```
(?:(?:\r\n)?[ \t])*(?:(?:(?:[^()<>@,;:\\".\[\] \000-\031]+(?:(?:(?:\r\n)?[ \t])+|\Z|(?=[\["()<>@,;:\\".\[\]]))|"(?:[^\"\r\\]|\\.|(?:(?:\r\n)?[ \t]))*"(?:(?:\r\n)?[ \t])*)(?:\.(?:(?:\r\n)?[ \t])*(?:[^()<>@,;:\\".\[\] \000-\031]+(?:(?:(?:\r\n)?[ \t])+|\Z|(?=[\["()<>@,;:\\".\[\]]))|"(?:[^\"\r\\]|\\.|(?:(?:\r\n)?[ \t]))*"(?:(?:\r\n)?[ \t])*))*@(?:(?:\r\n)?[ \t])*(?:[^()<>@,;:\\".\[\] \000-\031]+(?:(?:(?:\r\n)?[ \t])+|\Z|(?=[\["()<>@,;:\\".\[\]]))|\[([^\[\]\r\\]|\\.)*\](?:(?:\r\n)?[ \t])*)(?:\.(?:(?:\r\n)?[ \t])*(?:[^()<>@,;:\\".\[\] \000-\031]+(?:(?:(?:\r\n)?[ \t])+|\Z|(?=[\["()<>@,;:\\".\[\]]))|\[([^\[\]\r\\]|\\.)*\](?:(?:\r\n)?[ \t])*))*|(?:[^()<>@,;:\\".\[\] \000-\031]+(?:(?:(?:\r\n)?[ \t])+|\Z|(?=[\["()<>@,;:\\".\[\]]))|"(?:[^\"\r\\]|\\.|(?:(?:\r\n)?[ \t]))*")*)?;\s*)
```

AGENDA

- Terminology: Regex

- Overview: Regex in Java

- Live Coding

TERMINOLOGY
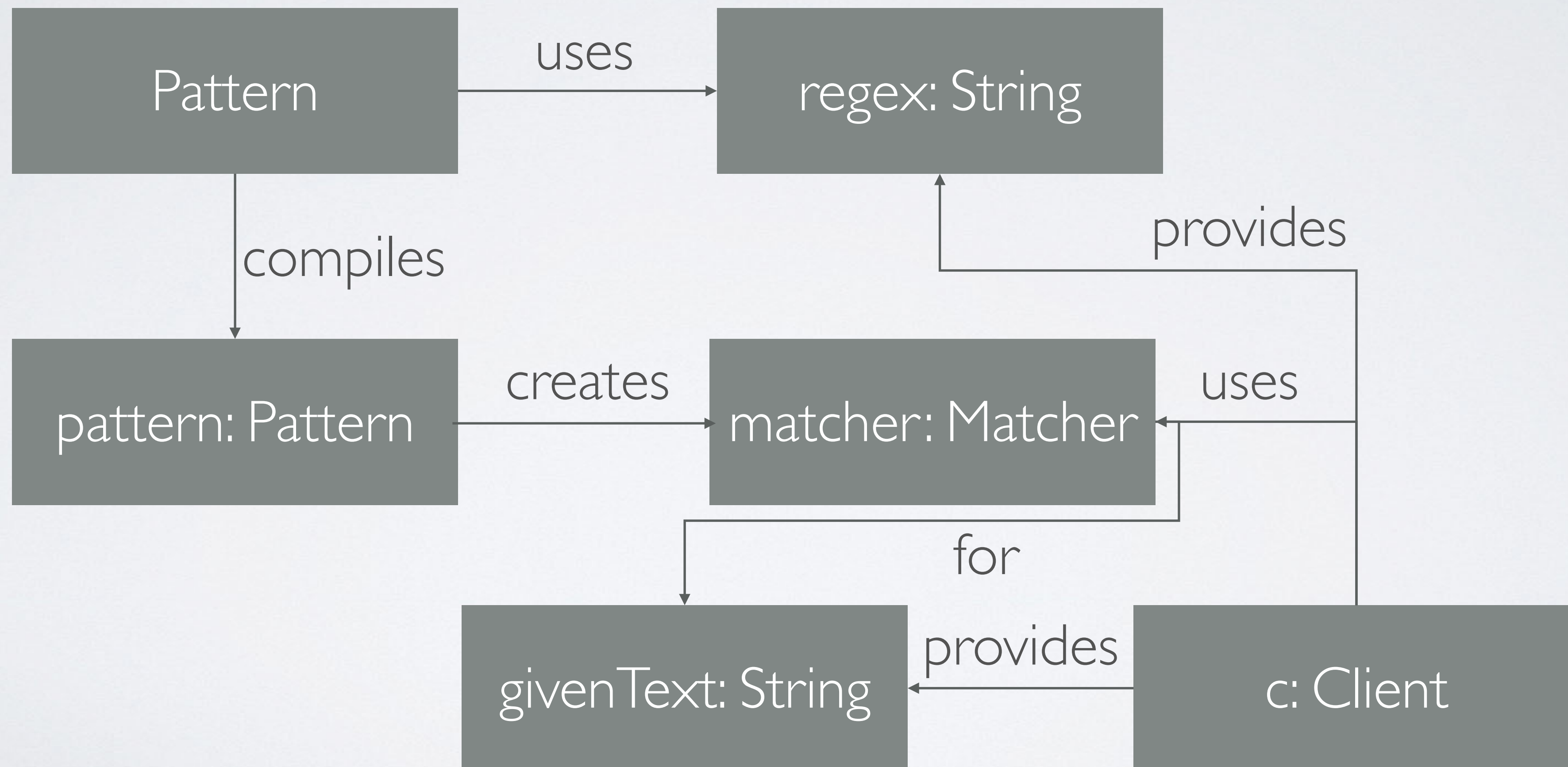
Regex: `text[\w\s]*important`   Text:

> Hey there, I am texting you some important news: DON'T PANIC!

Questions:

- Does the text match at least once this regex?

  - We call this match a group

- Where does a group start in the text? Where does it end?

- Do we have a further group?

OVERVIEW

IN JAVA

```java
Pattern p = Pattern.compile("bauer");

Matcher m = p.matcher("franz bauer and peter bauer");

System.out.println(m.find());
```

INTERFACE OF MATCHER

- find() … tries to find the given pattern in the given string and returns true on success or false otherwise.
  Attention: not idempotent

- group() … returns the subsequence found in the previous find().Throws exception if no subsequence found

- start() … returns start index of subsequence found in the previous find()