

mappeoppgave 4

```
knitr::opts_chunk$set(echo = TRUE)
library(rvest)
library(tidyverse)

## -- Attaching packages ----- tidyverse 1.3.1 --

## v ggplot2 3.3.5      v purrr 0.3.4
## v tibble 3.1.6      v dplyr 1.0.9
## v tidyr 1.2.0       v stringr 1.4.0
## v readr 2.1.2      v forcats 0.5.1

## Warning: package 'readr' was built under R version 4.1.2
## Warning: package 'dplyr' was built under R version 4.1.2

## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter()      masks stats::filter()
## x readr::guess_encoding() masks rvest::guess_encoding()
## x dplyr::lag()         masks stats::lag()

library(rlist)
library(purrr)

url1 <- "https://timeplan.uit.no/emne_timeplan.php?sem=22v&module%5B%5D=SOK-1005-1&week=1-20&View=list"
url2 <- "https://timeplan.uit.no/emne_timeplan.php?sem=22v&module%5B%5D=SOK-1006-1&week=1-20&View=list"
url3 <- "https://timeplan.uit.no/emne_timeplan.php?sem=22v&module%5B%5D=SOK-1016-1&week=1-20&View=list"

url_list <- list (url1, url2, url3)

scrape <- function(url_list) {
  page <- read_html(url_list)

  table <- html_nodes(page, 'table')
  table <- html_table(table, fill=TRUE)

  table[[1]]
  timeplan <- list.stack(table)
  timeplan

  colnames(timeplan) <- timeplan[1,]
  timeplan

  timeplan <- timeplan %>% filter(!Dato=="Dato")

  str(timeplan)

  timeplan <- timeplan %>% separate(Dato,
                                   into = c("Dag", "Dato"),
                                   sep = "(?<=[A-Za-z])(?=[0-9])")
}
```

```

timeplan$Dato <- as.Date(timeplan$Dato, format="%d.%m.%Y")

timeplan$Uke <- strptime(timeplan$Dato, format = "%V")

timeplan <- timeplan %>% select(Uke,Dato,Dag,Tid,Rom,Emnekode)
timeplan
str(timeplan)
return(timeplan)
}

map(url_list, scrape)

```

```
## Column 1 ['Uke 3'] of item 2 is missing in item 1. Use fill=TRUE to fill with NA (NULL for list column)
```

```
## 'data.frame': 20 obs. of 6 variables:
## $ Dato : chr "Torsdag13.01.2022" "Torsdag20.01.2022" "Torsdag27.01.2022" "Torsdag03.02.2022" ...
## $ Tid : chr "14:15-16:00" "14:15-16:00" "14:15-16:00" "14:15-16:00" ...
## $ Rom : chr "VIRTUELT_Digital undervisning" "VIRTUELT_Digital undervisning" "VIRTUELT_Digital undervisning" ...
## $ Emnekode : chr "SOK-1005-1" "SOK-1005-1" "SOK-1005-1" "SOK-1005-1" ...
## $ Beskrivelse: chr "Forelesning" "Forelesning" "Forelesning" "Forelesning Opptak+live" ...
## $ Lærer : chr "Ø. Myrland" "Ø. Myrland" "Ø. Myrland" "Ø. Myrland" ...
## 'data.frame': 20 obs. of 6 variables:
## $ Uke : chr "02" "03" "04" "05" ...
## $ Dato : Date, format: "2022-01-13" "2022-01-20" ...
## $ Dag : chr "Torsdag" "Torsdag" "Torsdag" "Torsdag" ...
## $ Tid : chr "14:15-16:00" "14:15-16:00" "14:15-16:00" "14:15-16:00" ...
## $ Rom : chr "VIRTUELT_Digital undervisning" "VIRTUELT_Digital undervisning" "VIRTUELT_Digital undervisning" ...
## $ Emnekode: chr "SOK-1005-1" "SOK-1005-1" "SOK-1005-1" "SOK-1005-1" ...

