

## Writing Web Content

*“Vigorous writing is concise. A sentence should contain no unnecessary words, a paragraph no unnecessary sentences, for the same reason that a drawing should have no unnecessary lines and a machine no unnecessary parts.”— William Strunk Jr., in Elements of Style*

### **Content is the most important part of a Web site.**

If the content does not provide the information needed by users, the Web site will provide little value no matter how easy it is to use the site.

When preparing prose content for a Web site, use familiar words and avoid the use of jargon. If acronyms and abbreviations must be used, ensure that they are clearly understood by typical users and defined on the page.

Minimize the number of words in a sentence and sentences in a paragraph. Make the first sentence (the topic sentence) of each paragraph descriptive of the remainder of the paragraph. Clearly state the temporal sequence of instructions. Also, use upper- and lowercase letters appropriately, write in an affirmative, active voice, and limit prose text on navigation pages.

## 15:1 Make Action Sequences Clear

**Guideline:** When describing an action or task that has a natural order or sequence (assembly instructions, troubleshooting, etc.), structure the content so that the sequence is obvious and consistent.

Relative Importance:

1 2 3 4 5

Strength of Evidence:

1 2 3 4 0

**Comments:** Time-based sequences are easily understood by users. Do not force users to perform or learn tasks in a sequence that is unusual or awkward.

**Sources:** Czaja and Sharit, 1997; Farkas, 1999; Krull and Watson, 2002; Morkes and Nielsen, 1998; Nielsen, 2000; Smith and Mosier, 1986; Wright, 1977.

### Example:

The screenshot illustrates a pizza ordering process with four steps:

- Step 1:** Select an Acrobat Reader version. You will receive the most recent version of Acrobat Reader that is available for your language and platform.
  - Language: English
  - Platform: Choose a platform
  - The version of Acrobat Reader you are downloading: unavailable
  - Macintosh: [.bin or .hqx?](#)
- Step 2:** Select your favorite pizza toppings.
  - Include the following options for your Acrobat Reader software:
    - Ability to view Photoshop Album slide shows and electronic cards
    - Ability to search Adobe PDF files
    - Accessibility support\*
    - Secure Internet eBook purchase support
    - Acrobat Reader Help (PDF format)
  - The download file size is: For personal use **DOWNLOAD**
- Step 3:** Select your pizza instructions.
  - I want to add special instructions for this pizza done bake
- Step 4:** Add to order.

Annotations highlight specific elements:

- 1 Select an Option 1st Choice Color:** A dropdown menu showing "Yellow".
- 2 Enter Recipient's Zip/Postal Code:** A text input field with a right arrow.
- 3 ADD TO CART:** A blue button.

# 15:2 Avoid Jargon

**Guideline:** Do not use words that typical users may not understand.

**Comments:** Terminology plays a large role in the user's ability to find and understand information. Many terms are familiar to designers and content writers, but not to users. In one study, some users did not understand the term 'cancer screening.' Changing the text to 'testing for cancer' substantially improved users' understanding.

To improve understanding among users who are accustomed to using the jargon term, it may be helpful to put that term in parentheses. A dictionary or glossary may be helpful to users who are new to a topic, but should not be considered a license to frequently use terms typical users do not understand.

**Sources:** Cockburn and Jones, 1996; Evans, 1998; Horton, 1990; Mayhew, 1992; Morkes and Nielsen, 1997; Morkes and Nielsen, 1998; Nall, Koyani and Lafond, 2001; Schramm, 1973; Spyridakis, 2000; Tullis, 2001; Zimmerman and Prickett, 2000; Zimmerman, et al., 2002.

