

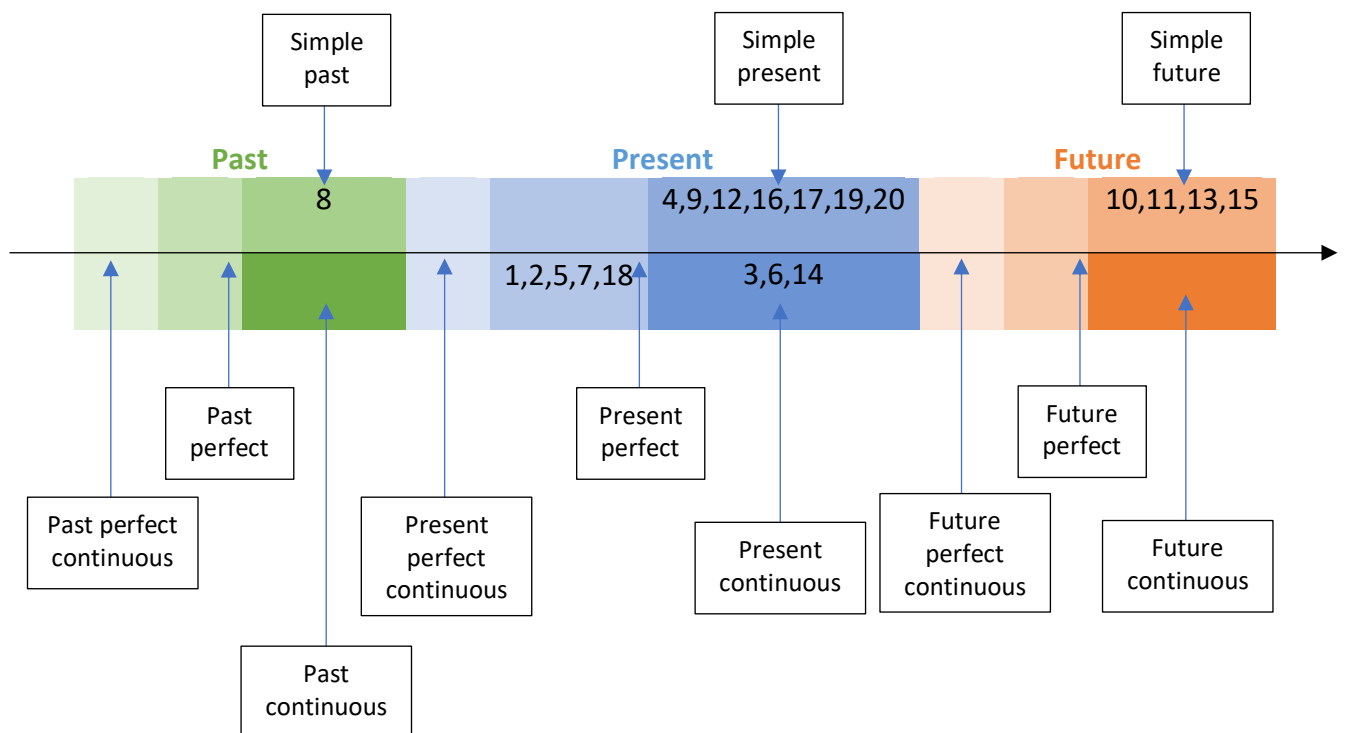
Research Methods (SCS3216)

Assignment 2

Part 1

No.	Sentence	Verb tense
1	Mobile device security has become increasingly important as we become more dependent on mobile devices.	Present perfect
2	Although many user authentication mechanisms have been presented in the past, studies have shown mobile users preferring usability over security	Present perfect
3	Mobile devices are becoming more integrated in our lives.	Present continuous
4	We use it to connect with social media, make mobile payment, carry sensitive information like phone addresses.	Simple present
5	Researcher and industries have proposed many alternatives to this problem such as OTP.	Present perfect
6	Apps are collecting some sort of data whenever a person uses a mobile phone.	Present continuous
7	A researcher has demoed at the RSA Conference that various swiping motion can be used to infer when a user is entering a password.	Present perfect
8	We further proposed a rhythm based authentication scheme.	Simple past
9	This study provides the first proof of concept toward secure user-habit-oriented authentication for mobile devices.	Simple present
10	We will also explore other possible alternative habits to use and study their feasibility on mobile authentication.	Simple future
11	The original data captured will then be processed using the “data transformation” and “zero-shrinkage”.	Simple future
12	In the authentication phase, we propose a Fuzzy ARTMAP (FAM) based authentication scheme.	Simple present
13	We will adopt the fast verification algorithm used in the registration phase.	Simple future
14	For our case, tapping to a music rhythm is a habit for a music lover.	Present continuous
15	We will explain Registration Process and Authentication in detail based on the obtained original data.	Simple future
16	Then, we design a new rhythm based authentication scheme.	Simple present
17	A growing number of smartphones are equipped with a variety of powerful sensors.	Simple present
18	Studies have shown mobile users preferring usability over security.	Present perfect
19	Experimental results show that the proposed scheme has high accuracy in terms of false rejection rate.	Simple present
20	The registration process is performed during a user’s initial log on.	Simple present

Part 2



Reference

J. Seto, Y. Wang and X. Lin, "User-Habit-Oriented Authentication Model: Toward Secure, User-Friendly Authentication for Mobile Devices," in IEEE Transactions on Emerging Topics in Computing, vol. 3, no. 1, pp. 107-118, March 2015, doi: 10.1109/TETC.2014.2379991.