National Center for Health Statistics

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Provisional Death Counts for Coronavirus

Disease (COVID-19)

The provisional counts for coronavirus disease (COVID-19) deaths are based on a current flow of
mortality data in the National Vital Statistics System. National provisional counts include deaths
occurring within the 50 states and the District of Columbia that have been received and coded as of
the date specified. It is important to note that it can take several weeks for death records to be submitted to National Center for Health Statistics (NCHS), processed, coded, and tabulated. Therefore, the data shown on this page may be incomplete, and will likely not include all deaths that occurred during a given time period, especially for the more recent time periods. Death counts for earlier weeks are continually revised and may increase or decrease as new and updated death certificate data are received from the states by NCHS. COVID-19 death counts shown here may differ from other published sources, as data currently are lagged by an average of 1–2 weeks.

The provisional data presented on this page include the weekly provisional count of deaths in the United States due to COVID-19, deaths from all causes and percent of expected deaths (i.e., number of deaths received over number of deaths expected based on data from previous years), pneumonia deaths (excluding pneumonia deaths involving influenza), pneumonia deaths involving COVID-19, and influenza deaths; (a) by week ending date, (b) by age at death, (c) by sex, (d) by place of death, and (e) by specific jurisdictions. Future updates to this release may include additional detail such as demographic characteristics, additional causes of death (e.g., acute respiratory distress syndrome or other comorbidities), or estimates based on models that account for reporting delays to generate more accurate predicted provisional counts.

Pneumonia and influenza deaths are included to provide context for understanding the completeness of COVID-19 mortality data and related trends. Deaths due to COVID-19 may be misclassified as pneumonia or influenza deaths in the absence of positive test results, and these conditions may appear on death certificates as a comorbid condition. Thus, increases in pneumonia or influenza deaths may be an indicator of excess COVID-19-related mortality. Additionally, estimates of completeness for influenza or pneumonia deaths may provide context for understanding the lag in reporting for COVID-19 deaths, as it is anticipated that these causes would have similar delays in reporting, processing, and coding. However, it is possible that reporting of COVID-19 mortality may be slower or faster than for other causes of death, and that the delay may change over time. Analyses to better understand and quantify reporting delays for COVID-19 deaths and related causes are underway. The list of causes provided in these tables may expand in future releases as more data are received, and other potentially comorbid conditions are determined.

Table 1. Deaths involving coronavirus disease 2019 (COVID-19), pneumonia, Table 1. Deaths involving coronavirus disease 2019 (COVID-19), pneumonia, and influenza reported to NCHS by week ending date, United States. Week uenza reported to NCHS by week ending date, United States. Week ending 2/1/2020 to 4/11/2020.* ending 2/1/2020 to 4/11/2020.*

Data as of April 14, 2020 Data as of April 14, 2020

NOTE: Number of deaths reported in this table are the total number of deaths received and coded as of the date of analysis and do not represent all deaths that occurred in that period.
*Data during this period are incomplete because of the lag in time between when the death occurred and when the death certificate is completed, submitted to NCHS and processed for reporting purposes. This delay can range from 1 week to 8 weeks or more, depending on the jurisdiction, age, and cause of death.
Deaths with confirmed or presumed COVID-19, coded to ICD–10 code U07.1
Percent of expected deaths is the number of deaths for all causes for this week in 2020 compared to the average number across the same week in 2017–2019. Previous analyses of 2015–2016 provisional data completeness have found that completeness is lower in the first few weeks following the date of death (8).
Pneumonia death counts exclude pneumonia deaths involving influenza.
Influenza death counts include deaths with pneumonia or COVID-19 also listed as a cause of death.
Population is based on 2018 postcensal estimates from the U.S. Census Bureau (9)

Table 2. Deaths involving coronavirus disease 2019 (COVID-19), pneumonia, Table 2. Deaths involving coronavirus disease 2019 (COVID-19), pneumonia, and influenza reported to NCHS by age group, United States. Week ending uenza reported to NCHS by age group, United States. Week ending 2/1/2020 to 4/11/2020.* 2/1/2020 to 4/11/2020.*

