



Michigan Flu Focus

Weekly Influenza Surveillance Report

March 11, 2022

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Week Ending March 5, 2022 | WEEK 9

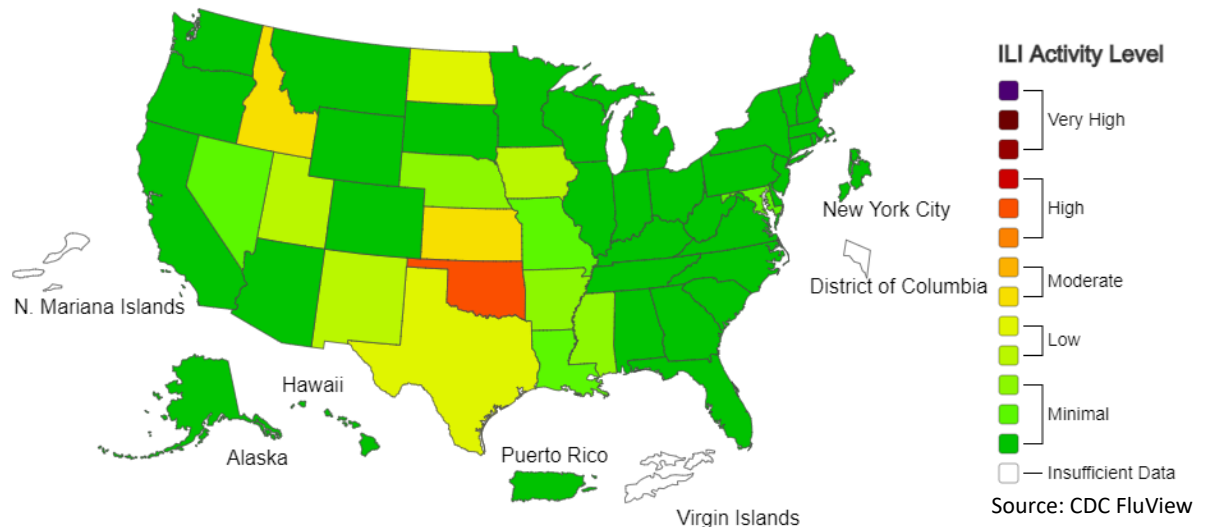
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Data provided in this report are preliminary and will be updated as additional data is received

Outpatient Respiratory Illness Activity Map Determined by Data Reported to ILINet

This system monitors visits for respiratory illness that includes fever plus a cough or sore throat, also referred to as ILI, not laboratory confirmed influenza and may capture patient visits due to other respiratory pathogens that cause similar symptoms.
2021-22 Influenza Season Week 9 ending Mar 05, 2022



Note: This map represents U.S. ILI activity levels reported to ILINet. The display used in past seasons showing Geographic spread of influenza has been suspended for the 2021-2022 influenza season

Updates of Interest

Influenza activity is increasing in most of the country. CDC estimates that so far this season there have been at least 2.7 million flu illnesses, 26,000 hospitalizations, and 1,500 deaths from flu nationally.

Please see the following link to CDC's FluView report for more details: <https://www.cdc.gov/flu/weekly/>

Seasonal Flu Vaccination Coverage

Michigan's goal is to vaccinate **4 million** residents during the 2021-2022 flu season.

As of **March 5, 2022** there have been **3,142,732** doses administered (**81.2%** towards goal) for the 2021-2022 flu season.

Please visit the Flu Vaccination Dashboard at www.michigan.gov/flu for more info.

Influenza-associated Pediatric Mortality

Nationally, ten (10) influenza-associated pediatric deaths have been reported thus far for the 2021-2022 flu season.

No pediatric deaths have been confirmed by MDHHS for the 2021-2022 flu season to date.

