

## Errata to 2016-17 slides

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

1. On slide 22, the subset defined as

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

might be better described as

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

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  $\varepsilon$ ,  $a$ ,  $b$ ,  $ab$ , and  $bb$