Data as of April 14, 2020 Data as of April 14, 2020

NOTE: Number of deaths reported in this table are the total number of deaths received and coded as of the date of analysis and do not represent all deaths that occurred in that period.
*Data during this period are incomplete because of the lag in time between when the death occurred and when the death certificate is completed, submitted to NCHS and processed for reporting purposes. This delay can range from 1 week to 8 weeks or more, depending on the jurisdiction, age, and cause of death.
Deaths with confirmed or presumed COVID-19, coded to ICD–10 code U07.1.
Pneumonia death counts exclude pneumonia deaths involving influenza.
Influenza death counts include deaths with pneumonia or COVID-19 also listed as a cause of death.
Population is based on 2018 postcensal estimates from the U.S. Census Bureau (9)

Table 3. Deaths involving coronavirus disease 2019 (COVID-19), pneumonia, Table 3. Deaths involving coronavirus disease 2019 (COVID-19), pneumonia, and influenza reported to NCHS by sex, United States. Week ending uenza reported to NCHS by sex, United States. Week ending 2/1/2020 to 4/11/2020.* 2/1/2020 to 4/11/2020.*

Data as of April 14, 2020 Data as of April 14, 2020

NOTE: Number of deaths reported in this table are the total number of deaths received and coded as of the date of analysis and do not represent all deaths that occurred in that period.
*Data during this period are incomplete because of the lag in time between when the death occurred and when the death certificate is completed, submitted to NCHS and processed for reporting purposes. This delay can range from 1 week to 8 weeks or more, depending on the jurisdiction, age, and cause of death.
Deaths with confirmed or presumed COVID-19, coded to ICD–10 code U07.1.
Pneumonia death counts exclude pneumonia deaths involving influenza.
Influenza death counts include deaths with pneumonia or COVID-19 also listed as a cause of death.

Table 4. Deaths involving coronavirus disease 2019 (COVID-19), pneumonia, Table 4. Deaths involving coronavirus disease 2019 (COVID-19), pneumonia, and influenza reported to NCHS by place of death, United States. Week uenza reported to NCHS by place of death, United States. Week ending 2/1/2020 to 4/11/2020.* ending 2/1/2020 to 4/11/2020.*

Data as of April 14, 2020 Data as of April 14, 2020

NOTE: Number of deaths reported in this table are the total number of deaths received and coded as of the date of analysis and do not represent all deaths that occurred in that period.
*Data during this period are incomplete because of the lag in time between when the death occurred and when the death certificate is completed, submitted to NCHS and processed for reporting purposes. This delay can range from 1 week to 8 weeks or more, depending on the jurisdiction, age, and cause of death.
Deaths with confirmed or presumed COVID-19, coded to ICD–10 code U07.1.
Pneumonia death counts exclude pneumonia deaths involving influenza.
Influenza death counts include deaths with pneumonia or COVID-19 also listed as a cause of death.

Table 5. Deaths involving coronavirus disease 2019 (COVID-19), pneumonia, Table 5. Deaths involving coronavirus disease 2019 (COVID-19), pneumonia, and influenza reported to NCHS by jurisdiction of occurrence, United States. uenza reported to NCHS by jurisdiction of occurrence, United States. Week ending 2/1/2020 to 4/11/2020.* Week ending 2/1/2020 to 4/11/2020.*

Data as of April 14, 2020 Data as of April 14, 2020

NOTE: Number of deaths reported in this table are the total number of deaths received and coded as of the date of analysis and do not represent all deaths that occurred in that period.
*Data during this period are incomplete because of the lag in time between when the death occurred and when the death certificate is completed, submitted to NCHS and processed for reporting purposes. This delay can range from 1 week to 8 weeks or more, depending on the jurisdiction, age, and cause of death.
Deaths with confirmed or presumed COVID-19, coded to ICD–10 code U07.1.
Percent of expected deaths is the number of deaths for all causes for this week in 2020 compared to the average number across the same week in 2017–2019.
Pneumonia death counts exclude pneumonia deaths involving influenza.
Influenza death counts include deaths with pneumonia or COVID-19 also listed as a cause of death.
United States death count includes the 50 states, plus the District of Columbia and New York City.
Excludes New York City.