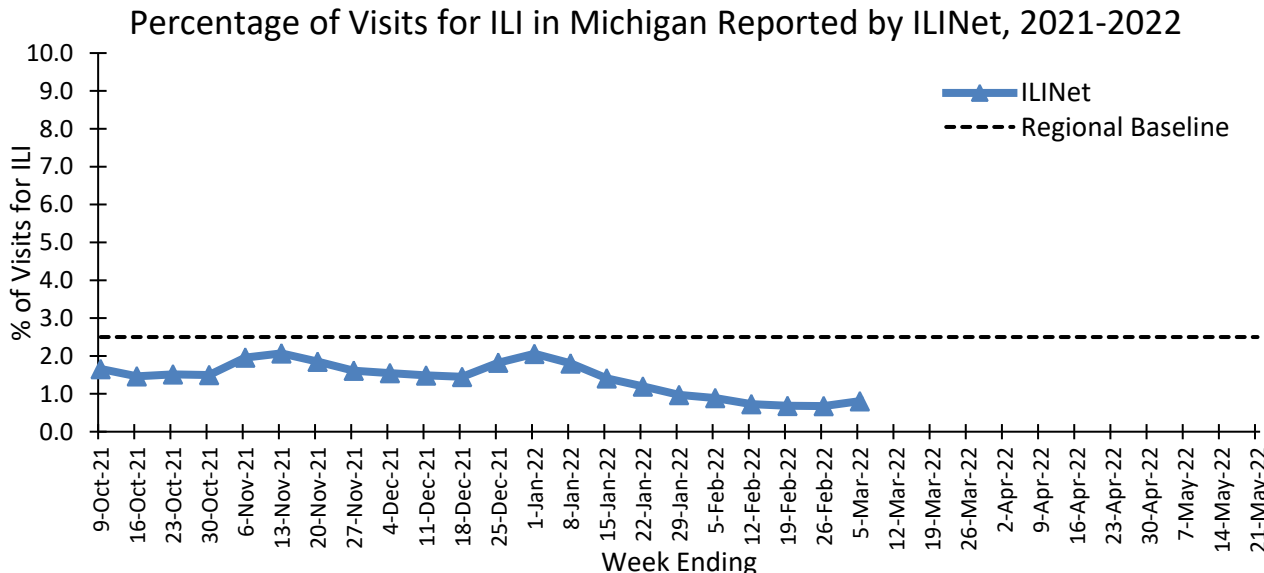
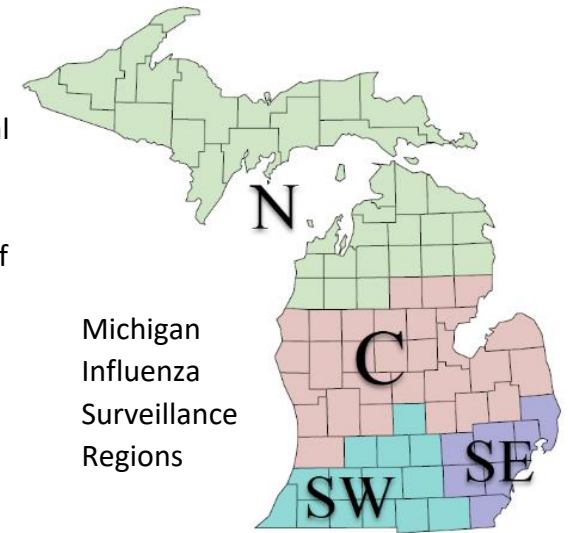
U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet)

Michigan participates in ILINet, a collaborative effort between the CDC, state and local health departments, and volunteer sentinel clinicians as part of Michigan’s influenza surveillance. ILINet provides data on the total number of outpatient visits to health care providers seen for any reason and the number of those patients with influenza-like illness (ILI[‡]). Participating Michigan emergency department and urgent care facilities send syndromic data voluntarily in near real-time to the Electronic Surveillance System for the Early Notification of Community Based Epidemics (ESSENCE). Discharge diagnosis and chief complaint data elements are used to determine whether visits meet the ILI case definition. One-hundred and forty-one (141) Michigan facilities contributing data to ESSENCE were validated and enrolled in ILINet for the 2021-2022 flu season.

[‡]ILI is defined as fever (>100°F) and a cough and/or a sore throat (new definition for the 2021-2022 season).

Number of Reports and ILI % by Region during this time period:

Region	C	N	SE	SW
No. of Reporters (151)	51	18	53	29
ILI %	0.9	1.5	0.7	0.9



Note: ILINet monitors visits for ILI (fever and cough and/or sore throat) and may capture patient visits due to other respiratory pathogens that cause similar symptoms.