```

```
## Column 1 ['Uke 4'] of item 2 is missing in item 1. Use fill=TRUE to fill with NA (NULL for list column)
```

```
## 'data.frame': 52 obs. of 6 variables:
## $ Dato : chr "Tirsdag18.01.2022" "Onsdag19.01.2022" "Torsdag20.01.2022" "Tirsdag25.01.2022" ...
## $ Tid : chr "12:15-13:00" "12:15-16:00" "09:15-14:00" "14:15-17:00" ...
## $ Rom : chr "HHT 01.202AUD" "VIRTUELT_Digital undervisning" "VIRTUELT_Digital undervisning" ...
## $ Emnekode : chr "SOK-1006-1" "SOK-1006-1" "SOK-1006-1" "SOK-1006-1" ...
## $ Beskrivelse: chr "Forelesninger TromsøOppstartsmøte (digital undervisning) Opptak+live" "Forelesning" ...
## $ Lærer : chr "D.J. Clark" "J. Thøgersen" "J. Thøgersen" "V. Andreassen" ...

```

```
## Warning: Expected 2 pieces. Missing pieces filled with `NA` in 23 rows [7, 10, 12, 14, 16, 17, 19, 21, 23, 25, 26, 28, 30, 32, 35, 38, 39, 42, 44, 46, ...].
```

```
## 'data.frame': 52 obs. of 6 variables:
## $ Uke : chr "03" "03" "03" "04" ...
## $ Dato : Date, format: "2022-01-18" "2022-01-19" ...
## $ Dag : chr "Tirsdag" "Onsdag" "Torsdag" "Tirsdag" ...
## $ Tid : chr "12:15-13:00" "12:15-16:00" "09:15-14:00" "14:15-17:00" ...
## $ Rom : chr "HHT 01.202AUD" "VIRTUELT_Digital undervisning" "VIRTUELT_Digital undervisning" ...
## $ Emnekode: chr "SOK-1006-1" "SOK-1006-1" "SOK-1006-1" "SOK-1006-1" ...

```

```
## Column 1 ['Uke 3'] of item 2 is missing in item 1. Use fill=TRUE to fill with NA (NULL for list column)
```

```
## 'data.frame': 25 obs. of 6 variables:
## $ Dato : chr "Onsdag12.01.2022" "Tirsdag18.01.2022" "Torsdag27.01.2022" "Fredag11.02.2022" ...
## $ Tid : chr "14:15-16:00" "10:15-12:00" "12:15-14:00" "12:15-14:00" ...
## $ Rom : chr "VIRTUELT_Digital undervisning" "VIRTUELT_Digital undervisning" "VIRTUELT_Digital undervisning" ...
## $ Emnekode : chr "SOK-1016-1" "SOK-1016-1" "SOK-1016-1" "SOK-1016-1" ...

