Getting Started

slnwong

Contents

1	Environments	2
2	Tikz	2
3	Math	9

1 Environments

Definition 1.1

This is a definition. Usually we have some **vocab** as well.

Definition 1.2 (Defn)

For shorthand, we can use 'defn'. We can also name the environment.

Theorem 1.3

This is a theorem, or 'thm' for short.

Proposition 1.4

This is a proposition, or 'prop' for short.

Lemma 1.5

This is a lemma, or 'lem' for short.

Corollary 1.6

This is a corollary, or 'col' for short.

Example 1.1

This is an example.

Note.

This is a note.

Note (Named Note).

Notes can have names too!

2 Tikz

Here is a simple graph with 'vertex' nodes.



We can also omit naming the nodes, in which case they are implicitly named $1, 2, \dots, n$.



We can omit labels for any node. We can also use 'bvertex' if we just want a black dot without labels, or nothing for just an unstyled node with a label



• --- •

a h

We can style (decorate) the edges, e.g. with zigzag lines. We can also just simply color them.

2 \\\\\(1)

(3)—(4)

We can put labels outside of the node as well.



$$\underbrace{3}_{\frac{3}{4}} \underbrace{4}$$

We can also put labels on edges.

$$3 - 4$$

Arcs.

$$3 \longrightarrow 4$$

3 Math

Here is an optimization problem.

$$\begin{array}{rcl}
\min & w^T x \\
\text{s.t.} & x(\delta(\bar{v})) - x(\delta(v)) &= b_v \quad \forall v \in N \\
& x \geq \mathbf{0}
\end{array}$$

\mathbf{Index}

vocab, 2