

Supplementary Materials

Variations in VOCs Emissions and Their O₃ and SOA Formation Potential among Different Ages of Plant Foliage

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Citation: Zhang, B.; Qiao, L.; Han, H.; Xie, W.; Li, L. Variations in VOCs Emissions and Their O₃ and SOA Formation Potential among Different Ages of Plant Foliage. *Toxics* **2023**, *11*, 645. <https://doi.org/10.3390/toxics11080645>

Academic Editor: Yuan Cheng

Received: 21 June 2023

Revised: 21 July 2023

Accepted: 22 July 2023

Published: 25 July 2023



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Text S1. Emission rate standardization.

Referring to Guenther et al. [28], the actual emission rates of each VOC's component were converted to the standard ones under the standard conditions of temperature=30°C and PAR=1000 $\mu\text{mol}/(\text{m}^2\cdot\text{s})$ using Equation (S1).

$$EF_{s,i} = EF_i \times \gamma_{P,i} \times \gamma_{T,i} \quad (\text{S1})$$

where $EF_{s,i}$ is the emission rate at standard conditions; $\mu\text{g}/(\text{g}\cdot\text{h})$; EF_i is the emission rate under the real environment of VOC_i; and $\mu\text{g}/(\text{g}\cdot\text{h})$, $\gamma_{P,i}$, and $\gamma_{T,i}$ are dimensionless activity factors which correct for light and temperature conditions, respectively.

The PAR correction factor $\gamma_{P,i}$ is calculated as follows.

$$\gamma_{P,i} = (1 - \text{LDF}_i) + \text{LDF}_i \times C_L \quad (\text{S2})$$

where LDF_i is the light-dependent fraction; it is 1 for isoprene; 0.6 for myrcene, sabinene, and α -pinene; 0.2 for limonene, 3-carene, and β -pinene; 0.8 for trans- β -ocimene; 0.4 for other monoterpenes; 0.5 for sesquiterpenes; and 0.2 for other VOCs. C_L is the light-dependent activity factor, calculated as Equation (S3).

$$C_L = \frac{\alpha C_{L1} L}{\sqrt{1 + \alpha^2 L^2}} \quad (\text{S3})$$

where L is the PAR, $\mu\text{mol}/(\text{m}^2\cdot\text{s})$; α is 0.0027; and C_{L1} is the empirical constant, 1.006. The temperature-correction factor $\gamma_{T,i}$ is calculated as follows.

$$\gamma_{T,i} = (1 - \text{LDF}_i) \gamma + \text{LDF}_i \times C_T \quad (\text{S4})$$

where LDF_i is the light-dependent fraction; γ is calculated as Equation (S6); and C_T is the temperature-dependent activity factor, calculated as follows.

$$C_T = \frac{\exp\left[\frac{C_{T1}(T - T_s)}{RT_s T}\right]}{\left\{1 + \exp\left[\frac{C_{T2}(T - T_M)}{RT_s T}\right]\right\}} \quad (\text{S5})$$

where T is the leaf temperature, K; T_s is the leaf temperature at standard conditions, and it is 303 K; R is 8.314 J/(K·mol); C_{T1} is the empirically determined coefficient, and it is 95000 J/mol for isoprene, 80000 J/mol for monoterpene, 130000 J/mol for sesquiterpene, and 80000 J/mol for other VOCs; C_{T2} is 230000 J/mol; and T_M is 314 K.

$$\gamma = \exp[\beta(T - T_s)] \quad (\text{S6})$$

where β is the empirical constant, and it is 0.13 for isoprene, 0.1 for monoterpene, 0.17 for sesquiterpene, and 0.1 for other VOCs; T is the leaf temperature, K; and T_s is the leaf temperature at standard conditions, 303 K.

Table S1. Profile of pure standard samples, detection limits, analysis precision, and MIR and FAC values for each compound.

