Errata to 2016-17 slides

I am grateful to those who pointed some of these out.

1. On slide 22, the subset defined as

\[ \{ u \in U \mid \forall S \subseteq U. (S \text{ closed under } \mathcal{R}) \implies u \in S \} \]

might be better described as

\[ \bigcap (\forall S \subseteq U. (S \text{ closed under } \mathcal{R})) \]

that is, the intersection of all subsets of U that are closed under \( \mathcal{R} \).

2. On slide 25 - “Closure (part 2)”, the conclusion of the rule at the top is given as \( a \) when it should be \( c \)

3. On slide 34 we say that “We use this theorem as a method of proof” when we should be saying “We use a similar approach as a method of proof”.

4. On slide 57 (and possibly elsewhere), we use the null string symbol (\( \varepsilon \)) when we should be using the symbol for the null regular expression (\( \epsilon \)) in the second-last example. It should be:

\((\epsilon|a)(\epsilon|b)|bb\) is matched by just the strings \( \epsilon, a, b, ab, \) and \( bb \)