

Learning Humanly Usable and Secure Passwords

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1 Introduction

1.1 Human Usability of Password Schemas

1.2 Security Measures for Password Schemas

2 Digit Schema

2.1 Description

2.2 HUM

3 Security Analysis

3.1 Best Possible Q

3.2 Digit Schema achieves best possible Q for linearly independent challenges

3.3 Experimental evaluation of Q for websites, English words and random strings.

4 Conclusion and Questions