

Busting Plagiarism: Tool/s

Cedric Angelo M. Festin

Mindmap of Plagiarism^[Car10] - Computer Science Department

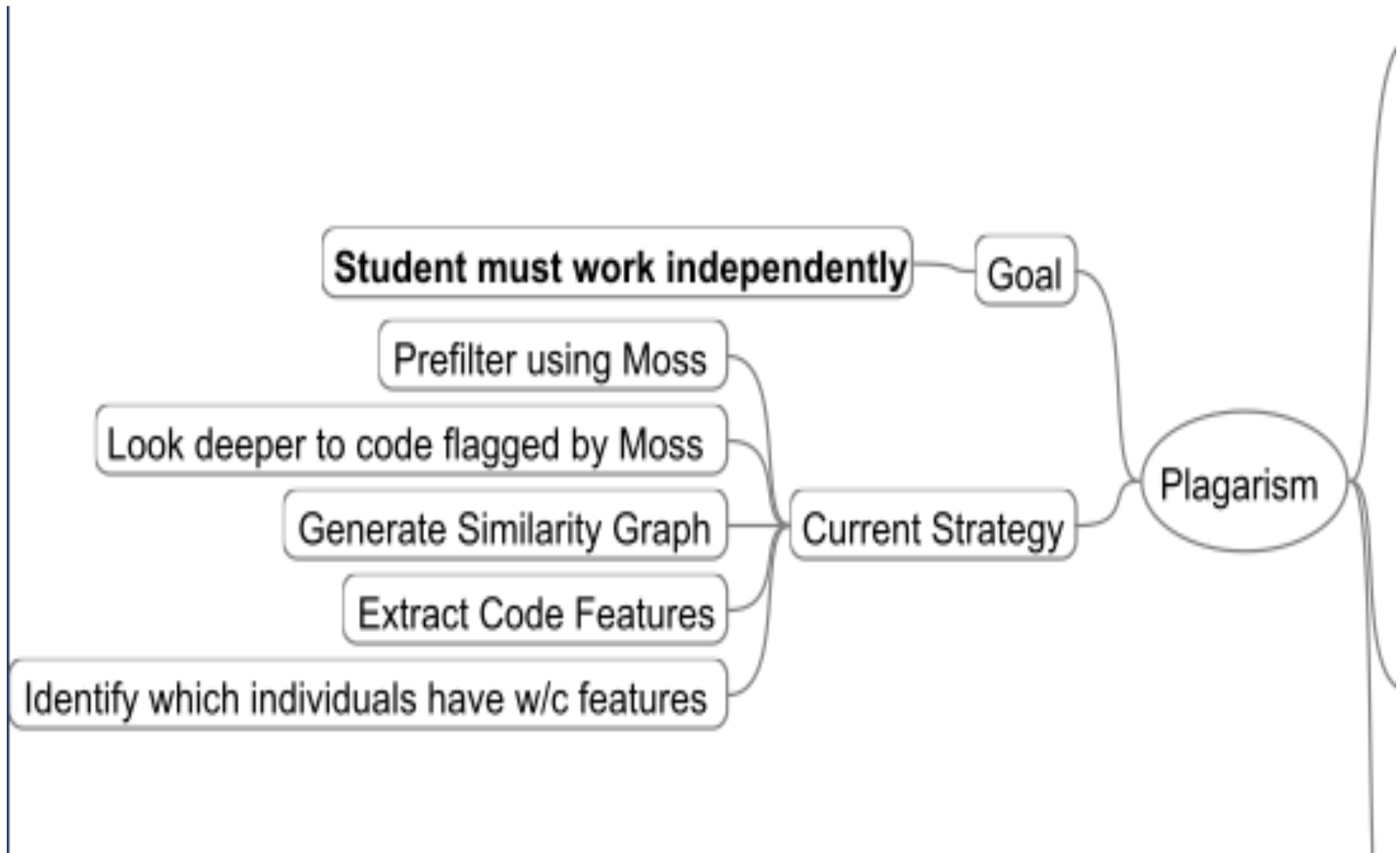


Measure of Software Similarity (MOSS)

