

sandbox

Student Group

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Exercise E1.7.1 Power loss and efficiency II

A water pump ($\eta_{\text{P}} = 60\%$) has an electric motor drive ($\eta_{\text{M}} = 90\%$). The pump has to pump 500 l water per minute up to 12 m difference in height.

- What must be the rated power of the motor?
- What current does the motor draw from the 230 V mains? (assumption: the 230 V is a DC value and also the current is DC)

Exercise E1.7.2 Power loss and efficiency II

A water pump ($\eta_{\text{P}} = 60\%$) has an electric motor drive ($\eta_{\text{M}} = 90\%$). The pump has to pump 500 l water per minute up to 12 m difference in height.

- What must be the rated power of the motor?
- What current does the motor draw from the 230 V mains? (assumption: the 230 V is a DC value and also the current is DC)

Exercise 1.7.4 Power loss and efficiency II

A water pump ($\eta_{\text{P}} = 60\%$) has an electric motor drive ($\eta_{\text{M}} = 90\%$). The pump has to pump 500 l water per minute up to 12 m difference in height.

- What must be the rated power of the motor?
- What current does the motor draw from the 230 V mains? (assumption: the 230 V is a DC value and also the current is DC)

1. Nummerierter Listenpunkt
2.
$$D = \left\{ \frac{\Psi}{A} \right\} \quad \text{\textbackslash Test \textbackslash end\textbackslash align*}$$
3. f

Footer content here.

Reveal.js Test

This is a test suite for the Reveal.js plugin.

These are notes. They are only shown on the wiki page.

- Lists in notes are always NOT incremental

- This is because you would have to press for each list entry the next button without seeing anything

```
echo 'Hello World'; // code block inside notes
```

Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labor

Header level test

Test, if an H3 section following an H1 section is appended horizontally or vertically.

Header level test

Test, if an H4 section opens a new slide. Should not the case for `horizontal_slide_level = 2`

Alternative Slide Indicator

```
---- salmon wiki:dokuwiki-128.png 10% repeat bg-slide ---->
```

This slide has no content, but therefore a fancy background...

It's cool, isn't it?

Zoom

```
---- orange bg-zoom ---->
```

This could be a slide without content, not possible in header driven mode...

Horizontal

```
---->>
```

Horizontal

Horizontal again and stopping special hr driven mode

```
---->>
```

Horizontal again and stopping special hr driven mode

< - - - -

Options (Caching)

If you disable the cache for the page, then you are able to change the options direct in the URL.

In case your theme does not match the environment for the presentation you can fix this very fast without editing the page.

List

For this page/presentation the option `build_all_lists` is switched on - the list is therefore shown incremental:

- Unordered list, item one
- Another item
 - 1. Ordered sublist
 - 2. Another sublist item
- A third item for testing

Fragments

Fragment (inline)

<fragment>text</fragment>

Hit the next arrow...

... to step through ...

... a fragmented slide.

Fragment (inline)

Inline Fragments supporting only formatting and substitutions:

DokuWiki supports **bold**, *italic*, underlined and monospaced texts.

Of course you can **combine** all these. 😎

You can use _{subscript} and ^{superscript}, too.

You can mark something as ~~deleted~~ as well.

Fragment Block

With `<fragment-block>` you have more or less no limits:

`<fragment-block 2>`



This comes second



`<fragment-block 1>`

```
$number = intval($test); //this comes first :-)
```

Fragment List

`<fragment-list>` overwrites the global option `build_all_lists`:

- List item 1
- List item 2
- List item 3

No Fragment List

`<no-fragment-list>` overwrites also the global option `build_all_lists`:

- List item 1
- List item 2
- List item 3

Fragment Styles

`<fragment StyleName>`

grow

shrink

fade-out

fade-up (also down, left and right!)

current-visible

highlight-current-red (blue, green)

Highlight red blue green

Attention: grow, shrink, fade-up/-down/-left/-right
are only working with <fragment-block>

Background Orange

```
{{background>orange}}
```

Background

This slide has black background.

Quotes

This is the original example from the DokuWiki syntax description. For Reveal we suppress the nesting, because the quotes are shown in a different way:

I think we should do it

No we shouldn't

Well, I say we should

Really?

Yes!

Then lets do it!

MathJax

Inline math: $\int f \, dx$

Display math
$$\int f \, dx$$

Code

Inline `this is code`

Python

Downloadable Snippet

[test.py](#)

```
from antigravity import *  
for k in range(10):
```

```
print(k)
```

Not Downloadable Snippet

```
from antigravity import *  
for k in range(10):  
    print(k)
```

Bash

test.py

```
#!/bin/bash  
ls -l  
echo "hello world"
```

No Language

test.nolanguage

```
for k in range(10)  
this is nothing  
reject this
```

Double Space Block Code

```
first line  
second line  
third line
```

Tables

A Simple Table

head 1	head 2
line1	line 2
line11	line 22

Media Alignment

Align Left



Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labor

Align Right

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Align Center



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Fonts

Small Fonts

Depends on the [Wrap Plugin](#)

Normal size and small size

normal normal normal

small block small block small block

Small Fonts & Fragments

Normal size and small size

normal normal normal

small block small block small block

Links

Interwiki link [djvu_support](#)

WWW link www.google.de

H1 With Background

Without Background 1

Test, if background is not applied to nested slides

Without Background 2

Test, if background is not applied to the next horizontal slide

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