

Rewrite your configuration file

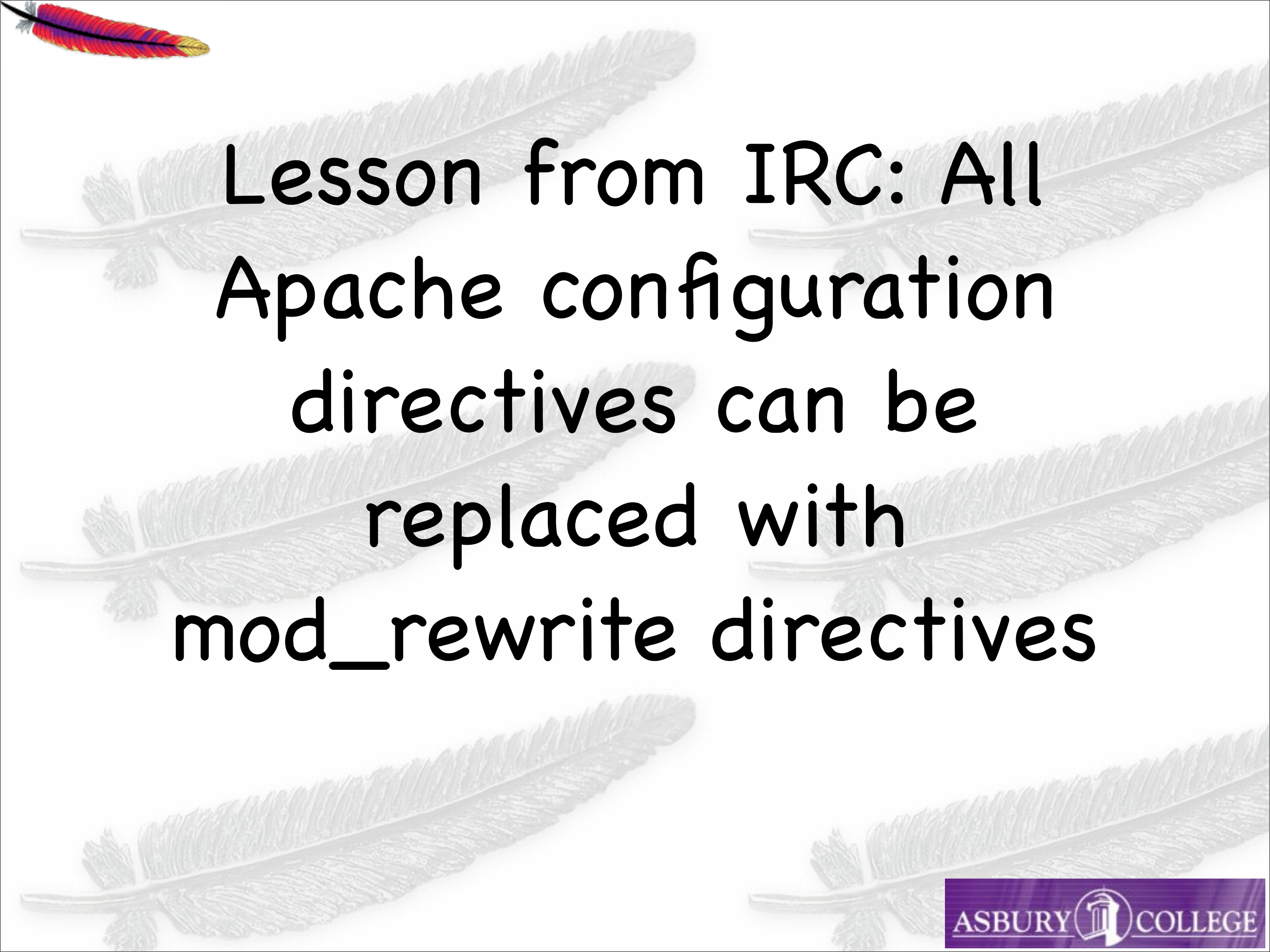
A Lightning Talk By Rich Bowen
ApacheCon US, Atlanta, 2007