Compound	Classification	Detection limits ($\mu\text{g}/\text{m}^3$)	Precision (%)	MIR (g O ₃ /g VOCs)	FAC (%)
Isoprene	Isoprene	0.21	4	10.61	2
Tricyclene	Monoterpene	0.03	4	4.04	30
α -Pinene	Monoterpene	0.42	9	4.51	30
Camphene	Monoterpene	0.18	5	4.51	30
Sabinene	Monoterpene	0.99	10	4.19	30
β -Pinene	Monoterpene	0.68	8	3.52	30
Myrcene	Monoterpene	0.18	4	4.04	30
α -Phellandrene	Monoterpene	0.24	5	4.04	30
3-Carene	Monoterpene	0.25	4	3.24	30
α -Terpiene	Monoterpene	0.18	4	4.04	30
Limonene	Monoterpene	0.2	4	4.55	30
cis- β -Ocimene	Monoterpene	0.16	5	4.04	30
trans- β -Ocimene	Monoterpene	0.05	4	4.04	30
γ -Terpinene	Monoterpene	0.17	4	4.04	30
Terpinolene	Monoterpene	0.19	4	6.36	30
Isolongifolene	Sesquiterpene	0.07	5	1.71	18
Longifolene	Sesquiterpene	0.05	5	1.71	18
α -Cedrene	Sesquiterpene	0.07	5	1.71	18
β -Caryophyllene	Sesquiterpene	0.05	4	1.71	18
Aromadendrene	Sesquiterpene	0.15	7	1.71	18
α -Farnesene	Sesquiterpene	0.09	3	1.71	18
Cyclopentane	Alkane	0.18	10	2.39	4
2,2-Dimethylbutane	Alkane	0.14	8	1.17	0
2,3-Dimethylbutane	Alkane	0.39	5	0.97	0
2,4-Dimethylpentane	Alkane	0.52	7	1.55	0.06
2,3-Dimethylpentane	Alkane	0.31	8	1.34	0.06
3-Methylhexane	Alkane	0.29	7	1.61	0.06
n-Heptane	Alkane	0.28	10	1.07	0.06
2,3,4-Trimethylpentane	Alkane	0.44	15	1.03	0.73
2-Methylheptane	Alkane	0.37	10	1.07	0.5
3-Methylheptane	Alkane	0.42	10	1.24	0.5
n-Octane	Alkane	0.48	8	0.9	0.06
Methylcyclopentane	Alkane	0.43	8	2.19	0.17
3-Methylpentane	Alkane	0.42	13	1.8	0.17
n-Hexane	Alkane	0.2	9	1.24	0
2,2,4-Trimethylpentane	Alkane	0.19	9	1.26	0.73
n-Nonane	Alkane	0.26	13	0.78	1.5
n-Decane	Alkane	0.25	14	0.68	2
n-Undecane	Alkane	0.85	8	0.61	2.5
Dodecane	Alkane	0.31	10	0.55	3
Methylcyclohexane	Alkane	0.4	8	1.7	2.7
Cyclohexane	Alkane	0.41	6	1.25	0.17
1-Hexene	Alkene	0.34	3	5.49	-
1-Pentene	Alkene	0.88	7	7.21	-
trans-2-Pentene	Alkene	0.26	5	10.56	-
cis-2-Pentene	Alkene	0.33	15	10.38	-
Benzene	Aromatic	0.33	14	0.72	2

Toluene	Aromatic	0.46	10	4	5.4
Ethylbenzene	Aromatic	0.35	9	3.04	5.4
m-Xylene	Aromatic	0.72	14	9.75	4.7
p-Xylene	Aromatic	0.72	14	5.84	1.6
o-Xylene	Aromatic	0.35	9	7.64	5
n-Propylbenzene	Aromatic	0.27	5	2.03	1.6
Styrene	Aromatic	0.25	5	1.73	5.7
iso-Propylbenzene	Aromatic	0.32	7	2.52	4
m-Ethyltoluene	Aromatic	0.36	5	7.39	6.3
p-Ethyltoluene	Aromatic	0.33	13	4.44	2.5
1,3,5-Trimethylbenzene	Aromatic	0.36	13	11.76	2.9
o-Ethyltoluene	Aromatic	0.27	5	5.59	5.6
1,2,4- Trimethylbenzene	Aromatic	0.25	4	8.87	2
1,2,3- Trimethylbenzene	Aromatic	0.25	4	11.97	3.6
m-Diethylbenzene	Aromatic	0.23	4	7.1	6.3
p-Diethylbenzene	Aromatic	0.2	4	4.43	6.3

Note: MIR is the maximum incremental reactivity of VOCs. FAC is the aerosol formation coefficient of the VOCs. MIR values are from study [29], FAC values are from studies [30,31].