**Example:** These Web pages, often visited by the public, do not use language that is accessible and free of jargon.

Relative Importance:

1 2 3 4

Strength of Evidence:

1 2 3 4



See page xxii for detailed descriptions of the rating scales

1 2 3 4

## 15:3 Use Familiar Words

Relative Importance:

12340

Strength of Evidence:

12300

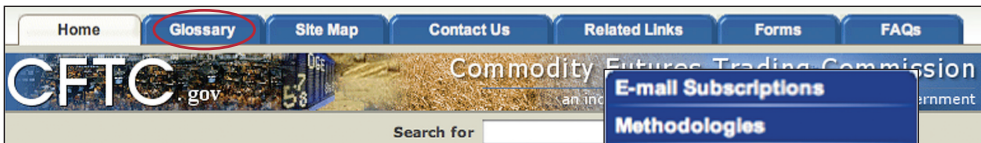
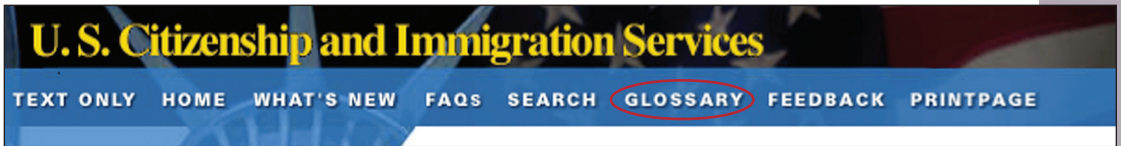
**Guideline:** Use words that are frequently seen and heard.

**Comments:** Use words that are familiar to, and used frequently by, typical users. Words that are more frequently seen and heard are better and more quickly recognized. There are several sources of commonly used words (see Kucera and Francis, 1967 and Leech et al., 2001 in the Sources section).

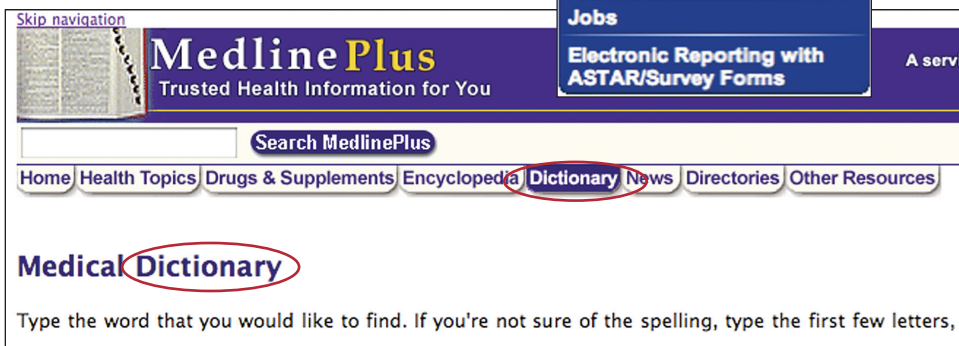
Familiar words can be collected using open-ended surveys, by viewing search terms entered by users on your site or related sites, and through other forms of market research.

**Sources:** Furnas, et al., 1987; Kucera and Francis, 1967; Leech, Rayson and Wilson, 2001; Spyridakis, 2000; Whissell, 1998.

**Example:**



Studies have shown that using "Dictionary" instead of "Glossary" provides much more positive feedback for your typical user.





# 15:4 Define Acronyms and Abbreviations

**Guideline:** Do not use unfamiliar or undefined acronyms or abbreviations on Web sites.

**Comments:** Acronyms and abbreviations should be used sparingly and must be defined in order to be understood by all users. It is important to remember that users who are new to a topic are likely to be unfamiliar with the topic's related acronyms and abbreviations. Use the following format when defining acronyms or abbreviations: Physician Data Query (PDQ). Acronyms and abbreviations are typically defined on first mention, but remember that users may easily miss the definition if they scroll past it or enter the page below where the acronym or abbreviation is defined.

**Relative Importance:**

1 2 3 4 ○

**Strength of Evidence:**

1 2 ○ ○ ○ ○

**Sources:** Ahlstrom and Longo, 2001; Evans, 1998; Morrell, et al., 2002; Nall, Koyani and Lafond, 2001; Nielsen and Tahir, 2002; Tullis, 2001.

**Example:** Undefined acronyms on a homepage may leave users confused regarding the site's contents or purpose.



This detailed, highly-technical content page is designed for experts and not novice users. However, the designer has still defined each acronym and abbreviation on the page.

