


```
// The paper contains a single-column abstract
// The abstract should be centered
#align(center)[
  #set par(justify: false) //doesn't affect the
remainder of the document
  *Abstract* \
  #lorem(80)
]
```

Tip: use variables

By saving the paper title in a variable, so that we do not have to type it twice.

```
#let title = [
  A fluid dynamic model for glacier flow
]

#set page(
  header: align(
    right + horizon,
    title,
  ),
)

#align(
  center,
  text(17pt)[
    *#title*
  ],
)
```

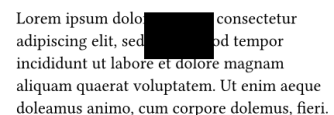
Adding columns

To switch our paper to a two-column layout, simply amend our page set rule with the columns argument. However, by adding columns: 2 to the argument list, we have wrapped the whole document in two column.

To keep title, authors and abstract spanning the whole page, we can wrap them in a function called place. It expects an alignment and the content it should place. Using the named scope argument, we can decide if the items should be placed relative to the current column or its parent.

What's more, if no other arguments are provided, place takes its content out of the flow of the document, and positions it over the other content without affecting the layout of other content in its container. For example:

```
#place(
  top + center,
  rect(fill: black),
)
#lorem(30)
```



Lorem ipsum dolor sit amet, consectetur
 adipiscing elit, sed do eiusmod tempor
 incididunt ut labore et dolore magnam
 aliquam quaerat voluptatem. Ut enim aequa
 doleamus animo, cum corpore dolemus, fieri.

Since the text below the block acts like as if there was nothing, and we don't want title and others cover the main text, we pass the argument float: true to place. Also, we remove #set align(center)s inside it since they inherit the center alignment from the placement.

```
#set page(
  paper: "us-letter",
  header: align(
    right + horizon,
    title
  ),
  numbering: "1",
  columns: 2,
)

#place(
  top + center,
  float: true,
  // be placed relative to its parent (page)
  scope: "parent",
  // provide the space between it and the body
  clearance: 2em,
)[
  ...

  #par(justify: false)[
    *Abstract* \
    #lorem(80)
  ]
]
```

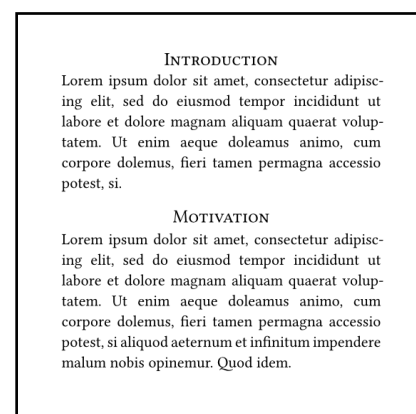
```
= Introduction
#lorem(300)
```

```
// here is a second level headings,
// the example on official website seems wrong
== Related Work
#lorem(200)
```

Adding headings

By writing our own heading show rule, we can style our headings.

```
// First level section headings should be 13pt,
// centered, and rendered in small capitals
#show heading: it => [
  #set align(center)
  #set text(13pt, weight: "regular")
  #block(smallcaps(it.body))
]
```



Now, there's only one rule left. To make second level headings looks different from the firsts, we use a where selector on our set rule. It's a method we can call on headings (and other elements) that allows us to filter them by their level. We can use it to differentiate between section and subsection headings:

```
#show heading.where(  
  level: 1  
) : it => block(width: 100%)[  
  #set align(center)  
  #set text(13pt, weight: "regular")  
  #smallcaps(it.body)  
]  
  
#show heading.where(  
  level: 2  
) : it => text(  
  size: 11pt,  
  weight: "regular",  
  style: "italic",  
  it.body + [.] ,  
)
```

Review

Now, all guidelines are done perfectly. We learn to use functions and the where method, and custom heading styles. The paper is a great success! Here is the final work:

A fluid dynamic model for glacier flow

A fluid dynamic model for glacier flow

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Abstract

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim aequae doleamus animo, cum corpore dolemus, fieri tamen permagna accessio potest, si aliquod aeternum et infinitum impendere malum nobis opinemur. Quod idem licet transferre in voluptatem, ut postea variari voluptas distinguere possit, augeri amplificarique non possit. At etiam Athenis, ut e patre audiebam facete et urbane Stoicos irridente, statua est in quo a nobis philosophia defensa et collaudata est, cum id, quod maxime placeat, facere possimus, omnis.

Motivation. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim aequae doleamus animo, cum corpore dolemus, fieri tamen permagna accessio potest, si aliquod aeternum et infinitum impendere malum nobis opinemur. Quod idem licet transferre in voluptatem, ut postea variari voluptas distinguere possit, augeri amplificarique non possit. At etiam Athenis, ut e patre audiebam facete et urbane Stoicos irridente, statua est in quo a nobis philosophia defensa et collaudata est, cum id, quod maxime placeat, facere possimus, omnis voluptas assumenda est, omnis dolor repellendus. Temporibus autem quibusdam et aut officiis debitis aut rerum necessitatibus saepe eveniet, ut et voluptates repudiandae sint

et molestiae non recusandae. Itaque earum rerum defuturum, quas natura non depravata desiderat. Et quem ad me accedis, saluto: 'chaere', inquam, 'Tite' lictores, turma omnis chorusque: 'chaere.

Problem Statement. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim aequae doleamus animo, cum corpore dolemus, fieri tamen permagna accessio potest, si aliquod aeternum et infinitum impendere malum nobis opinemur. Quod idem licet transferre in voluptatem, ut.

RELATED WORK

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim aequae doleamus animo, cum corpore dolemus, fieri tamen permagna accessio potest, si aliquod aeternum et infinitum impendere malum nobis opinemur. Quod idem licet transferre in voluptatem, ut postea variari voluptas distinguere possit, augeri amplificarique non possit. At etiam Athenis, ut e patre audiebam facete et urbane Stoicos irridente, statua est in quo a nobis philosophia defensa et collaudata est, cum id, quod maxime placeat, facere possimus, omnis voluptas assumenda est, omnis dolor repellendus. Temporibus autem quibusdam et aut officiis debitis aut rerum necessitatibus saepe eve-

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