



**144% increase  
between 2012 and 2013**

The Explosion of Unknown Malware

AV-TEST Institute

[av-test.org](http://av-test.org)

# Why?

## “Malicious Software and its Underground Economy”

joint work with *Omar Abou Selo* (undergrad at CMU) in 2014

### Original research problem

- how easy is it to hire a hacker or get cutting-edge hacking tools on the internet (hacker's forums)?

### Conclusion

- creating a new malware is as simple as assembling pieces available online