Michigan ILI Activity: **0.8%**

(Last week: 0.7%)

Regional Baseline*: 2.5%

A total of 553 patient visits due to ILI were reported out of 68,573 outpatient visits for Week 9.

*Regional baseline is determined by calculating the mean percentage of patient visits due to ILI during non-influenza weeks for the previous three seasons and adding two standard deviations.

National Surveillance

In the United States, **1.6%** of outpatient visits were due to ILI (Last week: 1.4%)

This is **below** the national baseline of 2.5%

Become an ILINET provider!

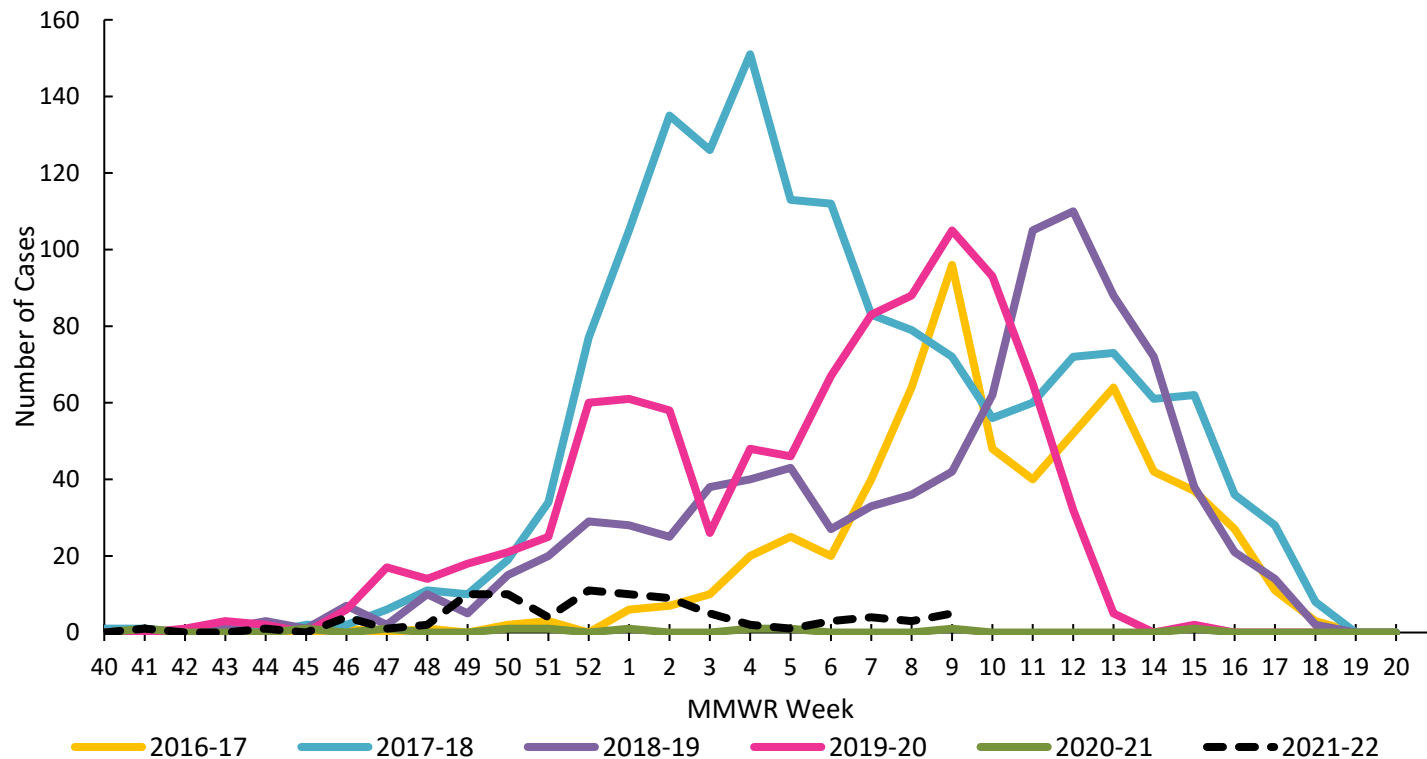
Contact Shelly Doebler at DoeblerM@michigan.gov

Influenza Hospitalization Surveillance Project (IHSP)

The CDC's Influenza Hospitalization Surveillance Network (FluSurv-NET) provides population-based rates of laboratory-confirmed influenza-associated hospitalizations from October 1st through April 30th each year. Michigan participates as an IHSP state in FluSurv-NET for Clinton, Eaton, Genesee, Ingham, and Washtenaw Counties.

