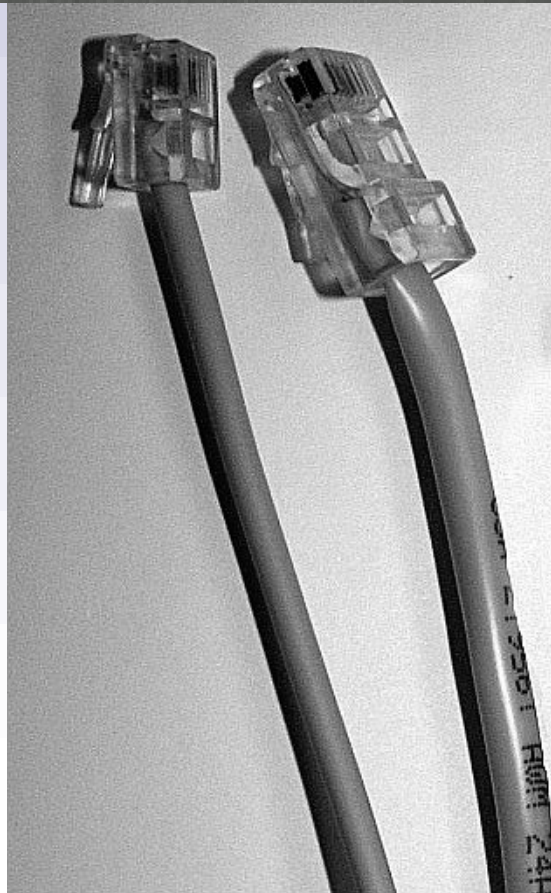
# Tālruņa līnija, Datortīkls



# Tālruņa līnija, Datortīkls

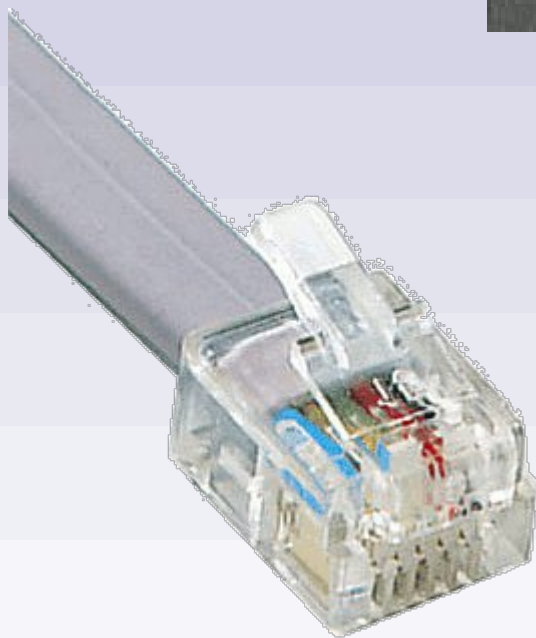
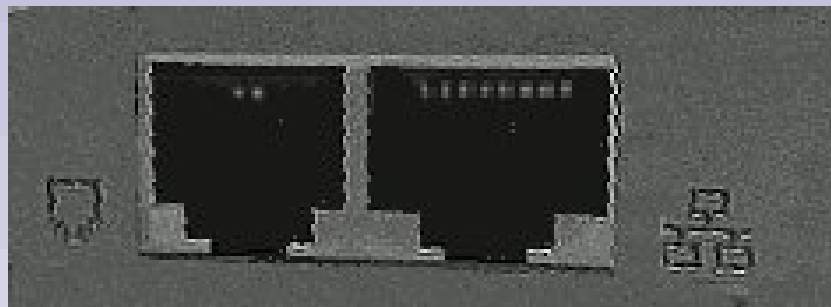