```

```
## $ Beskrivelse: chr "Forelesninger Tromsø" "Forelesninger Tromsø" "Forelesninger Tromsø" "Forelesninger Tromsø"
## $ Lærer : chr "E.C. Hvinden" "E.C. Hvinden" "E.C. Hvinden" "E.C. Hvinden" ...

## Warning: Expected 2 pieces. Missing pieces filled with `NA` in 1 rows [20].

## 'data.frame': 25 obs. of 6 variables:
## $ Uke : chr "02" "03" "04" "06" ...
## $ Dato : Date, format: "2022-01-12" "2022-01-18" ...
## $ Dag : chr "Onsdag" "Tirsdag" "Torsdag" "Fredag" ...
## $ Tid : chr "14:15-16:00" "10:15-12:00" "12:15-14:00" "12:15-14:00" ...
## $ Rom : chr "VIRTUELT_Digital undervisning" "VIRTUELT_Digital undervisning" "VIRTUELT_Digital undervisning" ...
## $ Emnekode: chr "SOK-1016-1" "SOK-1016-1" "SOK-1016-1" "SOK-1016-1" ...

## [[1]]
## Uke Dato Dag Tid Rom Emnekode
## 1 02 2022-01-13 Torsdag 14:15-16:00 VIRTUELT_Digital undervisning SOK-1005-1
## 2 03 2022-01-20 Torsdag 14:15-16:00 VIRTUELT_Digital undervisning SOK-1005-1
## 3 04 2022-01-27 Torsdag 14:15-16:00 VIRTUELT_Digital undervisning SOK-1005-1
## 4 05 2022-02-03 Torsdag 14:15-16:00 HHT 01.202AUD SOK-1005-1
## 5 06 2022-02-10 Torsdag 14:15-16:00 HHT 01.202AUD SOK-1005-1
## 6 07 2022-02-17 Torsdag 14:15-16:00 HHT 01.202AUD SOK-1005-1
## 7 08 2022-02-24 Torsdag 14:15-16:00 HHT 01.202AUD SOK-1005-1
## 8 09 2022-03-03 Torsdag 14:15-16:00 HHT 01.202AUD SOK-1005-1
## 9 10 2022-03-10 Torsdag 14:15-16:00 HHT 01.202AUD SOK-1005-1
## 10 11 2022-03-17 Torsdag 14:15-16:00 HHT 01.202AUD SOK-1005-1
## 11 12 2022-03-24 Torsdag 14:15-16:00 HHT 01.202AUD SOK-1005-1
## 12 13 2022-03-31 Torsdag 14:15-16:00 HHT 01.202AUD SOK-1005-1
## 13 14 2022-04-06 Onsdag 14:15-16:00 HHT 01.202AUD SOK-1005-1
## 14 16 2022-04-20 Onsdag 13:15-15:00 HHT 01.202AUD SOK-1005-1
## 15 16 2022-04-21 Torsdag 14:15-16:00 HHT 01.202AUD SOK-1005-1
## 16 17 2022-04-27 Onsdag 13:15-15:00 HHT 02.217 SOK-1005-1
## 17 18 2022-05-04 Onsdag 13:15-15:00 HHT 02.217 SOK-1005-1
## 18 18 2022-05-05 Torsdag 14:15-16:00 HHT 01.202AUD SOK-1005-1
## 19 19 2022-05-11 Onsdag 13:15-15:00 HHT 02.217 SOK-1005-1
## 20 19 2022-05-13 Fredag 13:00-13:00 SOK-1005-1

## [[2]]
## Uke Dato Dag Tid Rom
## 1 03 2022-01-18 Tirsdag 12:15-13:00 HHT 01.202AUD
## 2 03 2022-01-19 Onsdag 12:15-16:00 VIRTUELT_Digital undervisning
## 3 03 2022-01-20 Torsdag 09:15-14:00 VIRTUELT_Digital undervisning
## 4 04 2022-01-25 Tirsdag 14:15-17:00 HARSTAD_HG5 AUD_GRØNT
## 5 07 2022-02-16 Onsdag 12:15-16:00 MH U6.SAUD
## 6 07 2022-02-17 Torsdag 08:15-10:00 TEO-H6 6.303-AUD3
## 7 <NA> <NA> 12:15-14:00 TEO-H6 6.303-AUD3
## 8 08 2022-02-24 Torsdag 11:15-14:00 TEO-H1 1.820-AUD1
## 9 09 2022-02-28 Mandag 10:15-12:00 HHT 02.217
## 10 <NA> <NA> 10:15-12:00 HHT 02.217
## 11 09 2022-03-02 Onsdag 10:15-12:00 HHT 02.217
## 12 <NA> <NA> 10:15-12:00 HHT 02.217
## 13 11 2022-03-14 Mandag 10:15-12:00 HHT 02.217
## 14 <NA> <NA> 10:15-12:00 HHT 02.217
## 15 11 2022-03-16 Onsdag 10:15-12:00 HHT 02.217
## 16 <NA> <NA> 10:15-12:00 HHT 02.217
## 17 <NA> <NA> 12:15-16:00 TEO-H6 6.303-AUD3
```