Table S2. Compound-specific emission rates from the young, mature, and senescent leaves of *Ginkgo biloba*, *Ligustrum lucidum*, and *Forsythia suspensa* (Units: $\mu\text{g}/(\text{g}\cdot\text{h})$; ND: not detected).

Emission rate	<i>Ginkgo biloba</i>			<i>Ligustrum lucidum</i>			<i>Forsythia suspensa</i>		
	Young leaves	Mature leaves	Senescent leaves	Young leaves	Mature leaves	Senescent leaves	Young leaves	Mature leaves	Senescent leaves
Isoprene	0.0071±0.0 017	0.0068±0.0 03	0.0130±0.0 023	0.0592±0.01 42	0.0086±0.00 22	0.0113±0.00 26	0.1319±0.0 167	0.0205±0.0 058	0.0118±0.0 023
Tricyclene	0.2768±0.1 190	0.0004±0.0 001	0.0004±0.0 001	0.2343±0.08 12	0.001±0.000 4	0.0022±0.00 15	0.3723±0.1 353	0.0006±0.0 001	0.0007±0.0 002
α -Pinene	0.0010±0.0 001	0.2506±0.0 024	0.1019±0.0 222	0.0261±0.01 40	0.2175±0.00 80	0.7232±0.19 07	0.0032±0.0 004	0.422±0.00 4	0.2645±0.0 902
Camphene	0.0005±0.0 002	0.0017±0.0 005	0.0043±0.0 005	0.0006±0.00 02	0.0048±0.00 18	0.0251±0.01 11	0.004±0.00 12	0.0033±0.0 006	0.0104±0.0 034
Sabinene	0.1230±0.0 545	0.4741±0.0 001	ND	0.0775±0.00 01	0.4094±0.01 67	0.2201±0.00 01	0.1652±0.0 554	0.7911±0.0 401	ND
β -Pinene	0.0012±0.0 001	0.4297±0.0 033	0.0996±0.0 009	0.0004±0.00 03	0.3707±0.01 39	0.1749±0.03 36	0.0049±0.0 027	0.7229±0.0 083	0.0991±0.0 248
Myrcene	0.7300±0.3 138	0.3788±0.0 039	0.1462±0.0 011	0.6249±0.22 58	0.3267±0.01 24	0.0861±0.00 90	0.9673±0.3 202	0.6370±0.0 068	0.1139±0.0 079
α -Phellandrene	0.0014±0.0 010	0.2697±0.0 029	0.0384±0.0 093	0.0002±0.00 01	0.2333±0.00 84	0.0247±0.00 86	0.0051±0.0 010	0.4545±0.0 049	0.0172±0.0 034
3-Carene	0.0005±0.0 004	0.0002±0.0 001	0.0032±0.0 007	0.0015±0.00 15	0.0052±0.00 31	0.0162±0.00 74	0.0030±0.0 017	0.0003±0.0 001	0.0025±0.0 006
α -Terpiene	0.8603±0.3 591	0.5262±0.0 054	0.5699±0.0 047	0.7310±0.26 72	0.4521±0.01 74	0.3171±0.01 09	1.1131±0.3 712	0.8862±0.0 101	0.4354±0.0 264
Limonene	0.0025±0.0 001	0.2715±0.0 043	0.0632±0.0 105	ND	0.2393±0.00 95	0.0410±0.01 99	0.0094±0.0 032	0.4592±0.0 042	0.0283±0.0 018
cis- β -Ocimene	0.4494±0.1 970	0.1879±0.0 027	ND	0.3715±0.11 93	0.1636±0.00 57	ND	0.6111±0.2 004	0.3173±0.0 032	ND
trans- β -Ocimene	0.3054±0.1 283	0.1229±0.0 011	0.0626±0.0 004	0.2617±0.09 51	0.1076±0.00 42	0.0361±0.00 19	0.4060±0.1 336	0.2065±0.0 023	0.0488±0.0 032
γ -Terpinene	0.8327±0.2 138	ND	0.0009±0.0 003	0.6008±0.00 01	ND	0.0024±0.00 08	1.0825±0.3 689	ND	0.0019±0.0 005

