

# \*:96 (SU) and 2I1263 (KTH) Internet Application Protocols and Standards

Exam 2002-12-02

### The following documents are allowed during the exam:

HÖGSKOLAN

- 1. Documents in Compendium 1, printed on coloured paper.
- 2. Documents in Compendium 2, printed on coloured paper.
- 3. Documents in Compendium 3, printed on coloured paper.
- 4. Documents in Compendium 7, printed on coloured paper.
- 5. Ordinary language dictionaries between English and Swedish.

Note 1: Compendium 4, 5, 6, 8 and 9 are not allowed during the exam. The exam supervisor will check that you do not have copies of compendiums 4, 5, 6, 8 and 9 printed on colour paper. Bringing such compendiums on coloured paper is cheating and can result in suspension of your rights to study.

Note 2: Underscoring and short handwritten notes in the yellow documents are allowed.

Note 3: A few copies of these compendiums (part 1-3 and 7) will be available for loan during the exam for students who have not bought the compediums.

### Important warning

It is not acceptable to answer an exam question by just a verbatim quote from the allowed documents above. You must show that you understand the question and your answer by using your own words.

Jacob Palme will come around 17:30-18:00 to the exam room to answer questions regarding the exam.



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### Continued from the previous page.

No.	Question in English	Question in Swedish	Max
			points

1. Disabled people often want all objects (such as pictures, table cells, etc.) in HTML labelled with text attributes which describe the objects. Which HTML constructs are meant to be used/suitable for this?

Handikappade personer behöver ofta förklarande text-etiketter pä HTML-objekt (bilder, tabellceller, etc.). Vilka HTML-konstruktioner är avsedda/lämpliga för detta ändamål?

#### Answer

- The ALT tag on images to make images understandable for those who cannot see them (2).
- The TITLE attribute on grouping elements (DIV, TABLE, TR, TD, etc.), to make it easier to search in a page with many subgroups. Title is allowed on most HTML elements (2).
- The SUMMARY attribute on tables (1).
- The LANG attribute, allowed on most elements (1).
- The ABBR and ACRONYM elements (1).
- The CAPTION element in tables (1).
- The LONGDESC attribute on an image or a frame can refer to a longer description in a separate file (1).

Note: This question was not meant to ask in general how to make pages better for disabled people, but which specific constructs exist for this in HTML. And CSS was not included in the question. So saying that "font-size: small" in a style sheet is better than "font-size: lopx" is not included in what was expected.



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No. Question in English Question in Swedish Max points

Write HTML code for the following Skriv HTML-kod för följande tabell: table:

		Extra fast	
		Yes	No
Ducandan	Yes	90 kr	70 kr
Preorder	No	80 kr	60 kr

		Extra snabbt	
		Ja	Nej
Fäul-än	Ja	90 kr	70 kr
Förköp	Nej	80 kr	60 kr

#### Answer

```
<html>
<head>
<style type="text/css">
td { font-family: Verdana }
th { font-family: Verdana }
</style>
</head>
<body>
 
 Extra fast
Yes
 No
Preorder
 Yes
 90 kr
 70 kr
No
 80 kr
 60 kr
</body>
</html>
```

Note: There are of course numerous different good solutions. I chose to use in my solution above, because it usually implies bold and centered text. And I chose to indicate font with CSS since this gives a shorter solution. A single <font type="verdana"> before the tag would be even shorter, but does not work, I am not sure why.



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No. Question in English Question in Swedish Max points

Write an ABFN specification of the syntactical elements used in the solution of task 2 above. (Note: This is not the same as the ABNF for the particular HTML code used in your solution of task 2.)

Skriv ABNF-specifikation av de syntaktiska element som användes i lösningen av uppgift 2 ovan. (OBS: Detta är inte samma sak som ABNF för den speciella HTML kod som du använt i din lösning av uppgift 2.)

#### Answer

The syntax below does just cover the code in the answer to answer 2. It does not cover other uses of HTML.

```
html = "<html> htmlcontent "</html>" FWSP
htmlcontent = FWSP head FWSP body FWSP
head = "<head>" headcontent "</head>" FWSP
headcontent = FWSP "<style type=" DOUBLEQUOTE "text/css"
     DOUBLEOUOTE ">" FWSP "<!--" FWSP *csstext FWSP "-->" FWSP
csstext = csstag FWSP "{ font-family: Verdana }" FWSP
csstag = "td" | "th"
body = "<body"> FWSP bodycontent FWSP "</body>" FWSP
bodycontent = table
table = "" FWSP
tablecontent FWSP  FWSP
tablecontent = *row FWSP
row = "" rowcontent "" FWSP
rowcontent = *cell FWSP
cell = "<" ( "td" | "th" ) ">" FWSP *cellattribute FWSP ">" FWSP
cellcontent FWSP "</" "td" | "th" ">" FWSP
cellattribute = ("rowspan" | "colspan" ) "=" QUOTECHAR *DIGIT
QUOTECHAR FWSP
cellcontent = *CHAR
FWSP = *( space | tab | return | linefeed )
```



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No.	Question in English	Question in Swedish	Max points			
4	Which of the file types in FTP are commonly used today, and what is the difference in how information is transferred for each type?  Answer	Vilka filtyper i FTP är det som används allmänt numera, och vad är skillnaden i hur information överförs för var och en av typerna?	6			
	Binary: Everything transmitted exacly as is.					
	Text:					
	<ol> <li>Line breaks transformed between different representations in different platforms.</li> </ol>					
	2. Character set translations ma	y occur.				