[M10]

- detects software plagiarism in many programming languages (C flavors, Java, etc ...)
- an Internet service
- based on the paper by Schleimer, Wilkerson, Aiken^[SWA03]
- <http://theory.stanford.edu/~aiken/moss/>

Current Strategy^[Car10]



Running MOSS

Moss Results











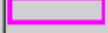
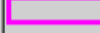




Options -l c -m 100000

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File 1	File 2	Lines Matched
codes-suspected/... (97%)	codes-suspected/... (97%)	177
codes-suspected/... (95%)	codes-suspected/... (93%)	166
codes-suspected/... (94%)	codes-suspected/... (92%)	159
codes-suspected/... (80%)	codes-suspected/... (78%)	127
codes-suspected/... (79%)	codes-suspected/... (80%)	127
codes-suspected/... (77%)	codes-suspected/... (75%)	115
codes-suspected/... (98%)	codes-suspected/... (98%)	199
codes-suspected/... (51%)	codes-suspected/... (57%)	216

Side-by-side comparison

(43%)		(43%)	
244-268		422-470	
322-335		517-535	
338-360		539-585	
430-447		714-730	
306-316		491-510	
362-378		500-510	

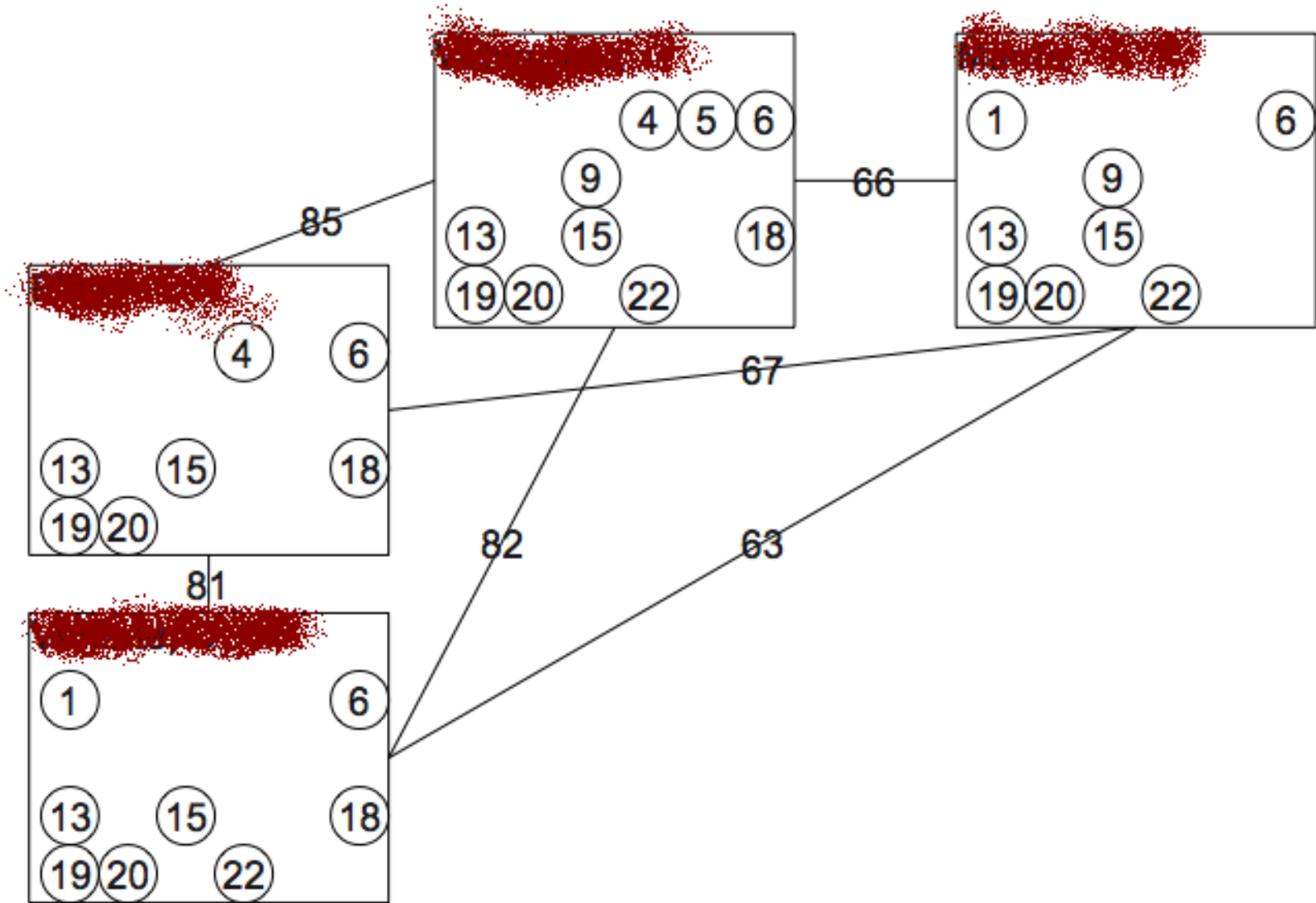
```
if(!dishBeingCooked.currentAction.equalsIgnoreCase("cook")){
    chefIsCooking = false;
    assistantsVector.add(dishBeingCooked);
    dishBeingCooked = null;
}else{
    if(readyQueueDishes.size()!=0){
        readyQueueDishes.add(dishBeingCooked);
        dishBeingCooked = readyQueueDishes.remove(0);
        chefIsCooking = true;
    }
}
}else{
    chefIsCooking = false;
    isDishDone = true;
    doneDish = dishBeingCooked;
    dishBeingCooked = null;
}
```

```
ue;
Output(TIME);
```

```
if(!dishBeingCooked.currentAction.equals("cook")){
    isCookBusy=false;
    assistantsVector.add(dishBeingCooked);
    dishBeingCooked=null;
}
else{
    if(readyQueueDishes.size()!=0){
        readyQueueDishes.add(dishBeingCooked);
        dishBeingCooked = readyQueueDishes.remove(0);
        isCookBusy=true;
    }
}
}
else{
    isCookBusy=false;
    isDone=true;
    dish_temp = dishBeingCooked; // See this
    dishBeingCooked=null;
}
```

```
}
```