Terpinolene	1.1592±0.2	0.0008±0.0	0.0032±0.0	0.9940±0.36	0.0010±0.00	0.0176±0.00	1.5118±0.5	0.002±0.00	0.0040±0.0
	910	003	012	38	05	70	045	06	006
Isolongifolene	0.4333±0.2	0.0021±0.0	ND	0.3859±0.14	0.0004±0.00	ND	0.5759±0.2	0.0007±0.0	ND
	164	002	ND	20	01	ND	035	001	ND
Longifolene	0.3241±0.1	ND	ND	0.2890±0.10	ND	0.0350±0.01	0.4357±0.1	0.1648±0.0	ND
	604	ND	ND	47	ND	59	491	001	ND
α-Cedrene	0.3846±0.1	0.0503±0.0	ND	0.3426±0.12	0.0436±0.00	ND	0.5114±0.1	0.0833±0.0	ND
	921	009	ND	58	29	ND	811	015	ND
β-Caryophyllene	0.5561±0.1	0.0973±0.0	ND	0.6060±0.21	0.0894±0.01	ND	0.9609±0.2	0.1591±0.0	ND
	328	022	ND	06	03	ND	885	049	ND
Aromadendrene	0.7840±0.0	0.1278±0.0	0.0123±0.0	0.5049±0.21	0.1131±0.00	0.0050±0.00	0.7104±0.2	0.2173±0.0	0.0063±0.0
	745	029	018	11	77	07	516	047	008
α-Farnesene	0.6824±0.3	0.0873±0.0	ND	0.6435±0.26	0.0748±0.00	ND	0.9238±0.3	0.1406±0.0	ND
	692	032	ND	85	46	ND	307	025	ND
Cyclopentane	ND	0.0048±0.0	0.0042±0.0	ND	0.0212±0.00	ND	ND	0.0326±0.0	ND
	ND	012	009	ND	27	ND	ND	082	ND
2,2-Dimethylbutane	ND	ND	0.0512±0.0	ND	0.0118±0.00	0.0159±0.00	ND	ND	0.0361±0.0
	ND	ND	081	ND	66	61	ND	ND	044
2,3-Dimethylbutane	ND	0.0639±0.0	ND	ND	0.0514±0.04	0.0003±0.00	ND	0.0555±0.0	ND
	ND	001	ND	ND	47	01	ND	028	ND
2,4-Dimethylpentane	ND	0.0587±0.0	0.0248±0.0	ND	0.0106±0.00	0.0284±0.01	ND	0.1474±0.0	0.0519±0.0
	ND	068	081	ND	28	06	ND	062	083
2,3-Dimethylpentane	ND	ND	ND	ND	0.0183±0.00	0.0606±0.02	ND	ND	0.0094±0.0
	ND	ND	ND	ND	75	61	ND	ND	019
3-Methylhexane	ND	ND	ND	ND	ND	0.1217±0.00	ND	ND	ND
	ND	ND	ND	ND	ND	01	ND	ND	ND
n-Heptane	ND	ND	ND	ND	ND	ND	ND	0.1852±0.0	ND
	ND	ND	ND	ND	ND	ND	ND	115	ND
2,3,4-Trimethylpentane	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylheptane	ND	ND	ND	ND	ND	ND	0.0701±0.0	ND	ND
	ND	ND	ND	ND	ND	ND	001	ND	ND
3-Methylheptane	ND	0.0664±0.0	ND	ND	ND	0.0068±0.00	ND	0.1095±0.0	ND
	ND	135	ND	ND	ND	04	ND	131	ND