**Campaign progress**  
*status charts for level 1, 2 milestones (not yet available)*

- inert drive (ID)
- direct drive (DD)
- high energy density (HED)
- expl. support technol. (EST)
- high yield (HYA)
- university grants prog. (UGP)
- NIF other project costs (OPC)
- facility operations (FO)
- inertial fusion technol. (IFT)

**Highlights, news releases**

- GA LNL
- LE LNL
- NRL SNL

**Facilities/schedules**

- NIF, NIF construction (LNL)
- Nike (NRL)
- OMEGA (LE)
- Trident (LNL)
- and Saturn (SNL)
- 2-Beamlet (SNL)

**Inertial Confinement Fusion (ICF) Ignition and High Yield Campaign**

With the cessation of underground testing, the safety, security, and reliability of the nuclear stockpile must be assured through tests at a smaller, but nevertheless relevant, scale in aboveground facilities. The near-term mission of the ICF Campaign is to develop the technology to address high energy density physics issues for the science-based Stockpile Stewardship Program (SSP). Beginning in 2001, the Campaign is emphasizing eight (rather than six) major technical efforts: (1) ignition, (2) support of high energy density experiments for stockpile stewardship, (3) experimental support technology, (4) an assessment of high yield, (5) university support of high energy density science, (6) nuclear environmental and safety analysis requirements, (7) facility operations, and (8) inertial fusion technology.

## 15:5 Use Abbreviations Sparingly

**Guideline:** Show complete words rather than abbreviations whenever possible.

Relative Importance:

12340

Strength of Evidence:

12000

**Comments:** The only times to use abbreviations are when they are significantly shorter, save needed space, and will be readily understood by typical users. If users must read abbreviations, choose only common abbreviations.

**Sources:** Ahlstrom and Longo, 2001; Engel and Granda, 1975; Evans, 1998; Smith and Mosier, 1986.

**Example:**

If abbreviations are in common usage (DoD) then it is acceptable to use them. However, if an abbreviation is not in common usage (DARS, DFARS, AKSS), the complete title should be used.

<b>Site Menu</b>		
About DPAP		
<b>DPAP Directorates</b>		
DARS	<b>Items of Interest</b>	
PAIC		DFARS Transformation
Policy		Interagency Acquisition
PDI		Purchase Card
<b>Resources</b>		
DFARS		Unique Identification
PGI		Outreach and Comm
DoD 5000 Series		AcqDemo
Policy Vault		International Contracting
Business Transformatio		Doing Business w/ DoD
Common Supplier Engn	Ethics	
<b>Education</b>		
DPAP Archives	AcqDemo Training	
	Defense Acq. University	
	<b>Systems</b>	
	AKSS	
	ACC	
	Defense Acq. Guidebook	

See page xxii for detailed descriptions of the rating scales  
12340

## 15:6 Use Mixed Case with Prose

Relative Importance:

1 2 3 4 5

Strength of Evidence:

1 2 3 4 5

**Guideline:** Display continuous (prose) text using mixed upper- and lowercase letters.

**Comments:** Reading text is easier when capitalization is used conventionally to start sentences and to indicate proper nouns and acronyms. If an item is intended to attract the user's attention, display the item in all uppercase, bold, or italics. Do not use these methods for showing emphasis for more than one or two words or a short phrase because they slow reading performance when used for extended prose.

**Sources:** Breland and Breland, 1944; Engel and Granda, 1975; Mills and Weldon, 1987; Moskel, Erno and Shneiderman, 1984; Poulton and Brown, 1968; Smith and Mosier, 1986; Spyridakis, 2000; Tinker and Paterson, 1928; Tinker, 1955; Tinker, 1963; Vartabedian, 1971; Wright, 1977.

### Example:

Reading text is easier when capitalization is used conventionally to start sentences and to indicate proper nouns and acronyms. If an item is intended to attract the user's attention, display the item in all UPPERCASE, **bold**, or *italics*. Do not use these methods for showing emphasis for more than one or two words or a short phrase because they slow reading performance when used for extended prose.

