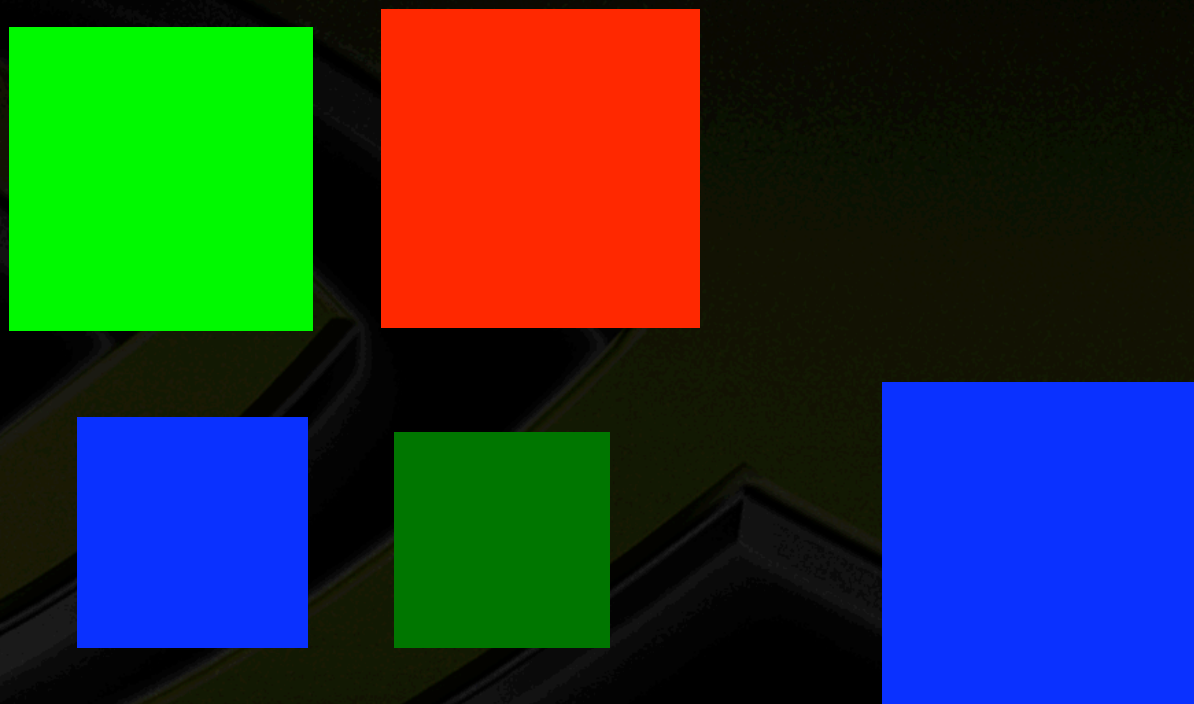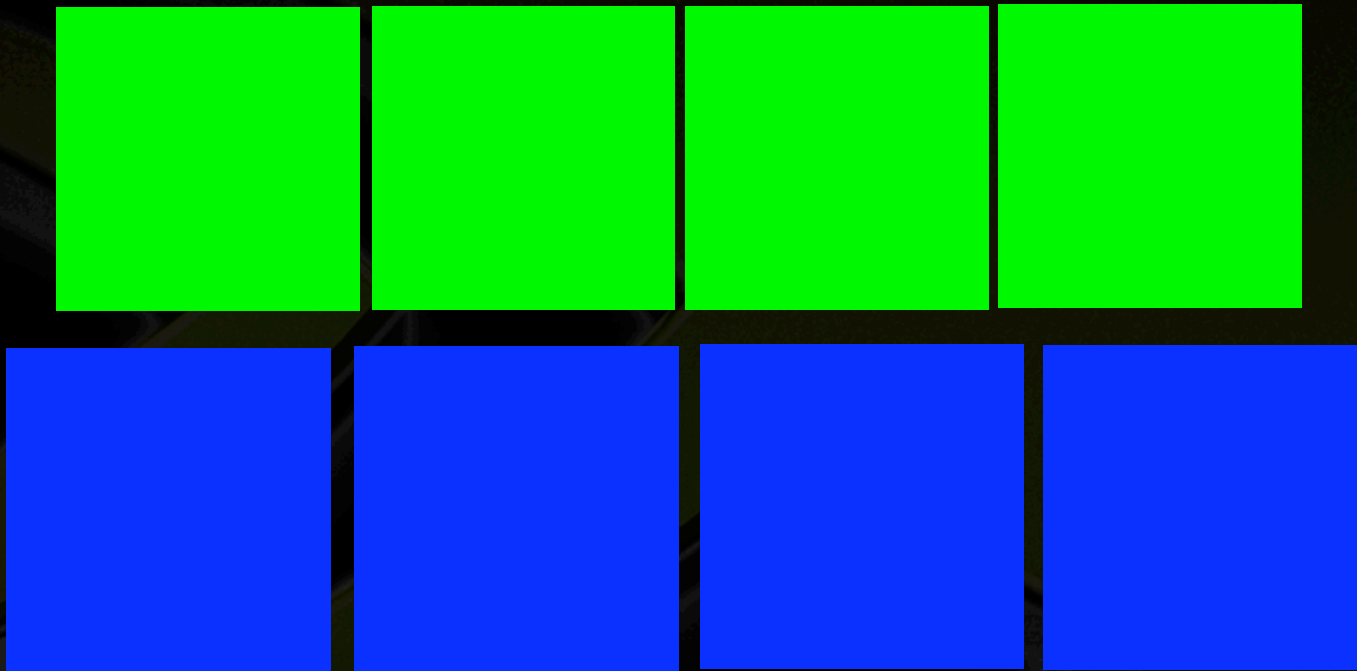**The Future of Graphics Hardware**

Integration?
(Relative Die Sizes, 65nm normalized)

PC 2008

- **4-8 GPUs, 16-32 CPU cores… integrated?**

- **906mm^2 in 45nm. Who wants to build it?**

How About… Dis-Integration?

- **More specialization of devices**
- **More types of devices**
- **More performance scaling – unlimited demand**

- **Distributed, client-server architecture**
    - **Distribute functions**
    - **Graphics everywhere: on display, mobile devices, servers**
    - **Compute everywhere: on display, mobile devices, servers**

- **Integration happens when you're done innovating**
    - **Commoditization**

Whither Graphics Hardware (GH)

- **Be more relevant**

- **Make GH a respectable publication venue for more fields**

- **GH is not just about Hardware for Graphics**
  - **That's too narrow**
  - **GH should also be about**
    - **Algorithms**
    - **Approaches**
    - **Enabling other fields**