n-Octane	0.0712±0.0155	ND	ND	ND	0.0872±0.0094	ND	0.0426±0.0001	ND	ND
Methylcyclopentane	0.1278±0.0585	0.0190±0.0001	ND	ND	0.0077±0.0059	0.0119±0.0001	0.1636±0.0474	0.0297±0.0057	0.0029±0.0007
3-Methylpentane	0.0318±0.0001	ND	0.0052±0.0013	ND	0.0018±0.0004	0.0079±0.0022	ND	0.0051±0.0017	0.0199±0.0036
n-Hexane	ND	0.0230±0.0117	ND	ND	0.0442±0.0134	ND	ND	0.0807±0.0188	ND
2,2,4-Trimethylpentane	ND	0.0056±0.0001	ND	0.0115±0.0001	0.0032±0.0013	0.0254±0.0017	ND	ND	ND
n-Nonane	ND	0.0026±0.0019	ND	ND	0.0005±0.0002	ND	ND	ND	ND
n-Decane	0.3090±0.0639	0.0055±0.0020	ND	ND	ND	ND	0.2587±0.0001	0.0077±0.0012	0.0325±0.0001
n-Undecane	0.4382±0.0638	0.0079±0.0025	ND	ND	ND	ND	0.5608±0.1916	0.0127±0.0005	0.0546±0.0001
Dodecane	0.9658±0.0001	ND	ND	0.7227±0.3162	ND	ND	0.8322±0.2589	0.0032±0.0001	ND
Methylcyclohexane	ND	0.0095±0.0065	ND	ND	ND	ND	1.3156±0.3891	ND	ND
Cyclohexane	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-Hexene	ND	ND	0.0006±0.0002	ND	ND	0.0019±0.0005	ND	0.0135±0.0001	0.0010±0.0003
1-Pentene	ND	0.0048±0.0012	0.0042±0.0009	ND	0.0212±0.0027	ND	ND	0.0326±0.0082	ND
trans-2-Pentene	0.6930±0.0001	ND	ND	ND	ND	ND	ND	0.1572±0.0001	ND
cis-2-Pentene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	0.0185±0.0032	ND	ND	0.0075±0	0.0056±0.0012	ND	0.0141±0.0005	ND
Ethylbenzene	0.1117±0.0012	0.0154±0.0032	ND	0.0647±0.0001	0±0	0±0	0.1309±0.0491	0.0357±0.0009	ND

[illegible]

Table S3. Changes in VOC emission rates between leaves of different ages for *Ginkgo biloba*, *Ligustrum lucidum*, and *Forsythia suspensa* (Compared with the previous growth stage) (Units: %).

Plant	Compound	Young leaves	Mature leaves	Senescent leaves
<i>Ginkgo biloba</i>	Total VOCs	—	−68.29	−69.23
	Isoprene	—	−4.23	91.10
	Monoterpenes	—	−38.51	−62.11
	Sesquiterpenes	—	−88.47	−96.63
	Other VOCs	—	−85.79	−83.37
<i>Ligustrum lucidum</i>	Total VOCs	—	−62.79	−35.16
	Isoprene	—	−85.55	31.37
	Monoterpenes	—	−36.22	−33.17
	Sesquiterpenes	—	−88.41	−87.55
	Other VOCs	—	−83.90	9.20
<i>Forsythia suspensa</i>	Total VOCs	—	−53.64	−82.36
	Isoprene	—	−84.46	−42.63
	Monoterpenes	—	−22.96	−78.91
	Sesquiterpenes	—	−81.40	−99.18
	Other VOCs	—	−70.63	−85.25

Table S4. Changes in VOCs' emission composition between leaves of different ages for *Ginkgo biloba*, *Ligustrum lucidum*, and *Forsythia suspensa* (Compared with the previous growth stage) (Units: %).

Plant	Compound	Young leaves	Mature leaves	Senescent leaves
<i>Ginkgo biloba</i>	Isoprene	—	0.12	0.90
	Monoterpenes	—	36.12	17.26
	Sesquiterpenes	—	−16.30	−8.29
	Other VOCs	—	−19.82	−8.97
<i>Ligustrum lucidum</i>	Isoprene	—	−0.43	0.28
	Monoterpenes	—	33.84	2.49
	Sesquiterpenes	—	−22.71	−8.30
	Other VOCs	—	−11.13	5.81
<i>Forsythia suspensa</i>	Isoprene	—	−0.57	0.65
	Monoterpenes	—	27.61	13.55
	Sesquiterpenes	—	−16.10	−10.28
	Other VOCs	—	−11.51	−3.26

Table S5. Changes in OFP between leaves of different ages for *Ginkgo biloba*, *Ligustrum lucidum*, and *Forsythia suspensa* (Compared with the previous growth stage) (Units: %).