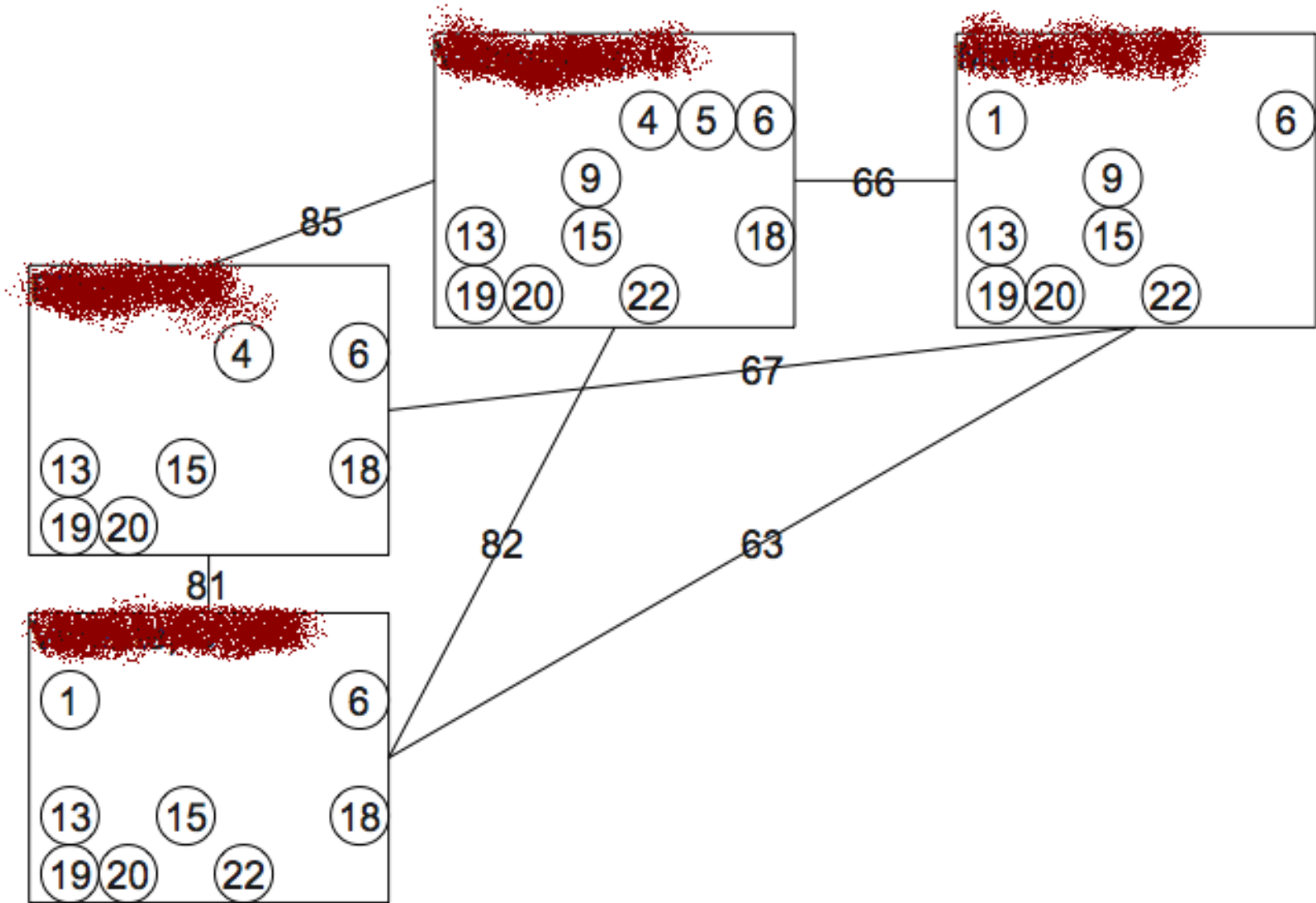
Similarity Graph with TAGS



Code Features (TAGS)

Tag Number	Description
1	Program uses an iterative exponent function
2	Program uses a recursive exponent function
3	Program uses built-in exponent function from math.h library
4	Program has an incorrect exponent function
5	Program has comments
6	Program has descriptive variable names
7	Program declares functions (function prototypes) before definition
8	Program uses constants
9	Program checks file open (fopen) function for failure
10	Program is decomposed into functions (i.e. has functions other than main function)
11	Program uses while loops in main function
12	Program uses do-while loops in main function

Similarity Graph with TAGS



Program Flow and Nesting

```
if fp == NULL
if fp != NULL
  if "aaa" and "zzz"
if "aaa"
  do while "zzz"
  do while "x"
    if "zzz"
    else if "U"
    else if "P"
  if "zzz"
  for counter1>=0
    if "neg"
      for counter2<=eCounter
  if "abs"
    if atoi<0
    if atoi>=0
    for counter2<=eCounter
  for counter1>=0
    if "^"
      for counter2<=eCounter-1
    if "%"
      for counter2<=eCounter-1
  # no useless loop
  for counter1<eCounter
```

```
if fp1 == NULL
if fp1 != NULL
  if "aaa"

  do while "zzz"
  do while "x"
    if "zzz"
    if "U"
    if "P"
  if "zzz"
  for y>=0
    if "neg"
      for z<=a
  if "abs"
    if atoi>=0
    if atoi<0
    for z<=a
  for y=0
    if "^"
      for z<a-1
    if "%"
      for z<a-1
  for y<=a # useless loop
  for y<a
```