*6 vai 4  
kontakti*

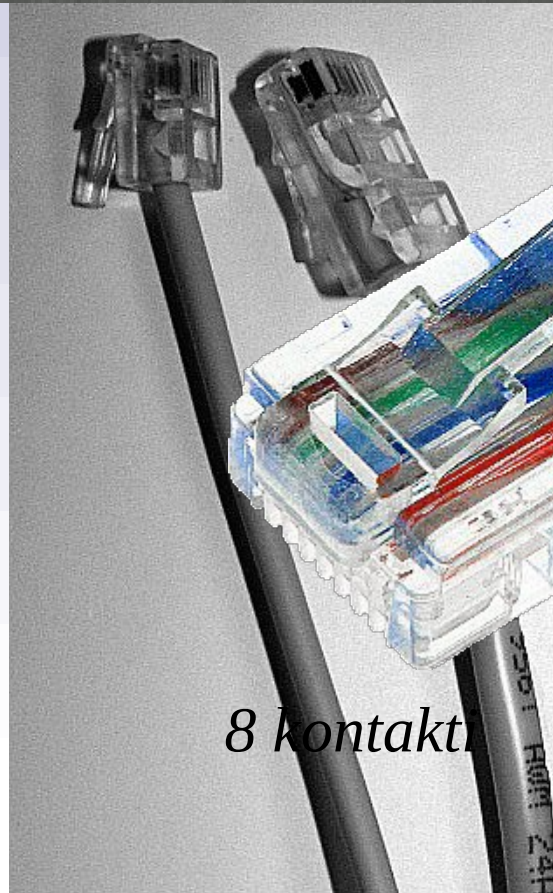




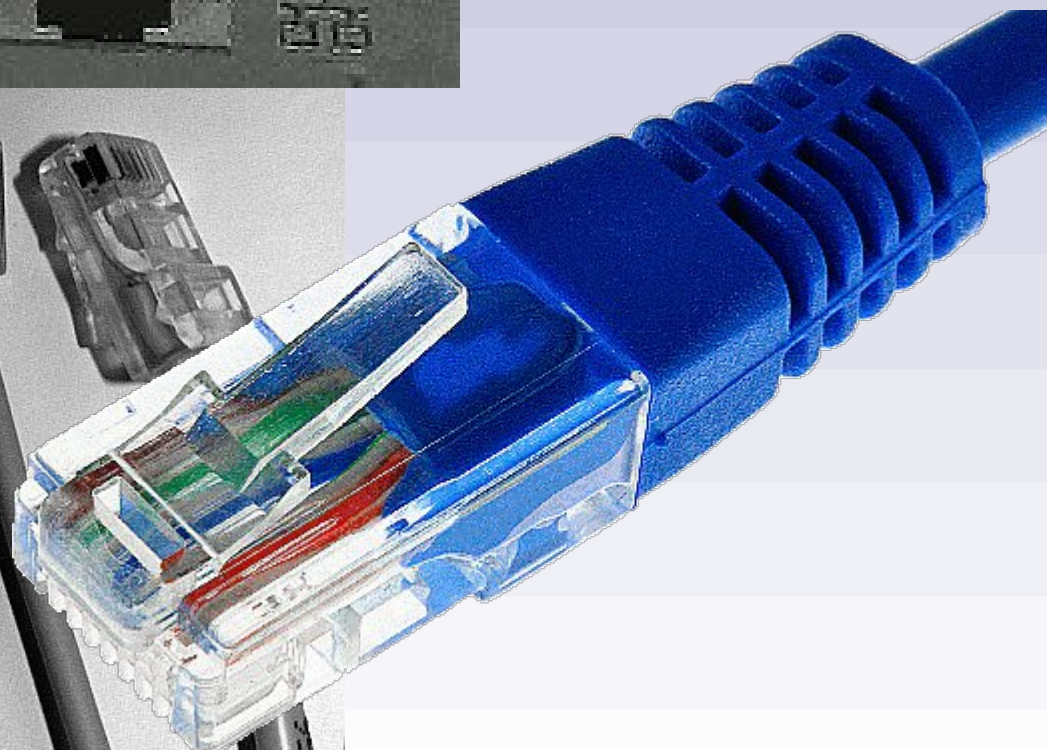
# Tālruņa līnija, Datortīkls



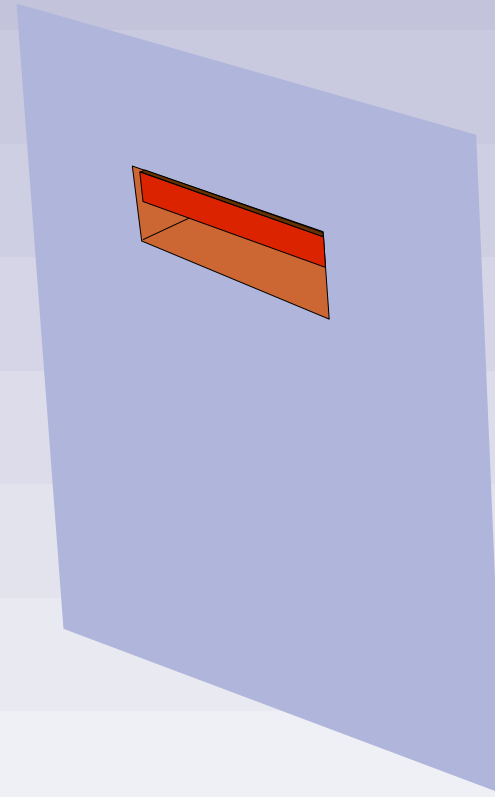