There were 5 (3 pediatric, 2 adult) influenza-associated hospitalizations reported to MDHHS for the IHSP during this time period. Since October 1st, 86 (22 pediatric, 64 adult) influenza-associated hospitalizations were reported in the catchment area for the 2021-2022 season.

IHSP Cases, 2016-2017 through 2021-2022



Washtenaw County was added in the 2017-2018 season

Join the Influenza Sentinel Hospital Network (ISHN)!

What is it? ISHN is a group of hospitals in Michigan that voluntarily report weekly aggregate counts of influenza positive inpatients to assist MDHHS with statewide influenza surveillance.

How it works: As a participating hospital in the ISHN, you would complete a brief Survey Monkey every week containing:

- Number of hospitalizations with a positive influenza test by age group during that time period
- The total number of hospitalizations due to any condition during that time period (if available)

The data you provide will assist public health in recognizing changes in the age or geographic distribution of influenza in this population.

If your facility is interested in participating or would like more information, please contact Sue Kim (KimS2@michigan.gov)

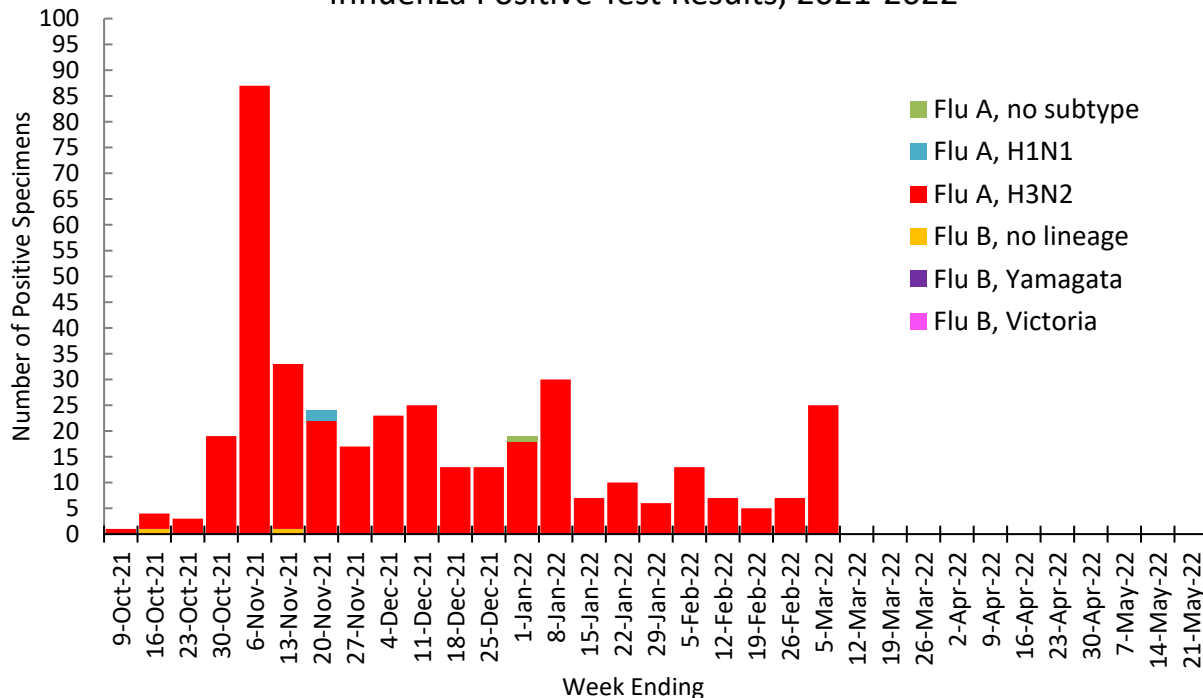
MDHHS BOL Virology Laboratory Data

There were 25 (7C, 0N, 8SE, 10SW) positive influenza results reported by the MDHHS Bureau of Laboratories (BOL) during this time period. Positive flu results for the 2021-2022 season are summarized below.