## 18	12	2022-03-21	Mandag	10:15-12:00	HHT	02.217
## 19	<NA>	<NA>		10:15-12:00	HHT	02.217
## 20	12	2022-03-23	Onsdag	10:15-12:00	HHT	02.217
## 21	<NA>	<NA>		10:15-12:00	HHT	02.217
## 22	13	2022-03-28	Mandag	10:15-12:00	HHT	02.217
## 23	<NA>	<NA>		10:15-12:00	HHT	02.217
## 24	13	2022-03-29	Tirsdag	12:15-14:00	HHT	02.217
## 25	<NA>	<NA>		12:15-14:00	HHT	02.217
## 26	<NA>	<NA>		16:00-18:00	TEO-H6	6.303-AUD3
## 27	13	2022-03-30	Onsdag	09:15-11:00	FARM	F1.101
## 28	<NA>	<NA>		12:15-14:00	FARM	F1.101
## 29	14	2022-04-04	Mandag	10:15-12:00	HHT	02.217
## 30	<NA>	<NA>		10:15-12:00	HHT	02.217
## 31	14	2022-04-06	Onsdag	10:15-12:00	HHT	02.217
## 32	<NA>	<NA>		10:15-12:00	HHT	02.217
## 33	14	2022-04-07	Torsdag	11:15-14:00	TEO-H1	1.820-AUD1
## 34	16	2022-04-19	Tirsdag	12:15-14:00	HHT	02.217
## 35	<NA>	<NA>		12:15-14:00	HHT	02.217
## 36	16	2022-04-22	Fredag	09:15-12:00	TEO-H1	1.836-AUD2
## 37	17	2022-04-27	Onsdag	10:15-12:00		
## 38	<NA>	<NA>		10:15-12:00		
## 39	<NA>	<NA>		12:15-16:00	TEO-H1	1.836-AUD2
## 40	17	2022-04-28	Torsdag	09:15-14:00	TEO-H1	1.820-AUD1
## 41	18	2022-05-02	Mandag	10:15-12:00	HHT	02.217
## 42	<NA>	<NA>		10:15-12:00	HHT	02.217
## 43	18	2022-05-04	Onsdag	10:15-12:00	HHT	02.217
## 44	<NA>	<NA>		10:15-12:00	HHT	02.217
## 45	19	2022-05-09	Mandag	10:15-12:00	HHT	02.217
## 46	<NA>	<NA>		10:15-12:00	HHT	02.217
## 47	19	2022-05-11	Onsdag	10:15-12:00	HHT	02.217
## 48	<NA>	<NA>		10:15-12:00	HHT	02.217
## 49	20	2022-05-16	Mandag	10:15-12:00	HHT	02.217
## 50	<NA>	<NA>		10:15-12:00	HHT	02.217
## 51	20	2022-05-18	Onsdag	10:15-12:00	HHT	02.217
## 52	<NA>	<NA>		10:15-12:00	HHT	02.217
##	Emnekode					
## 1	SOK-1006-1					
## 2	SOK-1006-1					
## 3	SOK-1006-1					
## 4	SOK-1006-1					
## 5	SOK-1006-1					
## 6	SOK-1006-1					
## 7	SOK-1006-1					
## 8	SOK-1006-1					
## 9	SOK-1006-1					
## 10	SOK-1006-1					
## 11	SOK-1006-1					
## 12	SOK-1006-1					
## 13	SOK-1006-1					
## 14	SOK-1006-1					
## 15	SOK-1006-1					
## 16	SOK-1006-1					
## 17	SOK-1006-1					
## 18	SOK-1006-1					

19 SOK-1006-1
 ## 20 SOK-1006-1
 ## 21 SOK-1006-1
 ## 22 SOK-1006-1
 ## 23 SOK-1006-1
 ## 24 SOK-1006-1
 ## 25 SOK-1006-1
 ## 26 SOK-1006-1
 ## 27 SOK-1006-1
 ## 28 SOK-1006-1
 ## 29 SOK-1006-1
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 ## 41 SOK-1006-1
 ## 42 SOK-1006-1
 ## 43 SOK-1006-1
 ## 44 SOK-1006-1
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 ## 46 SOK-1006-1
 ## 47 SOK-1006-1
 ## 48 SOK-1006-1
 ## 49 SOK-1006-1
 ## 50 SOK-1006-1
 ## 51 SOK-1006-1
 ## 52 SOK-1006-1

##

[[3]]