*6 vai 4  
kontakti*



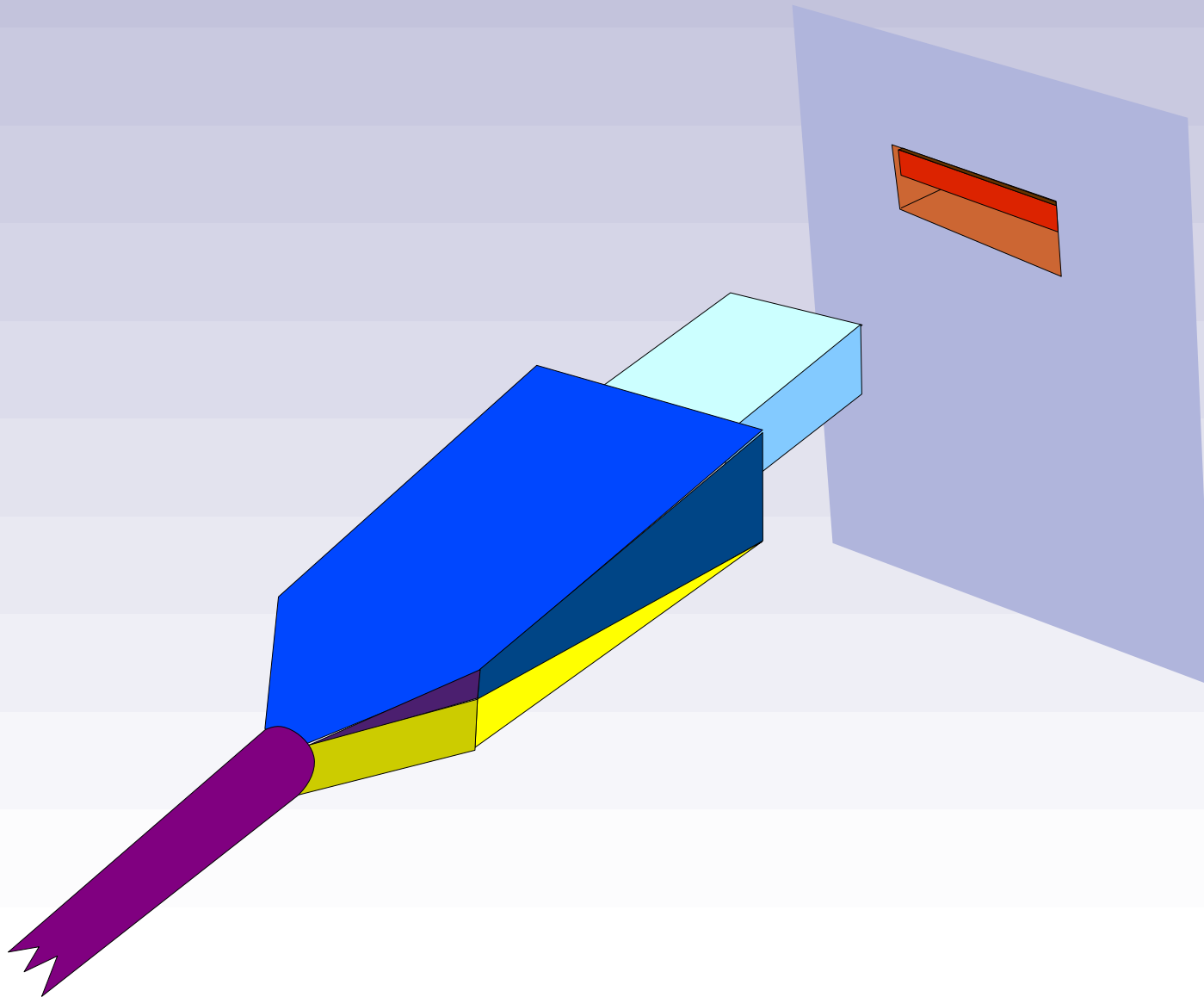
*8 kontakti*



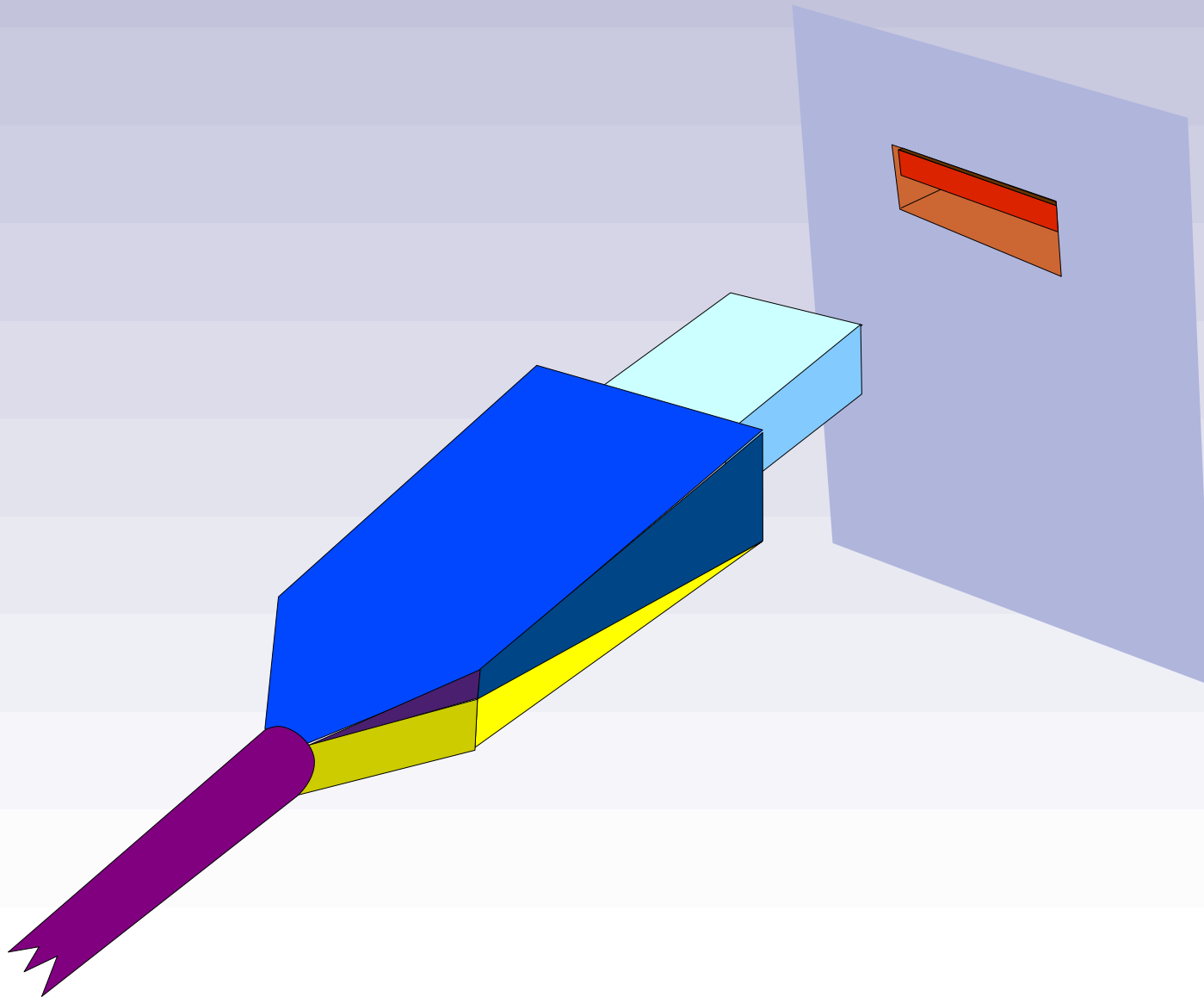
# „Daudzdimensionāli” vadi ;-)



