# replaceAll, replace

- description : 정규표현식을 사용한 replaceall 활용 연구
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## Case study

1. 이미지 소스의 base64문자열 제거 (<img src="data-image/png;base64, ....."/> → <img src=""/>)

```
String testStr="<img src=\" ...
5XTk8evT\">";
System.out.println(testStr.replaceAll("src=\"data:image[^\"]*\"",
"src=\"\""));
```

2. http://www.repia.com → <a href="http://www.repia.com" target="blank">www.repia.com</a>(링크추가)

```
String testStr="http://www.repia.com ";
System.out.println(testStr.replaceAll("(http(s)?://([^ ]*))", "<a
href=\"$1\" target=\"blank\">$3</a>"));
```

> 괄호 순서대로
> (http(s)?://([^ ]*)) ⇒ $1
> (s) ⇒ $2
> ([^ ]*) ⇒ $3

```
// Source
public static void main(String[] args)
{
    String[] linkHostList = {
"http://www.sit.re.kr/kr/board/result/boardView.do?bbsIdx="
                            ,
"https://scienceon.kisti.re.kr/srch/selectPORSrchTrend.do?cn="
                            ,
"https://www.kosen21.org/info/kosenReport/reportView.do?articleSeq=" };

    for(String linkHost: linkHostList) {
        System.out.printf("%s -> %s\n", linkHost,
linkHost.replaceAll("(http(s)?://([^/]*)(/.*))", "$3"));
    }
}
// Output
http://www.sit.re.kr/kr/board/result/boardView.do?bbsIdx= -> www.sit.re.kr
```

```
https://scienceon.kisti.re.kr/srch/selectPORSrchTrend.do?cn= ->
scienceon.kisti.re.kr
https://www.kosen21.org/info/kosenReport/reportView.do?articleSeq= ->
www.kosen21.org

// Output <= $1
http://www.sit.re.kr/kr/board/result/boardView.do?bbsIdx= ->
http://www.sit.re.kr/kr/board/result/boardView.do?bbsIdx=
https://scienceon.kisti.re.kr/srch/selectPORSrchTrend.do?cn= ->
https://scienceon.kisti.re.kr/srch/selectPORSrchTrend.do?cn=
https://www.kosen21.org/info/kosenReport/reportView.do?articleSeq= ->
https://www.kosen21.org/info/kosenReport/reportView.do?articleSeq=

// Output <= $2
http://www.sit.re.kr/kr/board/result/boardView.do?bbsIdx= ->
https://scienceon.kisti.re.kr/srch/selectPORSrchTrend.do?cn= -> s
https://www.kosen21.org/info/kosenReport/reportView.do?articleSeq= -> s

// Output <= $4
http://www.sit.re.kr/kr/board/result/boardView.do?bbsIdx= ->
/kr/board/result/boardView.do?bbsIdx=
https://scienceon.kisti.re.kr/srch/selectPORSrchTrend.do?cn= ->
/srch/selectPORSrchTrend.do?cn=
https://www.kosen21.org/info/kosenReport/reportView.do?articleSeq= ->
/info/kosenReport/reportView.do?articleSeq=
```

3. 한줄로 간단하게 ltrim, rtrim

```
String testStr=str.replaceAll("^\\s+",, ""); //ltrim
String testStr=str.replaceAll("\\s+$",, ""); //rtrim
```

> '^' mean 처음부터 매칭
> '$' mean 라인마지막 매칭
> \\s+ mean white space

# Ref

- Pattern, Regular Experssion
- Regular 온라인 Test

# Tip

# Troubleshooting

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