Plant	Compound	Young leaves	Mature leaves	Senescent leaves
<i>Ginkgo biloba</i>	Total VOCs	—	−67.76	−65.28
	Isoprene	—	−4.23	91.10
	Monoterpenes	—	−45.68	−62.51
	Sesquiterpenes	—	−88.47	−96.63
	Other VOCs	—	−92.04	−85.27
<i>Ligustrum lucidum</i>	Total VOCs	—	−62.01	−32.13
	Isoprene	—	−85.55	31.37
	Monoterpenes	—	−43.23	−30.67
	Sesquiterpenes	—	−88.41	−87.55
	Other VOCs	—	−93.03	−10.83
<i>Forsythia suspensa</i>	Total VOCs	—	−50.88	−81.51
	Isoprene	—	−84.46	−42.63
	Monoterpenes	—	−30.65	−78.76
	Sesquiterpenes	—	−81.40	−99.18
	Other VOCs	—	−74.06	−92.74

Table S6. Changes in OFP contributions between leaves of different ages for *Ginkgo biloba*, *Ligustrum lucidum*, and *Forsythia suspensa* (Compared with the previous growth stage) (Units: %).

Plant	Compound	Young leaves	Mature leaves	Senescent leaves
<i>Ginkgo biloba</i>	Isoprene	—	0.35	2.35
	Monoterpenes	—	34.97	6.87
	Sesquiterpenes	—	−8.12	−4.08
	Other VOCs	—	−27.20	−5.14
<i>Ligustrum lucidum</i>	Isoprene	—	−1.30	0.74
	Monoterpenes	—	29.92	1.94
	Sesquiterpenes	—	−10.96	−3.93
	Other VOCs	—	−17.67	1.25
<i>Forsythia suspensa</i>	Isoprene	—	−1.87	1.82
	Monoterpenes	—	23.23	11.86
	Sesquiterpenes	—	−8.56	−4.98
	Other VOCs	—	−12.80	−8.70

Table S7. Changes in SOAP between leaves of different ages for *Ginkgo biloba*, *Ligustrum lucidum*, and *Forsythia suspensa* (Compared with the previous growth stage) (Units: %).

Plant	Compound	Young leaves	Mature leaves	Senescent leaves
<i>Ginkgo biloba</i>	Total VOCs	—	−54.46	−65.24
	Isoprene	—	−4.23	91.10
	Monoterpenes	—	−38.56	−62.47
	Sesquiterpenes	—	−88.47	−96.63
	Other VOCs	—	−84.49	−87.77
<i>Ligustrum lucidum</i>	Total VOCs	—	−52.52	−37.18
	Isoprene	—	−85.55	31.37
	Monoterpenes	—	−35.48	−33.39
	Sesquiterpenes	—	−88.41	−87.55
	Other VOCs	—	−97.54	−15.78
<i>Forsythia suspensa</i>	Total VOCs	—	−40.41	−80.90
	Isoprene	—	−84.46	−42.63
	Monoterpenes	—	−21.67	−79.06
	Sesquiterpenes	—	−81.40	−99.18
	Other VOCs	—	−78.35	−88.56

Table S8. Changes in SOAP contribution between leaves of different ages for *Ginkgo biloba*, *Ligustrum lucidum*, and *Forsythia suspensa* (Compared with the previous growth stage) (Units: %).

Plant	Compound	Young leaves	Mature leaves	Senescent leaves
<i>Ginkgo biloba</i>	Isoprene	—	0.01	0.06
	Monoterpenes	—	23.64	7.27
	Sesquiterpenes	—	−20.24	−6.20
	Other VOCs	—	−3.40	−1.14
<i>Ligustrum lucidum</i>	Isoprene	—	−0.05	0.02
	Monoterpenes	—	24.51	5.59
	Sesquiterpenes	—	−21.87	−5.66
	Other VOCs	—	−2.59	0.05
<i>Forsythia suspensa</i>	Isoprene	—	−0.07	0.05
	Monoterpenes	—	21.52	8.67
	Sesquiterpenes	—	−18.57	−8.07
	Other VOCs	—	−2.87	−0.66

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