# „Daudzdimensionāli” vadi ;-)

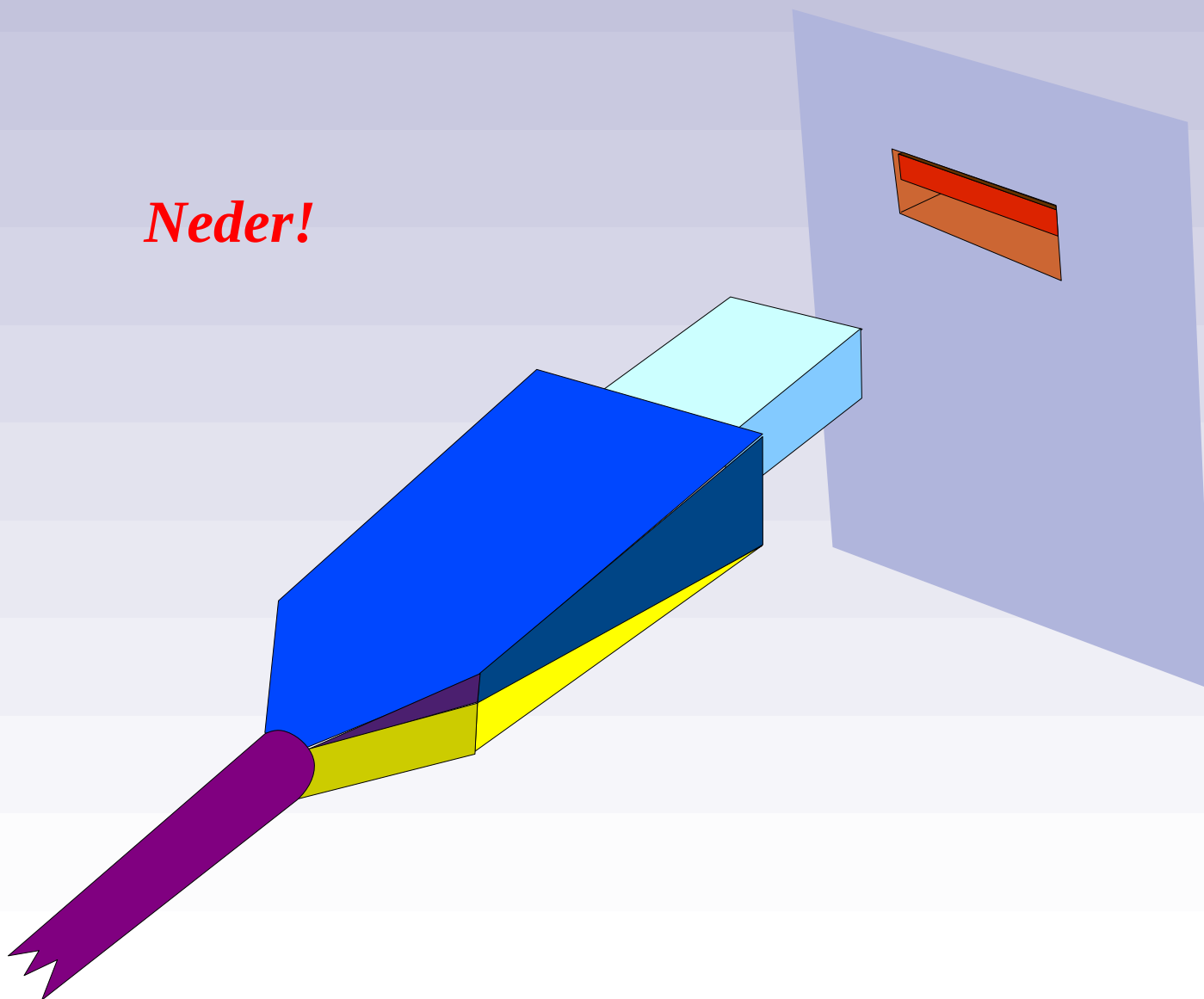


# „Daudzdimensionāli” vadi ;-)

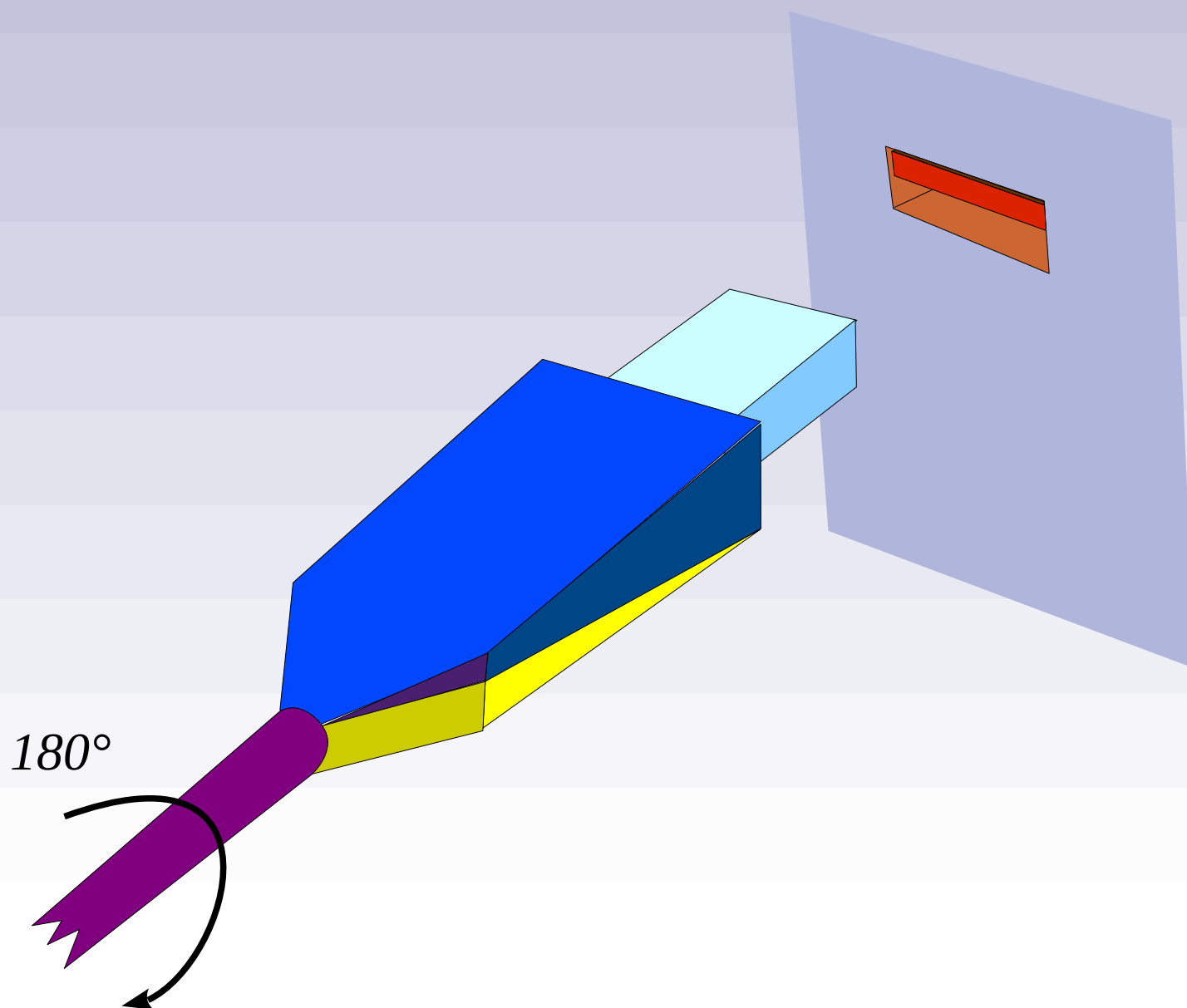