of Positive Influenza Virus Results by Region

	C	N	SE	SW	Total
H1N1	0	0	2	0	2
H3N2	97	21	190	78	386
Infl B	0	0	2	0	2
Total	97	21	194	78	390

Influenza Positive Test Results, 2021-2022



Note: Based on Specimen Collection Date. Flu B lineage data will be reported based on MDHHS BOL testing runs and will be backtracked into this graph

Michigan Sentinel Clinical Lab Network Respiratory Virus Data

Nine (9) sentinel clinical labs (2SE, 1SW, 5C, 1N) reported for the week ending 03/05/2022

SE Region	
Influenza A:	elevated
Influenza B:	no activity
Parainfluenza:	low
RSV:	slightly elevated
Adenovirus:	low
hMPV:	elevated
Central Region	
Influenza A:	low – moderate
Influenza B:	sporadic – slightly elevated
Parainfluenza:	sporadic – low
RSV:	sporadic – low
Adenovirus:	low
hMPV:	elevated
SW Region	
Influenza A:	low
Influenza B:	no activity
Parainfluenza:	sporadic – low
RSV:	sporadic – low
Adenovirus:	sporadic – low
hMPV:	low
North Region	
Influenza A:	low
Influenza B:	no activity
Parainfluenza:	sporadic – low
RSV:	sporadic – low
Adenovirus:	sporadic
hMPV:	no activity

There were 0 influenza outbreaks reported to MDHHS during this time period. Influenza outbreaks for the 2021-2022 season are summarized below.

of Influenza Outbreaks by MI Region

Facility Type	C	N	SE	SW	Total
Schools: K-12 & College	2	1	1	2	6
Long-term Care / Assisted Living Facility	6	1	0	1	8
Healthcare Facility	0	0	0	0	0
Daycare	0	0	0	0	0
Homeless Shelter	0	0	0	0	0
Correctional Facility	0	0	0	0	0
Other	0	0	0	0	0
Total	8	2	1	3	14

Did you know?

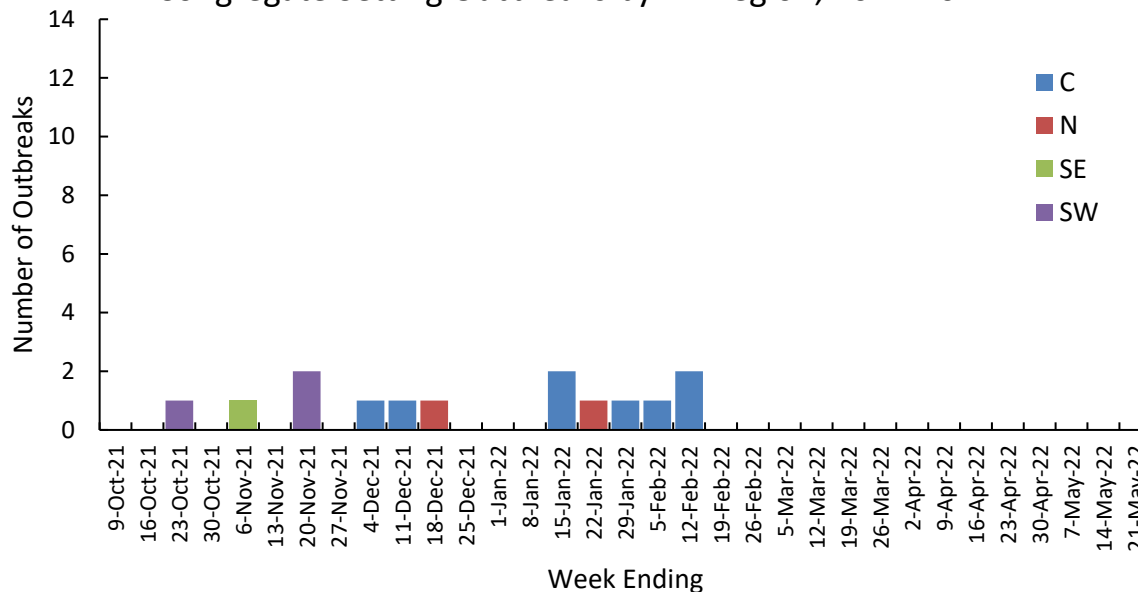
Congregate setting outbreaks of viral respiratory illness are required to be reported to your local health department? See:

- [Influenza Guidance for Healthcare Providers](#)
- [Guideline for influenza and Respiratory Virus Outbreaks in Long-Term Care Facilities](#)

Note: Data are reported on laboratory confirmed influenza outbreaks. For information on outbreaks exclusively associated with COVID-19, please visit the MDHHS Covid-19 webpage located under Additional Resources on the last page. Non-flu, non-COVID outbreaks and ILI outbreaks without confirmatory flu testing are not reported in the table and graph.