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Obama's Inaugural Speech - March 23, 2009 I think t opinion co starts on	624 words (1.8 pages)	Better Essays	[preview]
Barack O Senator fr mother, h	798 words (2.3 pages)	Strong Essays	[preview]
Barack O in a war th currently the most viable agent of change. It seems as	1740 words (5 pages)	Better Essays	[preview]

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First 1100 characters of *Obama's Inaugural Speech*:

No Works Cited

Length: 798 words (2.3 double-spaced pages)

Rating: Purple 

March 23, 2009

I think that Barack Obama's Inaugural speech was extremely inspiring, motivating, and most of all in my opinion comforting to a rehabilitating nation in dire need. In the introductions and openings of the majority of Barack Obama's speech in my opinion he starts on a "down note", but on the other hand; He was generally had an optimistic and friendly tone throughout his inaugural address you can say personally from a American citizen's perspective it is safe to say that it was even "touching". I think that consistently through Barack Obama's inaugural speech he concentrated on the current economic crisis, the war, and the problems at hand concerning the peoples of America and also the world in general,

Selecting (result^[123])

First 1100 characters of Obama's Inaugural Speech:

No Works Cited

Length: 798 words (2.3 double-spaced pages)

Rating: Purple ■

March 23, 2009

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It is going to cost you (result^[123])

First 1100 characters of *Obama's Inaugural Speech*:

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Length:

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March 2



I think that Barack Obama's Inaugural speech was extremely inspiring, motivating, and most of all in my opinion comforting to a rehabilitating nation in dire need. In the introductions and openings of the majority of Barack Obama's speech in my opinion he starts on a "down note", but on the other hand; He was generally had an optimistic and friendly tone throughout his inaugural address you can say personally from a American citizen's perspective it is safe to say that it was even "touching". I think that consistently through Barack Obama's inaugural speech he concentrated on the current economic crisis, the war, and the problems at hand concerning the peoples of America and also the world in general,

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By [Mary Beth Marklein](#), USA TODAY



Enlarge

Illustration by Alejandro Gonzalez,
USA TODAY

Melinda Rieboldt's kids were Googling her name for fun when they found it: A college paper she had helped write as part of a group project while pursuing an MBA. It was available on at least five websites that sell research papers to students.

Rieboldt, who graduated last year from the University of Phoenix in [Pleasanton, Calif.](#), doesn't know how the websites got the paper, on the topic of global communications. Nor, she says, do her five co-authors.

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"None of us did it," she says. But they're not pleased. The course was a lot of work, she says. Now, someone else is "making a profit."

Rieboldt isn't the first person to wonder if there isn't something illegal about that. But with few exceptions, and for a variety of practical and legal reasons, term-paper mills have mostly managed to stay out of legal trouble, says [Stetson University School of Law](#) Dean Darby Dickerson. She notes in a [Villanova Law Review](#) article that cheating and plagiarism "are as common on college campuses as

dirty laundry and beer."

Essay Mills^[TB]

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March 20, 2009

Cheating Goes Global as Essay Mills Multiply



Pius Utomi Ekpei for The Chronicle

Paul Arhewe lives in Nigeria and has been writing for essay mills since 2005. He says the companies give customers "another way of learning."

By Thomas Bartlett

The orders keep piling up. A philosophy student needs a paper on Martin Heidegger. A nursing student needs a paper on dying with dignity. An engineering student needs a paper on electric cars.

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Probable? (from text of submission)

"I think that Barack Obama's Inaugural speech was extremely inspiring, motivating, and most of all in my opinion comforting to a rehabilitating nation in dire need. In the introductions and openings of the majority of Barack Obama's speech in my opinion he starts on a "down note", but on the other hand; He was generally had an ..."

...