# „Daudzdimensionāli” vadi ;-)

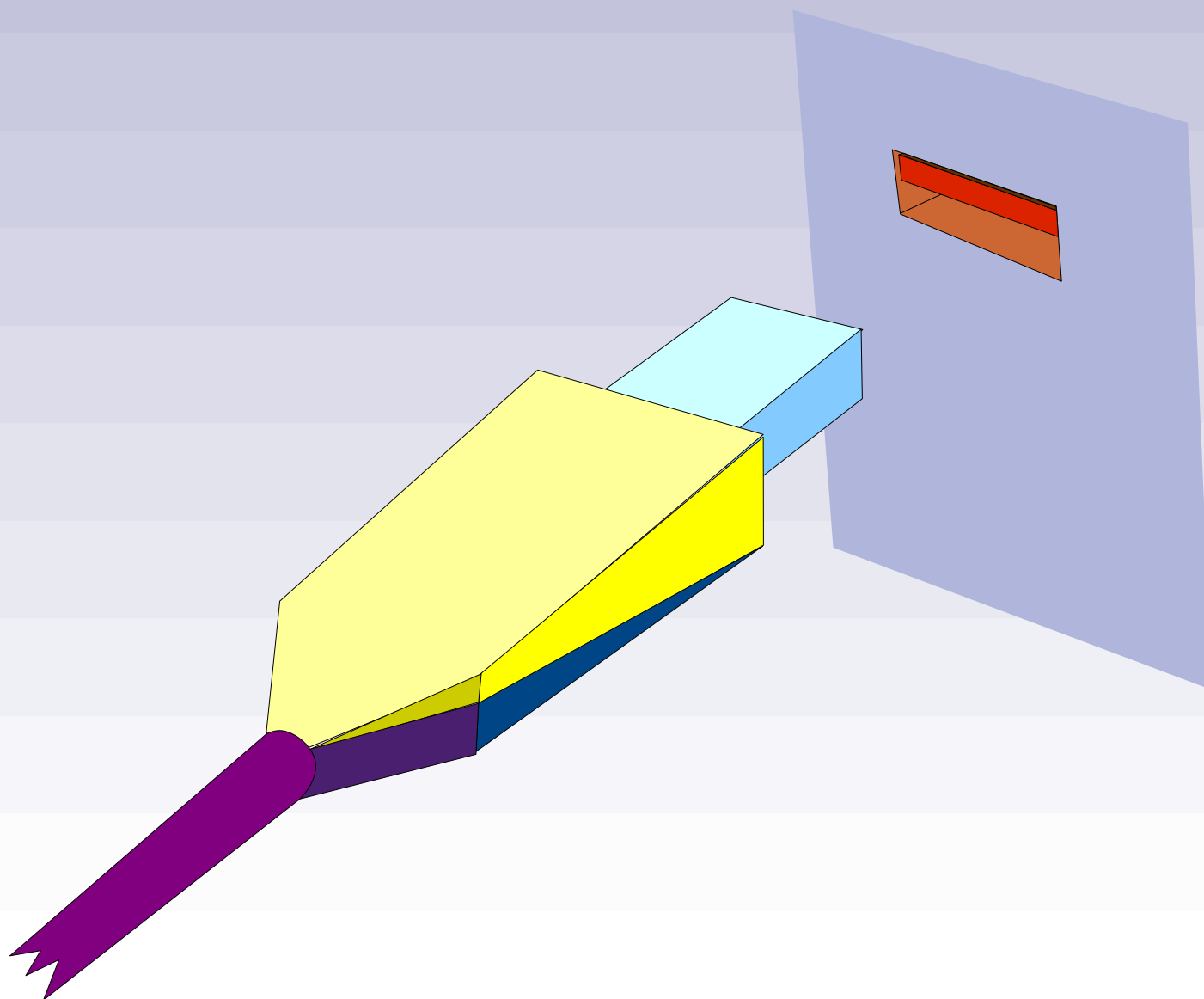
*Neder!*



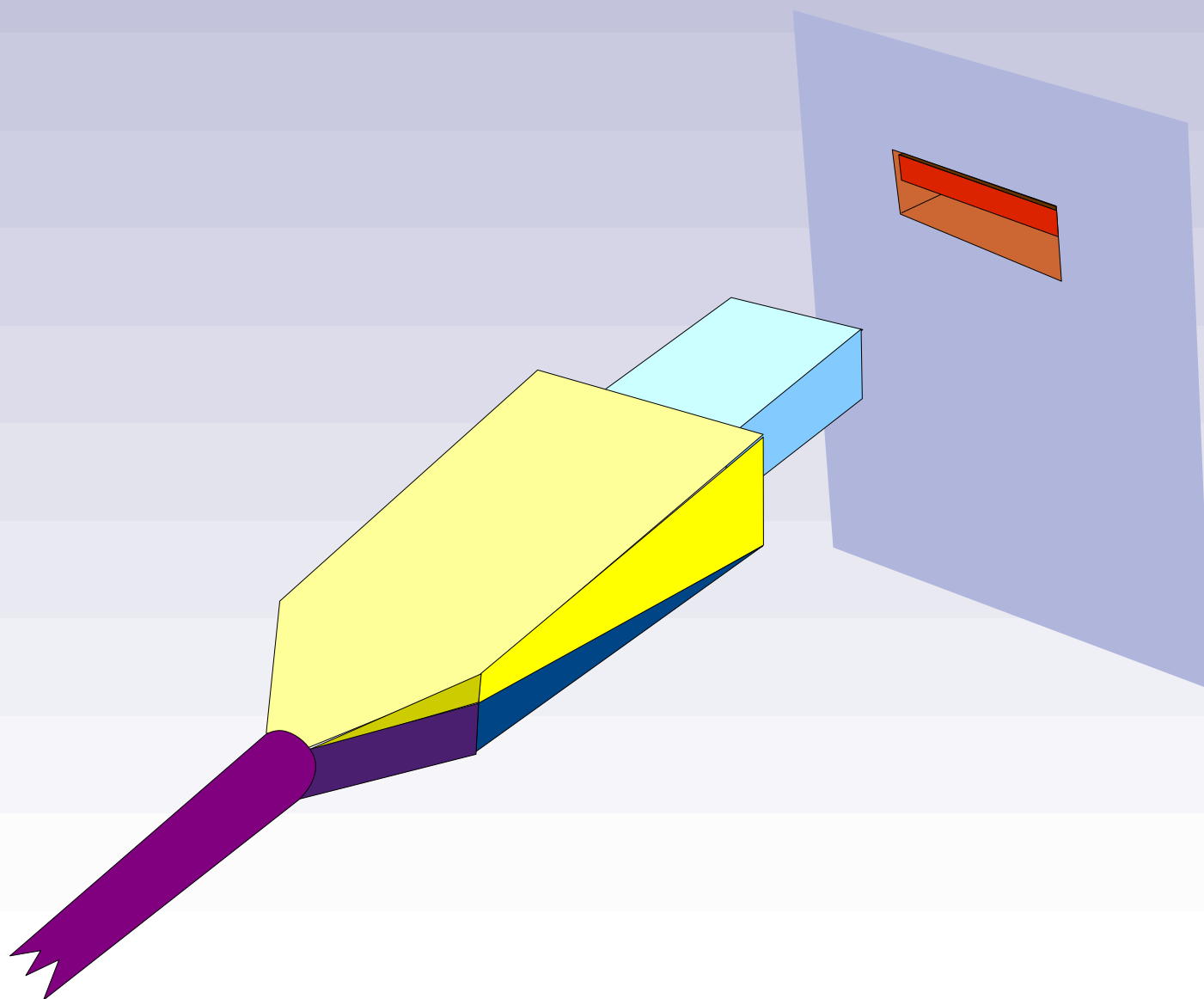
# „Daudzdimensionāli” vadi ;-)