Technical Notes Technical Notes

Comparing data in this report to other sources Comparing data in this report to other sources

Provisional death counts in this report will not match counts in other sources, such as media reports or numbers from county health departments. Death data, once received and processed by National Center for Health Statistics (NCHS), are tabulated by the state or jurisdiction in which the death occurred. Death counts are not tabulated by the decedent’s state of residence. COVID-19 deaths may also be classified or defined differently in various reporting and surveillance systems. Death counts in this report include laboratory confirmed COVID-19 deaths and clinically confirmed COVID-19 deaths. This includes deaths where COVID-19 is listed as a “presumed” or “probable” cause. Some local and state health departments only report laboratory-confirmed COVID deaths. This may partly account for differences between NCHS reported death counts and death counts reported in other sources. Provisional counts reported here track approximately 1–2 weeks behind other published data sources on the number of COVID-19 deaths in the U.S. (1,2,3).

Nature and sources of data Nature and sources of data

Provisional death counts are based on death records received and processed by NCHS as of a specified cutoff date. National provisional counts include deaths occurring within the 50 states and the District of Columbia. NCHS receives the death records from state vital registration offices through the Vital Statistics Cooperative Program. Provisional data are based on available records that meet certain data quality criteria at the time of analysis and may not include all deaths that occurred during a given time period especially for more recent periods. Estimates of completeness are provided. Therefore, they should not be considered comparable with final data and are subject to change.

Cause-of-death classification and definition of deaths Cause-of-death classification and definition of deaths

Mortality statistics are compiled in accordance with World Health Organization (WHO) regulations specifying that WHO member nations classify and code causes of death with the current revision of the International Statistical Classification of Diseases and Related Health Problems (ICD). ICD provides the basic guidance used in virtually all countries to code and classify causes of death. It provides not only disease, injury, and poisoning categories but also the rules used to select the single underlying cause of death for tabulation from the several diagnoses that may be reported on a single death certificate, as well as definitions, tabulation lists, the format of the death certificate, and regulations on use of the classification. Causes of death for data presented in this report were coded according to ICD guidelines described in annual issues of Part 2a of the NCHS Instruction Manual (4).

Coronavirus disease deaths are identified using the ICD–10 code U07.1. Deaths are coded to U07.1 when coronavirus disease 2019 or COVID-19 are reported as a cause that contributed to death on the death certificate. These can include laboratory confirmed cases, as well as cases without laboratory confirmation. If the certifier suspects COVID-19 or determines it was likely (e.g., the circumstances were compelling within a reasonable degree of certainty), they can report COVID-19 as “probable” or “presumed” on the death certificate (5, 6).

Pneumonia deaths are identified using underlying cause-of-death codes from the 10th Revision of ICD (ICD–10): J12–J18, excluding deaths that involve influenza (J09–J11). Influenza deaths are identified from the ICD–10 codes J09–J11, and include deaths with pneumonia or COVID-19 listed as a contributing cause of death.

Estimated completeness of data Estimated completeness of data

Provisional data are incomplete, and the level of completeness varies by jurisdiction, week, decedent’s age, and cause of death. Until data for a calendar year are finalized, typically in December of the following year, completeness of provisional data cannot be determined. However, completeness can be estimated in a variety of ways. Surveillance systems that rely on weekly monitoring of provisional mortality data, such as CDC’s FluView Interactive mortality surveillance (7), estimate completeness by comparing the count of deaths in a given week of the current year to the average count of deaths in that same week of the previous 3 years. These estimates can be generated for specific causes of death, jurisdictions, and age groups, and updated on a weekly or daily basis. For the purposes of COVID-19 surveillance, completeness is approximated by comparing the provisional number of deaths received to the number of expected deaths based on prior years data. Percent of expected deaths provided in this data release are based on the total count of deaths in the most recent weeks of the current year, compared with an average across the same weeks of the three previous years (i.e., 2017–2019). These estimates of completeness are calculated by week, jurisdiction of occurrence, and age group.