##	Uke	Dato	Dag	Tid	Rom
## 1	02	2022-01-12	Onsdag	14:15-16:00	VIRTUELT _Digital undervisning
## 2	03	2022-01-18	Tirsdag	10:15-12:00	VIRTUELT _Digital undervisning
## 3	04	2022-01-27	Torsdag	12:15-14:00	VIRTUELT _Digital undervisning
## 4	06	2022-02-11	Fredag	12:15-14:00	TEO-H1 1.836-AUD2
## 5	07	2022-02-15	Tirsdag	12:15-14:00	TEO-H1 1.836-AUD2
## 6	08	2022-02-25	Fredag	12:15-14:00	TEO-H1 1.836-AUD2
## 7	09	2022-02-28	Mandag	12:15-14:00	TEO-H1 1.836-AUD2
## 8	09	2022-03-01	Tirsdag	12:15-14:00	HHT 02.218
## 9	09	2022-03-02	Onsdag	14:15-16:00	HHT 02.218
## 10	11	2022-03-15	Tirsdag	10:15-12:00	TEO-H1 1.836-AUD2
## 11	11	2022-03-17	Torsdag	12:15-14:00	HHT 02.218
## 12	11	2022-03-18	Fredag	12:15-14:00	HHT 02.218
## 13	12	2022-03-22	Tirsdag	10:15-12:00	TEO-H1 1.836-AUD2
## 14	13	2022-03-31	Torsdag	12:15-14:00	HHT 02.217
## 15	13	2022-04-01	Fredag	12:15-14:00	HHT 02.118
## 16	14	2022-04-05	Tirsdag	12:15-14:00	TEO-H1 1.836-AUD2
## 17	14	2022-04-07	Torsdag	10:15-12:00	HHT 02.118

```
## 18 14 2022-04-08 Fredag 12:15-14:00 HHT 02.119
## 19 16 2022-04-21 Torsdag 10:15-12:00 HHT 02.118
## 20 <NA> <NA> 12:15-14:00 HHT 02.218
## 21 17 2022-04-26 Tirsdag 10:15-12:00 TEO-H1 1.836-AUD2
## 22 17 2022-04-28 Torsdag 12:15-14:00 HHT 02.218
## 23 18 2022-05-05 Torsdag 12:15-14:00 HHT 02.218
## 24 19 2022-05-12 Torsdag 12:15-14:00 HHT 02.218
## 25 20 2022-05-19 Torsdag 12:15-14:00 HHT 02.218
## Emnekode
## 1 SOK-1016-1
## 2 SOK-1016-1
## 3 SOK-1016-1
## 4 SOK-1016-1
## 5 SOK-1016-1
## 6 SOK-1016-1
## 7 SOK-1016-1
## 8 SOK-1016-1
## 9 SOK-1016-1
## 10 SOK-1016-1
## 11 SOK-1016-1
## 12 SOK-1016-1
## 13 SOK-1016-1
## 14 SOK-1016-1
## 15 SOK-1016-1
## 16 SOK-1016-1
## 17 SOK-1016-1
## 18 SOK-1016-1
## 19 SOK-1016-1
## 20 SOK-1016-1
## 21 SOK-1016-1
## 22 SOK-1016-1
## 23 SOK-1016-1
## 24 SOK-1016-1
## 25 SOK-1016-1
```

```
timeplan <- map(url_list, scrape)
```

```
## Column 1 ['Uke 3'] of item 2 is missing in item 1. Use fill=TRUE to fill with NA (NULL for list column)
```

```
## 'data.frame': 20 obs. of 6 variables:
## $ Dato : chr "Torsdag13.01.2022" "Torsdag20.01.2022" "Torsdag27.01.2022" "Torsdag03.02.2022" ...
## $ Tid : chr "14:15-16:00" "14:15-16:00" "14:15-16:00" "14:15-16:00" ...
## $ Rom : chr "VIRTUELT _Digital undervisning" "VIRTUELT _Digital undervisning" "VIRTUELT _Digital undervisning" ...
## $ Emnekode : chr "SOK-1005-1" "SOK-1005-1" "SOK-1005-1" "SOK-1005-1" ...
## $ Beskrivelse: chr "Forelesning" "Forelesning" "Forelesning" "Forelesning Opptak+live" ...
## $ Lærer : chr "Ø. Myrland" "Ø. Myrland" "Ø. Myrland" "Ø. Myrland" ...
## 'data.frame': 20 obs. of 6 variables:
## $ Uke : chr "02" "03" "04" "05" ...
## $ Dato : Date, format: "2022-01-13" "2022-01-20" ...
## $ Dag : chr "Torsdag" "Torsdag" "Torsdag" "Torsdag" ...
## $ Tid : chr "14:15-16:00" "14:15-16:00" "14:15-16:00" "14:15-16:00" ...
## $ Rom : chr "VIRTUELT _Digital undervisning" "VIRTUELT _Digital undervisning" "VIRTUELT _Digital undervisning" ...
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```