# „Daudzdimensionāli” vadi ;-)



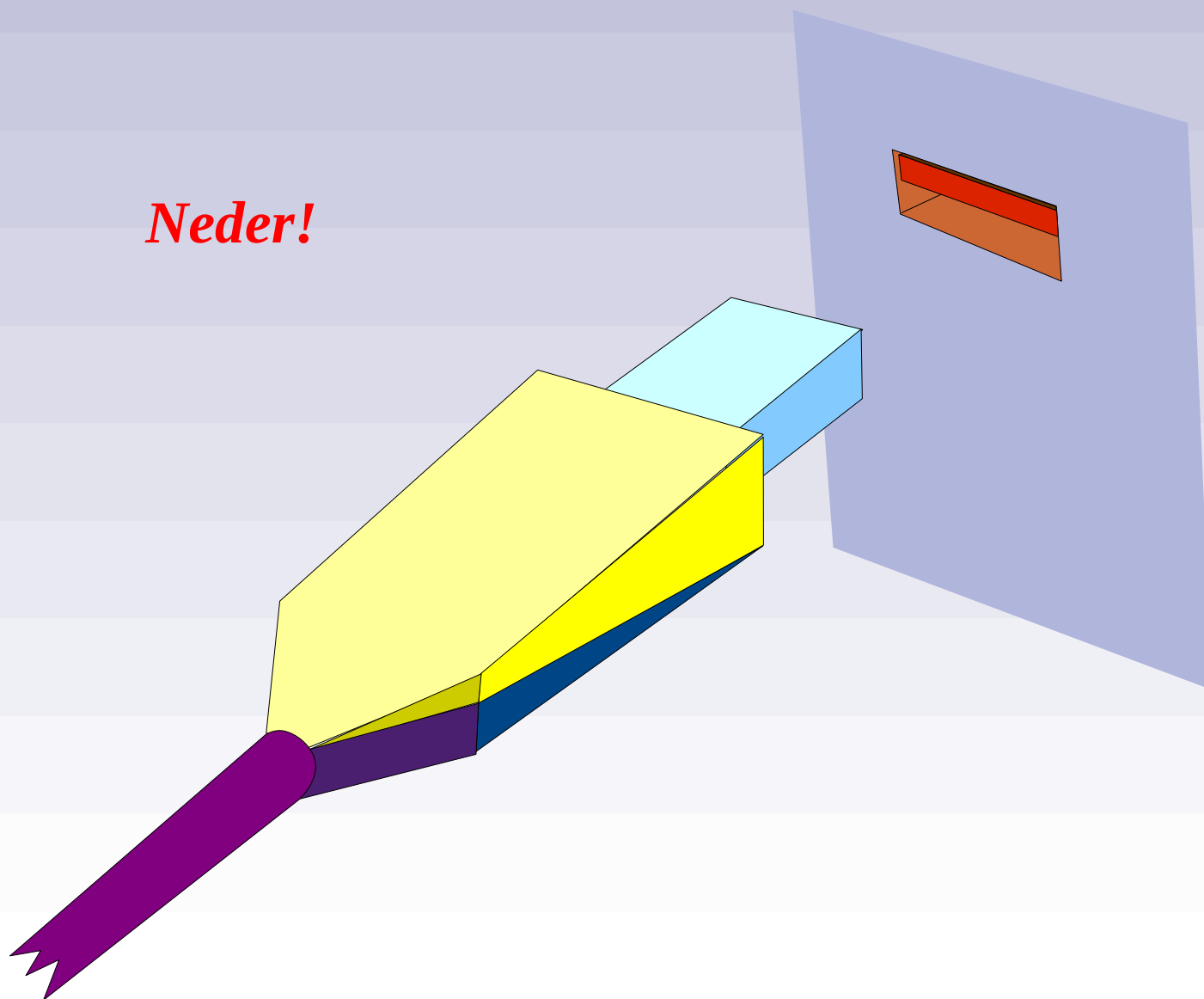
# „Daudzdimensionāli” vadi ;-)