It is important to note that the true levels of completeness are unknown, and the estimates provided here are only a proxy. In cases where mortality rates are increasing rapidly, particularly when excess deaths due to a novel cause are occurring, values for completeness for recent weeks may exceed 100% even when NCHS has yet to receive all available data. Conversely, if the number of deaths was elevated in prior years due to a severe flu season, for example, estimated completeness in the most recent weeks may be lower than the true value. To avoid relying too heavily on comparisons to a single week of a single prior year, estimates of completeness included in this release are based on the average counts in a given week across 3 prior years (e.g., the 12th week of 2017, 2018, and 2019).

Percent of expected deaths provided in this release are shown to provide context for interpreting provisional counts of COVID-19 deaths and deaths due to related causes. Where estimated values are high (e.g., greater than 100%), this suggests that mortality is higher in 2020 relative to the same weeks of prior years. Where estimated values of completeness are low, this could indicate that data are incomplete due to delayed reporting, or that mortality is lower in 2020 compared with prior years, or some combination of these factors.

Delays in reporting Delays in reporting

Provisional counts of deaths are underestimated relative to final counts. This is due to the many steps involved in reporting death certificate data. When a death occurs, a certifier (e.g. physician, medical examiner or coroner) will complete the death certificate with the underlying cause of death and any contributing causes of death. In some cases, laboratory tests or autopsy results may be required to determine the cause of death. Completed death certificate are sent to the state vital records office and then to NCHS for cause of death coding. At NCHS, about 80% of deaths are automatically processed and coded within seconds, but 20% of deaths need to manually coded, or coded by a person. Deaths involving certain conditions such as influenza and pneumonia are more likely to require manual coding than other causes of death. Furthermore, all deaths with COVID-19 are manually coded. Death certificates are typically manually coded within 7 days of receipt, although the coding delay can grow if there is a large increase in the number of deaths. As a result, underestimation of the number of deaths may be greater for certain causes of death than others.

Previous analyses of provisional data completeness from 2015 suggested that mortality data is approximately 27% complete within 2 weeks, 54% complete within 4 weeks, and at least 75% complete within 8 weeks of when the death occurred (8). Pneumonia deaths are 26% complete within 2 weeks, 52% complete within 4 weeks, and 72% complete within 8 weeks (unpublished). Data timeliness has improved in recent years, and current timeliness is likely higher than published rates.

Place of Death Place of Death

Place of death noted on the death certificate is determined by where the death was pronounced and on the physical location where the of the death occurred (10). Healthcare setting includes hospitals, clinics, medical facilities, or other licensed institutions providing diagnostic and therapeutic services by medical staff. Decedent’s home includes independent living units such as private homes, apartments, bungalows, and cottages. Hospice facility refers to a licensed institution providing hospice care (e.g., palliative and supportive care for the dying), but not to hospice care that might be provided in other settings, such as a patient’s home. Nursing home/long-term care facility refers to a facility that is not a hospital but provides patient care beyond custodial care, such as a nursing home, skilled nursing facility, a long-term care facility, convalescent care facility, intermediate care facility, or residential care facility. Other includes such locations as a licensed ambulatory/surgical center, birthing center, physician’s office, prison ward, public building, worksite, outdoor area, orphanage, or facilities offering housing and custodial care but not patient care (e.g., board and care home, group home, custodial care facility, foster home).

Comparing deaths from di Comparing deaths from different states erent states

Death counts should not be compared across states. Data timeliness varies by state. Some states report deaths on a daily basis, while other states report deaths weekly or monthly. Furthermore, health departments and state vital record offices may be affected by COVID-19 related response activities, which could further delay death certificate reporting. Currently, 63% of U.S. deaths are reported within 10 days of the date of death, but there is variation within states. Twenty states report over 75% of deaths within the first 10 days, while three states report fewer than 1% of deaths within 10 days.

Why are pneumonia and influenza deaths included in this report? Why are pneumonia and influenza deaths included in this report?