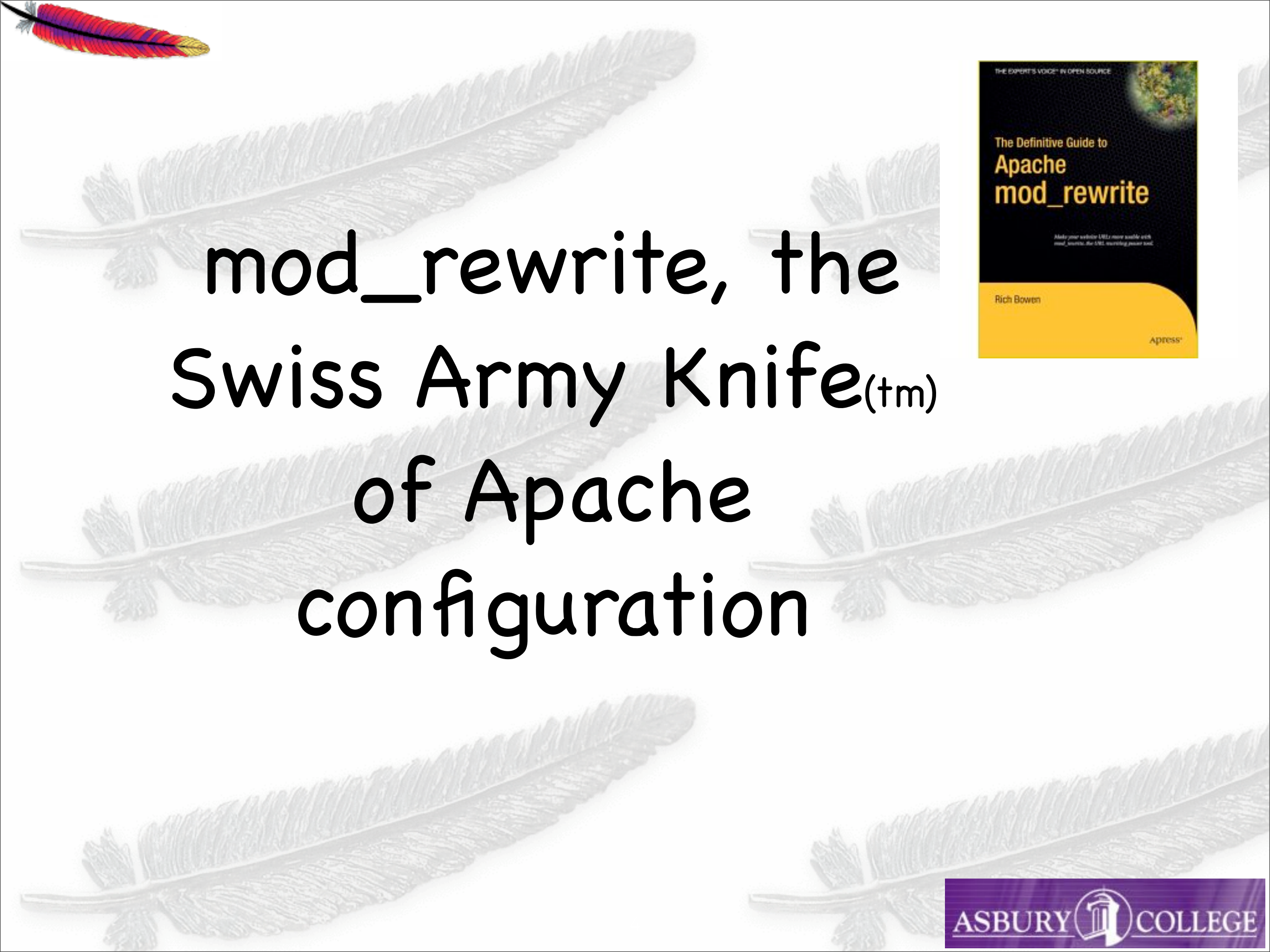
Two years ago



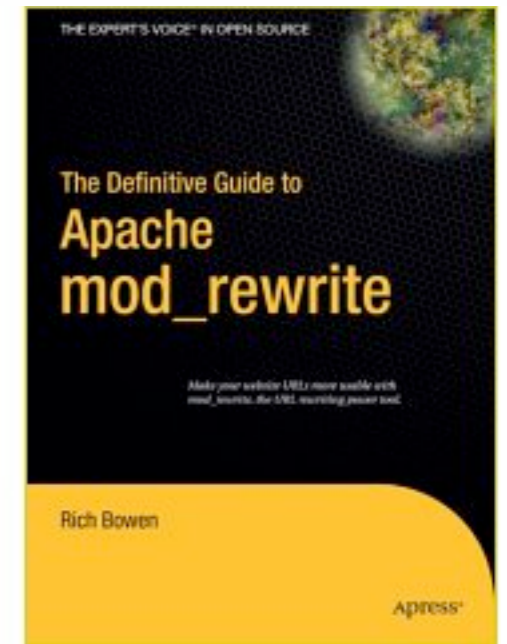
- Apache configuration needs a macro language



Lesson from IRC: All
Apache configuration
directives can be
replaced with
mod_rewrite directives



mod_rewrite, the Swiss Army Knife^(tm) of Apache configuration







How some people
interpret this:





Let's start simple ...





DocumentRoot

```
RewriteRule (.*) /var/www$1
```

- Or, perhaps

```
RewriteRule ^ /var/www%{REQUEST_URI}
```




Alias

- And, if you have files outside of your DocumentRoot ...

```
RewriteRule ^/icons(.*) /var/www/icons$1 [L]
RewriteCond %{REQUEST_URI} !^/icons
RewriteRule ^(.*) /var/www/html$1
```



DirectoryIndex

```
RewriteRule ^(.*)/$ $1/index.html
```

- Ah, but what if the URI doesn't end with /
- What then?!



DirectoryIndex

```
RewriteCond /var/www%{REQUEST_URI} -d  
RewriteCond /var/www/%{REQUEST_URI} !-f  
RewriteRule ^(.*)/?$ $1/index.html [PT,L]
```

```
# Yes, I've actually seen this on IRC  
# Don't try this at home, kids
```




Actual production config ...

```
RewriteCond %{REQUEST_FILENAME}/index.html -f  