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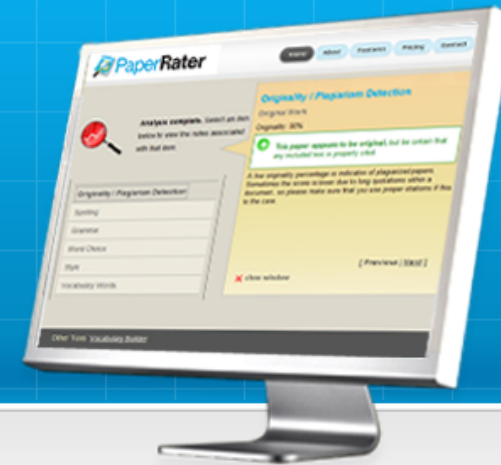
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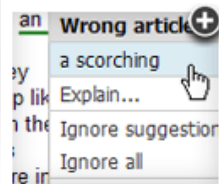
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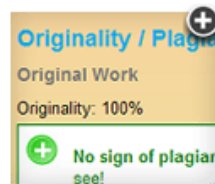
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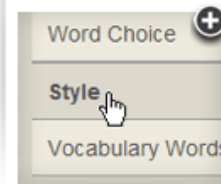
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An important theme in Dickens novel, Great Expectations, is that of a broken heart. Many characters experience the all to real emotion of a broken heart but each character deals with it differently. Miss Havisham has the most spiteful and revengeful nature to her broken heart and makes Estella into the breaker of men's hearts to inflict the same pain that a man once inflicted on her. Pip is the top man on Havisham's list and she continually sets Pip up for heart break and

1 Citation Needed Citation tips
becomes physically sick from his broken heart. Joe's heart is broken as Pip receives his great expectations and Pip's life as an apprentice to Joe vanishes and Joe's heart break only increases his love for Pip. Each character who experiences heart break has a decision to make, either to forgive those who broke their heart and be aware not to break another's heart or to hold onto the horrible feeling of heartbreak until it destroys any future happiness with the constant pursuit of revenge.

The cause of all heart break within Great Expectations festers from the broken heart of Ms. Havisham. Adopting a young girl who she slowly turns into a Frankensteinian monster Ms. Havisham secures an intolerable future for herself that can only end in flames. Ms. Havisham portrays the broken heart that never healed and how all future life cannot exist if the past has not been dealt with properly by healing oneself, so one may live again. This past is relived consistently as Ms. Havisham lives in a house of cobwebs where a clock displays to the minute the time when her heart was broken, where the wedding cake sits rotting on the table where it was placed long ago, and she remains in the

2 Citation Needed Citation tips
hurt pride must relive her past pain consistently to keep it alive so she may feed her revengeful spirit with it. This constant reliving of the pain is a cycle in which she can only live, it is now impossible to get out of until the moment her scheme succeeds and she breaks Pips heart.

Pip himself is a breaker of hearts but it is Pip's heart break which is the focus of the story. The heart break Pip experiences is inevitable yet he grows through that pain to live a new life and become a new loving person able to understand the pains of the world. The beginning of the journey to the final moment Pip's heart is broken begins with the breaking of Joe's heart when Pip leaves to become a gentleman. Pip is satisfied with his life and his warm friends until he is hired by an embittered wealthy woman, Miss Havisham, as an occasional companion to her and her beautiful but haughty adopted daughter, Estella. Pip's happy but simple life no longer exists after he first visits Havisham and falls

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Q: Unlimited resubmitting?



Q: Side by side comparison?