Pneumonia and influenza deaths are included to provide context for understanding the completeness of COVID-19 mortality data and related trends. Deaths due to COVID-19 may be misclassified as pneumonia or influenza deaths in the absence of positive test results, and pneumonia or influenza may appear on death certificates as a comorbid condition. Additionally, COVID-19 symptoms can be similar to influenza-like illness, thus deaths may be misclassified as influenza. Thus, increases in pneumonia and influenza deaths may be an indicator of excess COVID-19-related mortality. Additionally, estimates of completeness for pneumonia and influenza deaths may provide context for understanding the lag in reporting for COVID-19 deaths, as it is anticipated that these causes would have similar delays in reporting, processing, and coding.

Source

NCHS, National Vital Statistics System. Estimates are based on provisional data.

References References

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& Note: Provisional death counts are based on death certificate data received and coded by
the National Center for Health Statistics as of April 14, 2020. Death counts are delayed and
may differ from other published sources (see Technical Notes). Counts will be updated periodically. Additional information will be added to this site as available.

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Week
ending
date in
which the
death
occurred

COVID-
19
Deaths
(U07.1)

Deaths
from
All
Causes

Percent
of
Expected
Deaths

Pneumonia
Deaths
(J12.0–
J18.9)

Deaths with
Pneumonia
and COVID-
19
(J12.0–J18.9
and U07.1)

Influenza
Deaths
(J09–J11)

Population

Total Deaths 8,259 8,259 541,934 86 39,961 3,716 4,820 327,167,434

2/1/2020 00 56,474 95 3,630 0 453 327,167,434

2/8/2020 00 56,854 95 3,614 0 486 327,167,434

2/15/2020 00 55,490 94 3,605 0 495 327,167,434

2/22/2020 00 55,077 95 3,450 0 508 327,167,434

2/29/2020 55 54,679 95 3,487 3 578 327,167,434

3/7/2020 1919 54,059 93 3,585 11 559 327,167,434

3/14/2020 4444 51,816 91 3,521 22 541 327,167,434

3/21/2020 442 442 50,665 89 3,874 203 456 327,167,434

3/28/2020 2,117 2,117 50,128 90 4,759 966 336 327,167,434

4/4/2020 3,819 3,819 42,032 75 4,828 1,791 296 327,167,434

4/11/2020 1,813 1,813 14,660 27 1,608 720 112 327,167,434

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Age
group

COVID-19
Deaths
(U07.1)

Deaths from
All Causes

Pneumonia
Deaths
(J12.0–
J18.9)

Deaths with
Pneumonia and
COVID-19
(J12.0–J18.9 and
U07.1)

Influenza
Deaths
(J09–J11)

Population

All ages 8,259 8,259 541,934 39,961 3,716 4,820 327,167,434

Under 1
year

00 2,878 23 0 10 3,848,208

1–4
years

11 574 28 1 26 15,962,067

5–14
years

11 842 26 0 34 41,075,169

15–24
years

77 4,852 93 2 35 42,970,800

25–34
years

7474 10,183 279 27 113 45,697,774

35–44
years

188 188 14,618 599 60 171 41,277,888

45–54
years

475 475 28,221 1,551 185 405 41,631,699

55–64
years

1,086 1,086 68,356 4,710 461 876 42,272,636

65–74
years

1,821 1,821 106,462 8,157 749 1,051 30,492,316

75–84
years

2,248 2,248 134,217 11,095 1,062 1,083 15,394,374

85 years
and
over

2,358 2,358 170,731 13,400 1,169 1,016 6,544,503

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Sex COVID-19 Deaths
(U07.1)

Deaths from All
Causes

Pneumonia
Deaths
(J12.0–J18.9)

Deaths with Pneumonia
and COVID-19
(J12.0–J18.9 and U07.1)

Influenza
Deaths
(J09–J11)

Total

deaths 8,259 8,259 541,934 39,961 3,716 4,820

Male 4,918 4,918 278,621 21,051 2,170 2,434

Female 3,341 3,341 263,295 18,910 1,546 2,386

Unknown 00 18 0 0 0

1
2 2 3

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Place of death

COVID-19
Deaths
(U07.1)

Deaths
from All
Causes

Pneumonia
Deaths
(J12.0–
J18.9)

Deaths with
Pneumonia and
COVID-19
(J12.0–J18.9 and
U07.1)