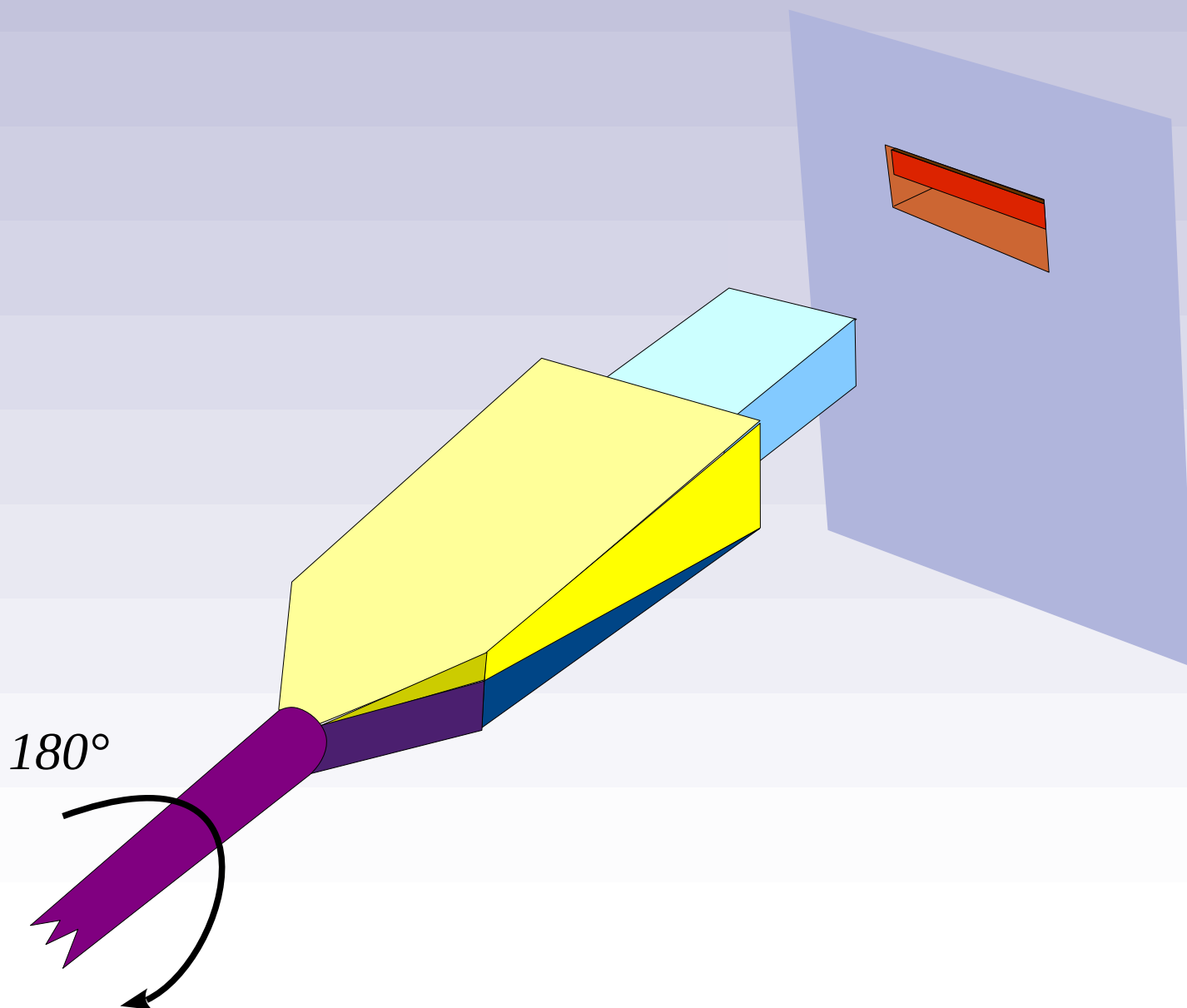


# „Daudzdimensionāli” vadi ; -)

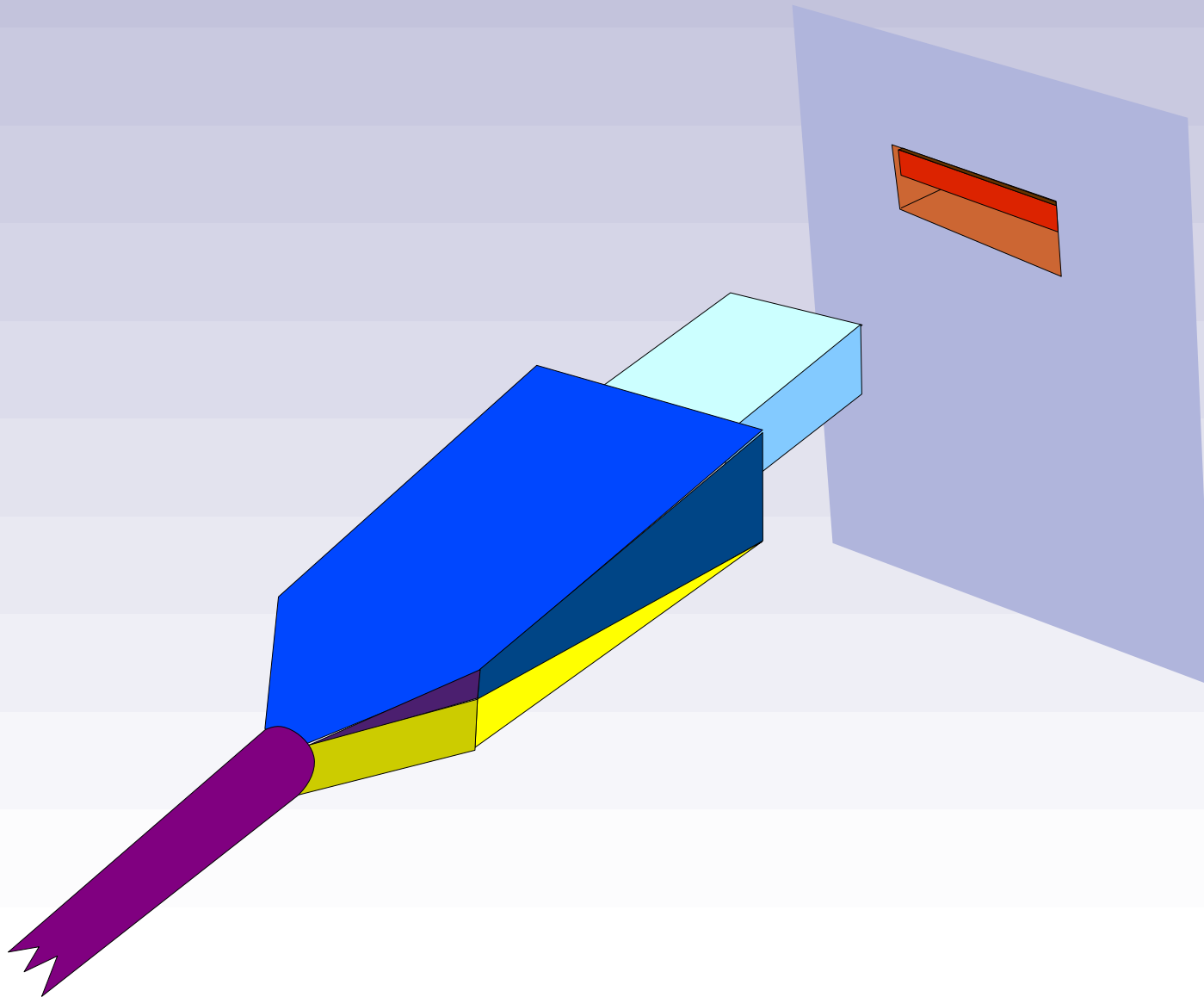
*Neder!*



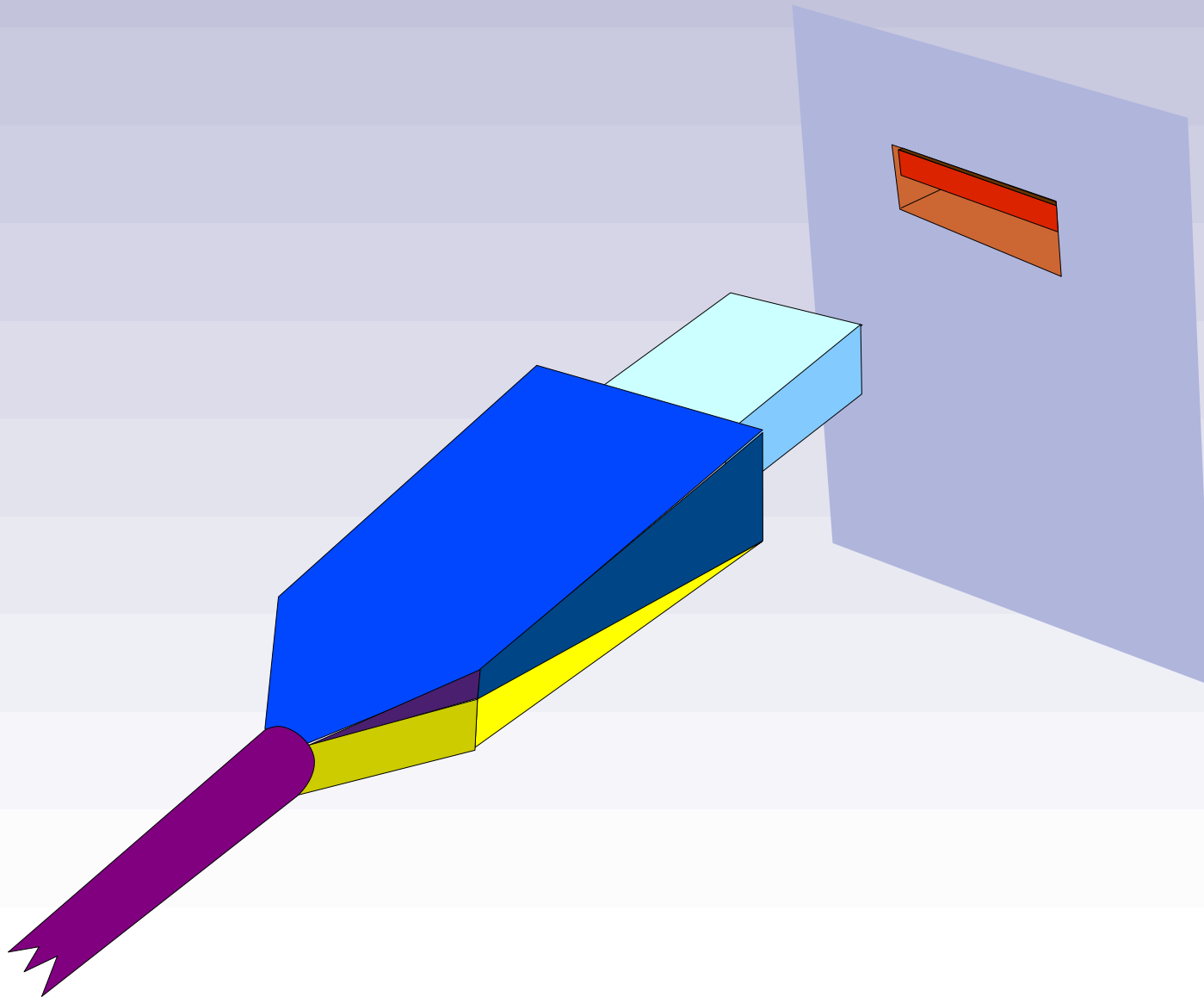
