

The title of your thesis or dissertation should be typed here

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Contents

- 1 Lists
- 2 Columns
- Figures
- 4 Description
- Tables

- 6 Blocks
- Definition
- 8 Example
- 9 Theorem
- 10 Hyperlinks
- Algorithm

Overview

Overview

• The trivial Set Cover algorithm has running time of $\mathcal{O}(2^n)$.

Overview

- The trivial Set Cover algorithm has running time of $\mathcal{O}(2^n)$.
- bla, bla, bla...

Lists - Itemize

- Point A
- Point B
 - part 1
 - \bullet part 2
- Point C
- Point D

• Point A

- Point A
- Point B

- Point A
- Point B
 - part 1

- Point A
- Point B
 - part 1
 - \bullet part 2

- Point A
- Point B
 - part 1
 - part 2
- Point C

- Point A
- Point B
 - part 1
 - part 2
- Point C
- Point D

Lists - Enumerate

- Point A
- Point B
 - part 1
 - part 2
- Opening Point C
- Point D

Lists - Enumerate (Roman Numerals)

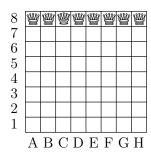
- Point A
- Point B
 - negative part 1
 - part 2
- Point C
- Point D

Columns

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

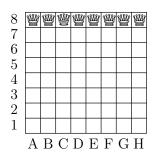
Domination on a Chessboard

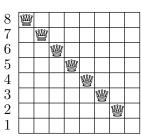
Domination on a Chessboard



Lists Columns Figures Description Tables Blocks

Domination on a Chessboard

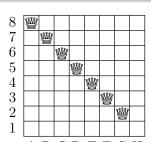




ABCDEFGH

Domination on a Chessboard

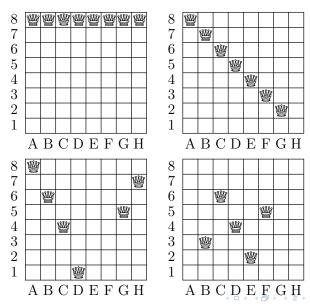




ABCDEFGH



Domination on a Chessboard



Single figure with caption



Figure: This is an caption!

- API Application Programming Interface
- LAN Local Area Network
- ASCII American Standard Code for Information Interchange

Tables

Competitor Name	Swim	Cycle	Run	Total
John T	13:04	24:15	18:34	55:53
Norman P	8:00	22:45	23:02	53:47
Alex K	14:00	28:00	n/a	n/a
Sarah H	9:22	21:10	24:03	54:35

Table: Triathlon results

Lists Columns Figures Description Tables Blocks

Blocks

Block Title

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Alert Block Title

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Definition

Then there's the definition environment which produces a standard ColorA color block but with the title already specified as 'definition'.

```
\begin{definition}
A prime number is a number that...
\end{definition}
```

Definition

A prime number is a number that...

Example

Next there's the example environment which produces a green block with the title 'Example'.

```
\begin{example}
Lorem ipsum dolor sit amet...
\end{example}
```

Example

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Theorem

There is also a group of blocks that are especially useful for presenting mathematics. For example the 'theorem' environment, the 'corollary' environment and the 'proof' environment.

```
\label{eq:constraints} $a^2+b^2=c^2$$\end{theorem}$$\begin{corollary}$$x+y=y+x$$\end{corollary}$$\begin{proof}$$\omega+\phi=\epsilon$$\end{proof}$$
```

Theorem Blocks

Theorem (Pythagoras)

$$a^2 + b^2 = c^2$$

Corollary

$$x + y = y + x$$

Proof.

$$\omega + \phi = \epsilon$$



Hyperlink

Before we can create any hyperlinks we need to tag the frames we want to link to using the ommand.

click here (section 1 page) columns page (* pictures page)



A trivial Set Cover algorithm

Algorithm 1: MSC(S, U)

```
: A set cover instance (S, \mathcal{U}) and a variable S_{\text{dom}}.
     Output: A minimum set cover of (S, U).
 1 if S = \emptyset then
     return Ø;
 3 Let S \in \mathcal{S} be a set of maximum cardinality;
 4 C_1 = \{S\} \cup MSC(\{S' \setminus S \mid S' \in \mathcal{S} \setminus \{S\}\}, \mathcal{U} \setminus S);
 5 C_2 = MSC(S \setminus \{S\}, \mathcal{U});
 6 \mathcal{S}_{\text{dom}} \leftarrow \emptyset:
 7 if \mathcal{U} \subseteq \mathcal{C}_1 then
            \mathcal{S}_{\text{dom}} \leftarrow \mathcal{C}_1;
           if \mathcal{U} \subseteq \mathcal{C}_2 then
                    if |\mathcal{C}_2| < |\mathcal{C}_1| then
10
                     \mathcal{S}_{\text{dom}} \leftarrow \mathcal{C}_2;
11
```

12 return S_{dom} ;

References