Influenza
Deaths
(J09–J11)

Total 8,259 8,259 541,934 39,961 3,716 4,820

Healthcare setting, inpatient 6,120 6,120 153,817 26,973 3,040 3,279

Healthcare setting,
outpatient or emergency

room

517 517 32,468 1,478 183 160

Healthcare setting, dead on
arrival 1313 1,440 32 4 10

Decedent's home 632 632 174,898 3,288 72 657

Hospice facility 8686 41,291 2,354 48 265

Nursing home/long term

care facility 830 830 103,617 5,131 346 388

Other 6161 34,320 696 23 61

Place of death unknown 00 83 9 0 0

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2

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Jurisdiction
of
Occurrence

COVID-19
Deaths
(U07.1)

Deaths
from All
Causes

Percent of
Expected
Deaths

Pneumonia
Deaths
(J12.0–
J18.9)

Deaths with
Pneumonia and
COVID-19
(J12.0–J18.9 and
U07.1)

Influenza
Deaths
(J09–J11)

United States 8,259 8,259 541,934 86 39,961 3,716 4,820

Alabama 1818 9,573 82 562 7 76

Alaska 11 686 74 33 1 3

Arizona 5151 12,208 91 796 28 95

Arkansas 1010 6,330 89 412 2 64

California 264 264 55,170 91 4,420 147 519

Colorado 115 115 8,270 95 564 66 80

Connecticut 00 0 0 0 0 0

Delaware 22 1,476 72 72 2 9

District of

Columbia 77 1,122 84 97 7 5

Florida 223 223 43,630 93 2,919 136 254

Georgia 9696 15,022 81 853 54 84

Hawaii 22 2,361 92 161 0 16

Idaho 1616 2,929 93 159 5 24

Illinois 7777 21,441 91 1,560 47 152

Indiana 4747 12,818 87 978 21 111

Iowa 1818 6,043 90 433 3 76

Kansas 1111 5,272 88 350 4 81

Kentucky 66 8,117 76 692 3 76

Louisiana 168 168 8,018 80 430 71 56

Maine 1111 3,103 95 269 6 29

Maryland 9393 10,504 94 802 49 92

Massachusetts 194 194 12,659 94 1,106 93 137

Michigan 312 312 19,690 91 1,380 144 192

Minnesota 1818 8,994 92 615 7 109

Mississippi 3535 6,319 91 527 18 51

Missouri 3030 11,974 83 718 13 158

Montana 33 1,911 83 116 1 30

Nebraska 33 3,260 86 249 2 25

Nevada 3737 5,131 90 373 27 34

New

Hampshire 2323 2,640 97 174 9 29

New Jersey 593 593 16,044 96 1,305 303 93

New Mexico 33 3,327 81 225 2 23

New York 1,264 1,264 22,928 103 2,639 715 169

New York City 3,670 3,670 18,243 152 2,744 1,356 370

North Carolina 00 5,405 25 340 0 53

North Dakota 33 1,350 87 113 0 17

Ohio 1212 20,761 75 1,073 6 194

Oklahoma 2626 6,768 76 587 8 80

Oregon 2222 6,565 81 345 13 50

Pennsylvania 220 220 21,573 70 1,348 98 170

Rhode Island 22 1,768 76 87 1 21

South Carolina 3838 10,291 95 593 14 87

South Dakota 44 1,452 80 111 1 18

Tennessee 2828 14,756 90 1,070 13 114

Texas 8080 38,874 87 2,751 31 287

Utah 1010 3,891 94 233 4 36

Vermont 1717 1,230 96 78 6 14

Virginia 5151 13,696 90 680 19 88

Washington 278 278 11,521 90 916 142 93

West Virginia 00 2,916 58 204 0 33

Wisconsin 4747 11,010 94 632 11 136

Wyoming 00 894 91 67 0 7

Puerto Rico 1818 3,775 60 527 13 26

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National Vital Statistics
System

Coronavirus Disease
(COVID-19) Death Data
and Reporting Guidance

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Coronavirus 2019 Coronavirus 2019
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Surveillance Surveillance

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