Bonus slides

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?? ??, 2017

Types of conflicts

R/R

Reduce/Reduce conflicts can happen and should be solved by grammar rewriting.

- Avoid them, the wrong solution might force the parser to run forever!
- Can you devise a grammar for that?

For Heroes only!

```
%start G
%%
G: S 'b' {...};
A: B {...};
B: A {...};
S: A {...};
```

• Will it ever terminate?

For Heroes only!

```
%start G
%%
G: S 'b' {\dots\};
A: B {\dots\};
B: A {\dots\};
S: A {\dots\};
%%
```

• Will it ever terminate? No.

For Heroes only!

• What about this?

The King's grammar!

```
[Inside Yacc specification]
%token STORY
%%
S: S STORY \{\cdot\cdot\cdot\}:
%%
[Inside Lex specification]
%%
"c'era una volta un re, seduto sul
sofa' che chiamo la serva e le disse:
\"raccontami una storia\" e la serva
incomincio' " {return STORY;}
%%
```

 Run Yacc over it and get the error: "Fatal error: start symbol S does not derive any sentence."