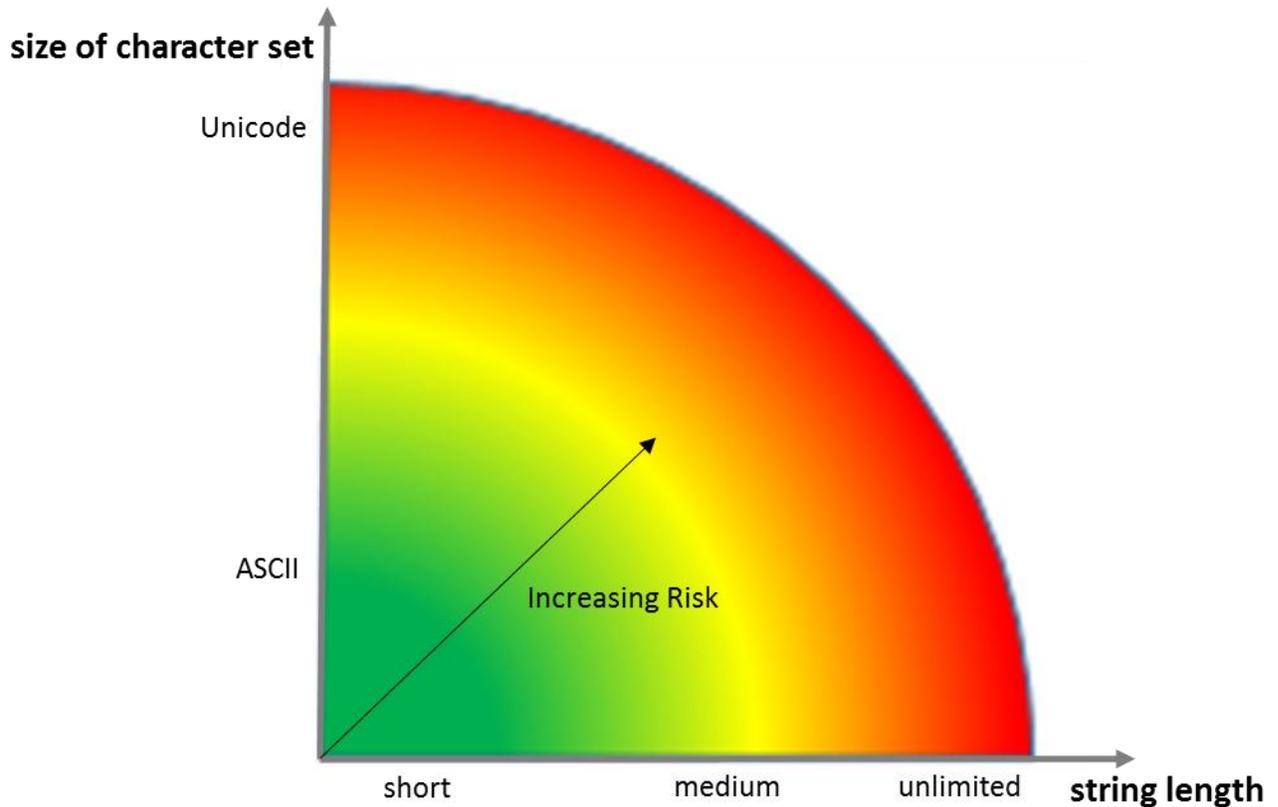


Illustrating the Risk of Unconstrained Strings

One way to reduce the likelihood that a string can contain unauthorized or malicious content is to constrain the contents of the string. As the following figure shows, there are two dimensions to constraining strings: (1) constrain the length of the string, and (2) constrain the size of the character set. In general, the risk that a constrained string could contain unauthorized or malicious content increases as the permissible string length increases and/or the size of the permissible character set increases.



Risk of a string containing unauthorized content and/or malicious code

by Roger Costello & Rob Simmons