READING TEXT IS EASIER WHEN CAPITALIZATION IS USED CONVENTIONALLY TO START SENTENCES AND TO INDICATE PROPER NOUNS AND ACRONYMS. IF AN ITEM IS INTENDED TO ATTRACT THE USER'S ATTENTION, DISPLAY THE ITEM IN ALL UPPERCASE, **BOLD**, OR *ITALICS*. DO NOT USE THESE METHODS FOR SHOWING EMPHASIS FOR MORE THAN ONE OR TWO WORDS OR A SHORT PHRASE BECAUSE THEY SLOW READING PERFORMANCE WHEN USED FOR EXTENDED PROSE.

**Guideline:** To optimize reading comprehension, minimize the number of words in sentences, and the number of sentences in paragraphs.

**Relative Importance:**

12340

**Strength of Evidence:**

12340

**Comments:** To enhance the readability of prose text, a sentence should not contain more than twenty words. A paragraph should not contain more than six sentences.

**Sources:** Bailey, 1996; Bailey, Koyani and Nall, 2000; Bouma, 1980; Chervak, Drury and Ouellette, 1996; Evans, 1998; Kincaid, et al., 1990; Marcus, 1992; Mills and Caldwell, 1997; Nielsen, 1997c; Palmquist and Zimmerman, 1999; Rehe, 1979; Spyridakis, 2000; Zimmerman and Clark, 1987.

**Example:** This example shows how to optimize reading comprehension. The number of words in a sentence is minimized, and there are few sentences in each paragraph.

### What's Happening Now?

A pandemic is a global disease outbreak. A flu pandemic occurs when a new influenza virus emerges for which people have little or no immunity, and for which there is no vaccine. The disease spreads easily person-to-person, causes serious illness, and can sweep across the country and around the world in very short time.

It is difficult to predict when the next influenza pandemic will occur or how severe it will be. Wherever and whenever a pandemic starts, everyone around the world is at risk. Countries might, through measures such as border closures and travel restrictions, delay arrival of the virus, but cannot stop it.

Health professionals are concerned that the continued spread of a highly pathogenic avian H5N1 virus across eastern Asia and other countries represents a significant threat to human health. The H5N1 virus has raised concerns about a potential human pandemic because:

- It is especially virulent
- It is being spread by migratory birds
- It can be transmitted from birds to mammals and in some limited circumstances to humans, and
- Like other influenza viruses, it continues to evolve.

Since 2003, a growing number of human H5N1 cases have been reported in Azerbaijan, Cambodia, China, Djibouti, Egypt, Indonesia, Iraq, Thailand, Turkey, and Vietnam. More than half of the people infected with the H5N1 virus have died. Most of these cases are all believed to have been caused by exposure to infected poultry. There has been no sustained human-to-human transmission of the disease, but the concern is that H5N1 will evolve into a virus capable of human-to-human transmission.

[▲ top of page](#)

### Avian Influenza Viruses

Avian (bird) flu is caused by influenza A viruses that occur naturally among birds. There are different subtypes of these viruses because of changes in certain proteins (hemagglutinin [HA] and neuraminidase [NA]) on the surface of the influenza A virus and the way the proteins combine.

Each combination represents a different subtype. All known subtypes of influenza A viruses can be found in birds. The avian flu currently of concern is the H5N1 subtype.

[▲ top of page](#)

# 15:8 Limit Prose Text on Navigation Pages

**Guideline:** Do not put a lot of prose text on navigation pages.

**Relative Importance:**



**Strength of Evidence:**



**Comments:** When there are many words on navigation pages, users tend to rapidly scan for specific words or begin clicking on many different links, rather than reading the text associated with the links.

**Sources:** Bailey, Koyani and Nall, 2000; Evans, 1998; Morkes and Nielsen, 1998; Nielsen, 2000; Spyridakis, 2000.

**Example:** The lack of prose text allows navigation elements to take center stage on this navigation page.

The large volume of prose text forces navigation links (the primary purpose of the page) into the left panel.

See page xxii for detailed descriptions of the rating scales



## 15:9 Use Active Voice

**Guideline:** Compose sentences in active rather than passive voice.

**Relative Importance:**

12300

**Strength of Evidence:**

12340

**Comments:** Users benefit from simple, direct language. Sentences in active voice are typically more concise than sentences in passive voice. Strong verbs help the user know who is acting and what is being acted upon. In one study, people who had to interpret federal regulation language spontaneously translated passive sentences into active sentences in order to form an understanding of the passages.