# „Daudzdimensionāli” vadi ;-)



# „Daudzdimensionāli” vadi ;-)

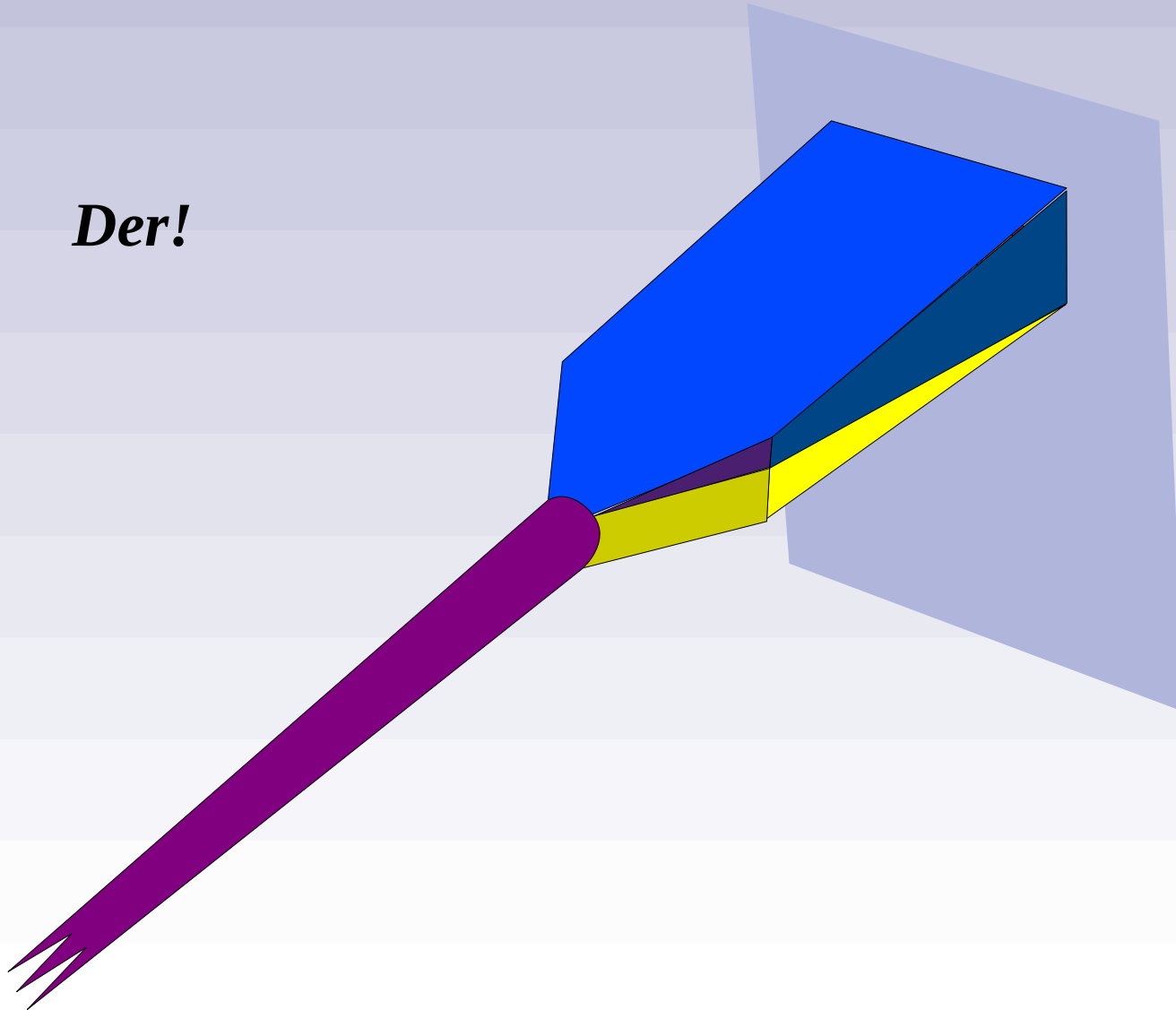


# „Daudzdimensionāli” vadi ;-)



# „Daudzdimensionāli” vadi ;-)

*Der!*



# Paldies par uzmanību!