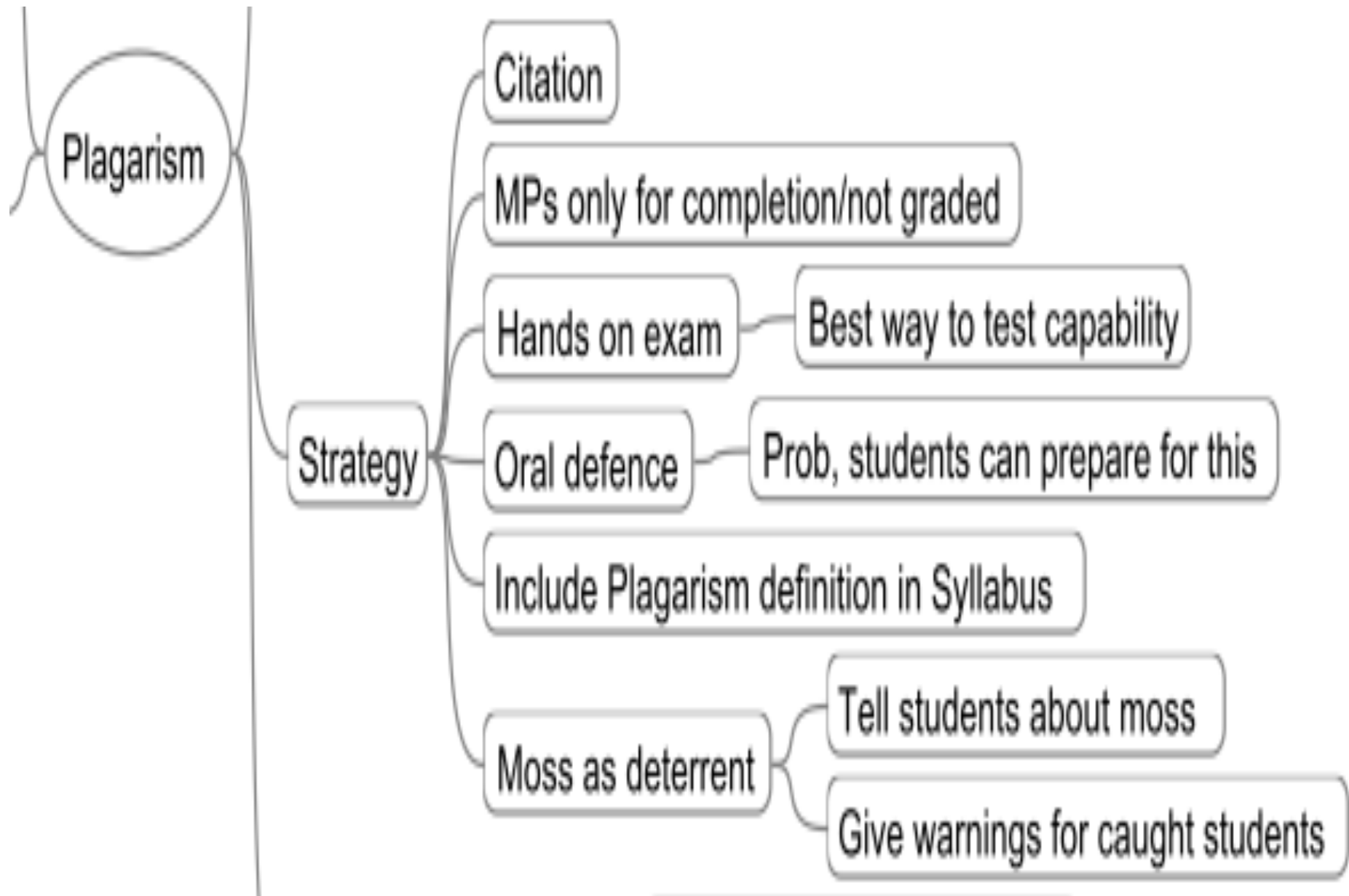
Q: Links to plagiarised work?



Q: Free?



New Strategy^[Car10]



Next Steps?

- tools can only guide you after something has already happened
- tools can be useful before it actually happens
- intuition as a teacher, perhaps getting to know your students more
- students knowing what can be considered plagiarism, use some of the tools

Computer Science Disciplines

- natural language processing (NLP)
- artificial intelligence (AI)
- machine learning
- information retrieval (IR)
- computational linguistics
- data mining
- advanced pattern matching (APM)

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