

Tutorium Woche 3 - Termin 1

Übungsblatt 2

Nils Pukropp May 16, 2021

INSTITUT FÜR PROGRAMMSTRUKTUREN UND DATENORGANISATION

Übersicht



Vorstellung

Über mich

- · Nils Pukropp, 21 Jahre
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Termine

Termin

TODO: Termine aufzählen

Übungsblatt 2

Korrektur

TODO: Hinweise zur Korrektur


```
public final class StringUtility {
    private StringUtility() {
        throw new
            IllegalStateException(ERROR UTILITY CLASS INSTANTIATION);
capitalize
public static String capitalize(String word) {
    return word.substring(0, 1).toUpperCase() + word.substring(1);
```

countCharacter

```
public static int countCharacter(String word, char character) {
   int count = 0;
   for (char wordCharacter : word.toCharArray()) {
       if (wordCharacter == character) {
            count += 1;
       }
   }
   return count;
}
```

isAnagram

```
public static boolean isAnagram(String word1, String word2) {
      // If the words have a different lengths, they cannot be anagrams
      if (word1.length() != word2.length()) return false;
      String anagram = word2:
      // We do not need the indices so we use foreach
      for (final char character : word1.toCharArray()) {
          final int index = anagram.indexOf(character):
          if (index == -1) return false:
          anagram = removeCharacter(anagram, index);
      return anagram.isEmpty();
12 }
```

```
isPalindrome

1 public static boolean isPalindrome(String word) {
2    return word.equals(reverse(word));
3 }
```

```
isPalindrome
public static boolean isPalindrome(String word) {
    return word.equals(reverse(word));
removeCharacter
public static String removeCharacter(String word, int index) {
    return word.substring(0, index) + word.substring(index + 1);
```

reverse

```
public static String reverse(String word) {
      String reverse = "";
      // We need access to the indices of the characters,
      // so we have to use for
      // instead of foreach
      for (int i = word.length() - 1; i >= 0; i--) {
          reverse += word.charAt(i);
      return reverse;
12 }
```

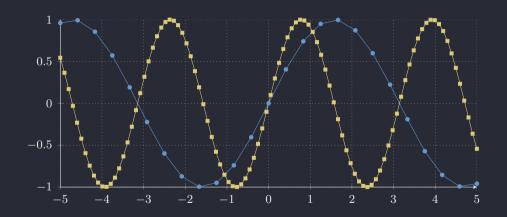
Blocks

Three different block environments are pre-defined and may be styled with an optional background color.

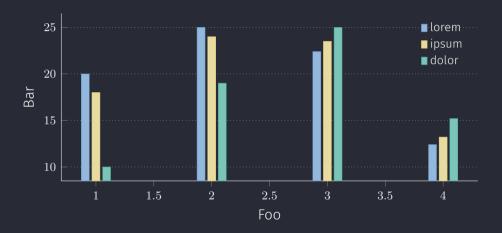
Default	Default
Block content.	Block content.
Alert	Alert
Block content.	Block content.
Example	Example
Block content.	Block content.

$$e = \lim_{n \to \infty} \left(1 + \frac{1}{n} \right)^n$$

Line plots



Bar charts



Quotes

Veni, Vidi, Vici

Summary

Get the source of this theme and the demo presentation from

github.com/matze/mtheme

The theme *itself* is licensed under a Creative Commons Attribution-ShareAlike 4.0 International License.