```
## Column 1 ['Uke 4'] of item 2 is missing in item 1. Use fill=TRUE to fill with NA (NULL for list column)
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```
## 'data.frame': 52 obs. of 6 variables:
## $ Dato : chr "Tirsdag18.01.2022" "Onsdag19.01.2022" "Torsdag20.01.2022" "Tirsdag25.01.2022"
## $ Tid : chr "12:15-13:00" "12:15-16:00" "09:15-14:00" "14:15-17:00" ...
## $ Rom : chr "HHT 01.202AUD" "VIRTUELT _Digital undervisning" "VIRTUELT _Digital undervisning"
## $ Emnekode : chr "SOK-1006-1" "SOK-1006-1" "SOK-1006-1" "SOK-1006-1" ...
## $ Beskrivelse: chr "Forelesninger TromsøOppstartsmøte (digital undervisning) Opptak+live" "Forelesninger TromsøOppstartsmøte (digital undervisning) Opptak+live"
## $ Lærer : chr "D.J. Clark" "J. Thøgersen" "J. Thøgersen" "V. Andreassen" ...

## Warning: Expected 2 pieces. Missing pieces filled with `NA` in 23 rows [7, 10,
## 12, 14, 16, 17, 19, 21, 23, 25, 26, 28, 30, 32, 35, 38, 39, 42, 44, 46, ...].

## 'data.frame': 52 obs. of 6 variables:
## $ Uke : chr "03" "03" "03" "04" ...
## $ Dato : Date, format: "2022-01-18" "2022-01-19" ...
## $ Dag : chr "Tirsdag" "Onsdag" "Torsdag" "Tirsdag" ...
## $ Tid : chr "12:15-13:00" "12:15-16:00" "09:15-14:00" "14:15-17:00" ...
## $ Rom : chr "HHT 01.202AUD" "VIRTUELT _Digital undervisning" "VIRTUELT _Digital undervisning"
## $ Emnekode: chr "SOK-1006-1" "SOK-1006-1" "SOK-1006-1" "SOK-1006-1" ...

## Column 1 ['Uke 3'] of item 2 is missing in item 1. Use fill=TRUE to fill with NA (NULL for list column)

## 'data.frame': 25 obs. of 6 variables:
## $ Dato : chr "Onsdag12.01.2022" "Tirsdag18.01.2022" "Torsdag27.01.2022" "Fredag11.02.2022" ...
## $ Tid : chr "14:15-16:00" "10:15-12:00" "12:15-14:00" "12:15-14:00" ...
## $ Rom : chr "VIRTUELT _Digital undervisning" "VIRTUELT _Digital undervisning" "VIRTUELT _Digital undervisning"
## $ Emnekode : chr "SOK-1016-1" "SOK-1016-1" "SOK-1016-1" "SOK-1016-1" ...
## $ Beskrivelse: chr "Forelesninger Tromsø" "Forelesninger Tromsø" "Forelesninger Tromsø" "Forelesninger Tromsø"
## $ Lærer : chr "E.C. Hvinden" "E.C. Hvinden" "E.C. Hvinden" "E.C. Hvinden" ...

## Warning: Expected 2 pieces. Missing pieces filled with `NA` in 1 rows [20].

## 'data.frame': 25 obs. of 6 variables:
## $ Uke : chr "02" "03" "04" "06" ...
## $ Dato : Date, format: "2022-01-12" "2022-01-18" ...
## $ Dag : chr "Onsdag" "Tirsdag" "Torsdag" "Fredag" ...
## $ Tid : chr "14:15-16:00" "10:15-12:00" "12:15-14:00" "12:15-14:00" ...
## $ Rom : chr "VIRTUELT _Digital undervisning" "VIRTUELT _Digital undervisning" "VIRTUELT _Digital undervisning"
## $ Emnekode: chr "SOK-1016-1" "SOK-1016-1" "SOK-1016-1" "SOK-1016-1" ...

timeplan <- bind_rows(timeplan)
```