**Sources:** Flower, Hayes and Swarts, 1983; Horton, 1990; Palermo and Bourne, 1978; Palmquist and Zimmerman, 1999; Redish, Felker and Rose, 1981; Smith and Mosier, 1986; Spinillo and Dyson, 2000/2001; Spyridakis, 2000; Wright, 1977; Zimmerman and Clark, 1987.

**Example:** Active voice example

Passive voice example

John hit the baseball.      The baseball was hit by John.

## 15:10 Write Instructions in the Affirmative

**Guideline:** As a general rule, write instructions in affirmative statements rather than negative statements.

**Relative Importance:**

12300

**Strength of Evidence:**

12000

**Comments:** When giving instructions, strive to tell users what to do (see a dentist if you have a toothache), rather than what to avoid doing (avoid skipping your dentist appointment if you have a toothache). If the likelihood of making a wrong step is high or the consequences are dire, negative voice may be clearer to the user.

**Sources:** Greene, 1972; Herriot, 1970; Krull and Watson, 2002; Palmquist and Zimmerman, 1999; Smith and Mosier, 1986; Wright, 1977; Zimmerman and Clark, 1987.

**Example:** An example of negative voice pointing out consequences to the user.

Message successfully posted by: **156.40.129.142** (Logged!).

**IMPORTANT:** Do **NOT** press BACK - If you come back to this page, your message will be posted a second time!



# 15:11 Make First Sentences Descriptive

**Guideline:** Include the primary theme of a paragraph, and the scope of what it covers, in the first sentence of each paragraph.

**Comments:** Users tend to skim the first one or two sentences of each paragraph when scanning text.

**Sources:** Bailey, Koyani and Nall, 2000; Lynch and Horton, 2002; Morkes and Nielsen, 1997; Morkes and Nielsen, 1998; Spyridakis, 2000.

**Example:** Descriptive first sentences set the tone for each of these paragraphs, and provide users with an understanding of the topic of each section of text.

**Relative Importance:**

1 2 3 4 5

**Strength of Evidence:**

1 2 3 4 5

A U.S. Government Information Technology Web Site

## healthIT

An initiative of the U.S. Department of Health & Human Services

**Home**  
**Information**  
**Efforts**  
**Consumer Awareness**  
**Issues**

### Consumer Awareness

Documents in PDF format require the [Adobe Acrobat Reader®](#). If you experience problems with PDF documents, please [download the latest version of the Reader®](#).

[Ending the Document Game](#), Full Report from The Commission on Systemic Interoperability

[Addressing Healthcare Connectivity as a Matter of Life and Death](#)

**Executive Summary**  
Americans need a connected system of electronic healthcare information available to all doctors and patients whenever and wherever necessary.

In 2000, the Institute of Medicine (IoM) estimated that between 44,000 and 98,000 Americans die each year from preventable medical errors. Subsequent studies have estimated that the number may be twice as high. Medical errors are killing more people per year, in America, than breast cancer, AIDS, or motor vehicle accidents. This pain and suffering is compounded by the knowledge that many of these errors could have been avoided.

The lack of immediate access to patient healthcare information is the source of one-fifth of these errors.

One of every seven primary care visits is affected by missing medical information. In a recent study, 80 percent of errors were initiated by miscommunication, including missed communication between physicians, misinformation in medical records, mishandling of patient requests and messages, inaccessible records, mislabeled specimens, misfiled or missing charts, and inadequate reminder systems.

Under the current paper-based system, patients and their doctors lack instant, constant access to medical information. As a result,

**Mission Statement**  
"We will make wide records and other technology to help reduce dangerous  
-- President Bush

"...to link all health an interoperable s privacy as it connects providers and pay fewer medical mis lower costs and be  
-- HHS Secretary

**News**  
**05/17/2006 - Ar Information Comm First Set of Recor**  
**01/17/2006 - Hi Project Launched t Electronic Prescrib**  
**11/17/2005 - Ch Enters Into Agreee Digital Health Recd Case**

**Spee**  
**10/17/2005 -**