RewriteRule / %{REQUEST_URI}/index.html [L]
```

```
RewriteCond %{REQUEST_FILENAME}/index.htm -f  
RewriteRule / %{REQUEST_URI}/index.htm [L]
```

```
RewriteCond %{REQUEST_FILENAME}/index.php -f  
RewriteRule / %{REQUEST_URI}/index.php [L]
```

AKA:

```
# DirectoryIndex index.html index.htm index.php
```




Redirect

```
RewriteRule ^/foo(.*) http://foo.com$1 \  
[R=301,L,NC,NE,QSA,EIEIO]
```



But those are too easy.
How about something
with a little challenge?



UserDir

```
RewriteRule ^~([^/]+)(.*) \  
/home/$1/public_html/$2
```



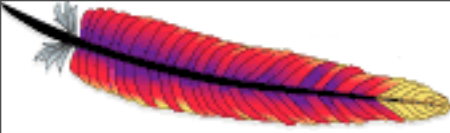
Allow/Deny

```
RewriteCond %{REMOTE_ADDR} !^192.168  
RewriteRule ^ - [F]
```




No, still too easy





LimitRequestLine

RewriteRule .{250,} - [F]



And, to top it off ...





```
<Directory /var/www/private>
```

```
AuthType Basic
```

```
AuthName 'Go Away'
```

```
AuthUserFile /etc/htpasswd
```

```
Require valid-user
```

```
# Make usernames case insensitive
```

```
RewriteCond %{REMOTE_USER} \
```

```
    !(rbowen|krietz|dpitts) [NC]
```

```
RewriteRule ^ - [F,L]
```

```
</Directory>
```




Proposal: mod_config_rewrite



That's all I've got