Mixed outbreaks with confirmed flu (including COVID) will be included in the table and graph. There were 0 mixed outbreaks reported during Week 9.

Congregate Setting Outbreaks by MI Region, 2021-2022



CDC Reports Decreased Influenza Vaccination Coverage in Pregnant Persons for the 2021-2022 Flu Season

As of March 4, 2022, Centers for Disease Control and Prevention (CDC) continues to report isolated areas of increasing influenza activity with overall fluctuations across the United States. CDC recommends annual influenza vaccination for everyone 6 months and older, including pregnant persons, and urges providers to continue offering flu vaccination while influenza remains present.

According to CDC's [Vaccine Safety Datalink](#), as of February 12, 2022, 51.4% of pregnant persons aged 18-49 have received a flu vaccine this flu season. This is a decrease of 8.7% in flu vaccination coverage compared to the 2020-2021 (60.1%) flu season and a decrease of 11.4% compared to the 2019-2020 (62.8%) season. Pregnant persons are considered at high risk for severe influenza. Preliminary data from FluSurv-NET shows as of March 4, 2022, 52% of reproductive-aged women hospitalized with influenza were pregnant.

The Advisory Committee on Immunization Practices (ACIP) recommends inactivated influenza vaccine (IIV) for pregnant persons in any trimester, before and during the influenza season.

Healthcare providers continue to be trusted messengers of the safety and efficacy of the flu vaccine for pregnant persons. A [meta-analysis](#) of 39 studies, and published in August 2021, found preliminary evidence suggesting physician and nurse education significantly increases seasonal influenza vaccination rates (20.1%) among adults compared with no intervention. MDHHS urges providers to continue to offer influenza vaccination for all pregnant persons unless contraindicated.

Vaccines are widely available, and individuals can find a location to get a flu vaccine at <https://www.vaccines.gov/>.

Influenza News Blast

- [World Health Organization \(WHO\) Influenza Update](#)
- [Study Identifies Racial and Ethnic Disparities in Severe Flu Outcomes](#)
- [Scientists Are Working on Combo Flu and COVID-19 Shot](#)
- [H5N1 Bird Flu Virus in U.S. Wild Birds, Poultry Poses a Low Risk to the Public](#)
- [CDC Study in Kenya Suggests Being Pregnant Doubles the Risk of Flu Illness](#)
- [Mandatory Influenza Vaccination for Healthcare Personnel Honor Roll](#)
- [CDC 2021-2022 Flu Vaccination Campaign Kickoff](#)

Additional Resources

- [MDHHS Influenza Webpage](#)
- [MDHHS COVID-19 Outbreak Reporting](#)
- [MDHHS Bureau of Laboratories \(BOL\) Webpage and Test Request Forms](#)
- [Influenza Surveillance in Michigan](#)
- [Immunization Action Coalition: Ask the Experts - Flu](#)
- [CDC Healthcare Professionals Flu Toolkit](#)
- [CDC FluView Weekly Report](#)

View Michigan Flu Focus Report archives [here](#).

Influenza Burden Estimates

The Centers for Disease Control and Prevention (CDC) have released [preliminary in-season burden estimates](#) for the 2021-2022 flu season.

CDC estimates that, from **October 1, 2021 through March 5, 2022** there have been:

- **2.7 million – 4.5 million** flu illnesses
- **1.2 million – 2 million** flu medical visits
- **26,000 – 54,000** flu hospitalizations
- **1,500 – 4,500** flu deaths

Note: CDC was not able to calculate the cumulative burden of flu for the 2020-2021 flu season, due to historically low numbers of flu.

More information on the 2020-2021 flu season burden estimates is available [here](#).

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